



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

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

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 Wood Doors-L.M. Impact

APPROVAL DOCUMENT: Drawing No.1617 REV B, titled "In-Swing Impact Wood Panel 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 panel glazing 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 # 11-1101.14 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. 14-0303.07
Expiration Date: May 27, 2019
Approval Date: May 01, 2014
Page 1

5/29/14

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's parts drawings and sections (submitted under **11-1101.14 / #09-0212.06**)
2. Drawing No. **1617 REV B**, titled "In-Swing Impact Wood Panel 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.

(Note: The revision consist of updating angle clip masonry screws)

B. TESTS (submitted under 11-1101.14/ #09-0212.06)

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.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

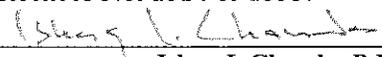
1. Test report No. **ATI-86006.01-106-18 (Rev 2)** dated 12/12/08 and **ATI-86006.02-106-18** 02/05/09 for "Durability of Wood-Based Composite Lumber and panels" per ASTM ASTM D-1761 and ASTM D-4761, issued by Architectural Testing Lab (submitted under **11-1101.14 / #09-0212.06**).

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 **#11-1101.14**)
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 **11-1101.14/ #09-0212.06**)

G. OTHER

1. This NOA **revises & renews** NOA # **11-1101.14**, 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. **14-0303.07**
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/BACKET 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)

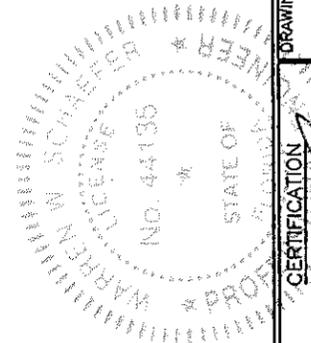
MAX. FRAME WIDTH (IN.)	MAX. FRAME HEIGHT (IN.)	ALLOWABLE PRESSURE	
		POSITIVE (PSF)	NEGATIVE (PSF)
SINGLE DOOR			
51 1/8	120	70	70
41 1/4	99	70	(1) 85
DOUBLE DOOR			
79 1/16	120	70	70
79 1/16	99	70	(1)(2) 85

(1) HIGHER PRESSURE OF -85 PSF IS ONLY APPLICABLE WITH STANDARD SILL (USE OF ADA SILL IS NOT APPLICABLE TO UNITS WITH PRESSURE EXCEEDING +/-70 PSF).
 (2) HIGHER PRESSURE OF -85 PSF IS ONLY APPLICABLE WITH DOUBLE DOORS WHEN THE DOUBLE DOOR MEETING STILES ARE BAR REINFORCED (REF. SECTIONS).

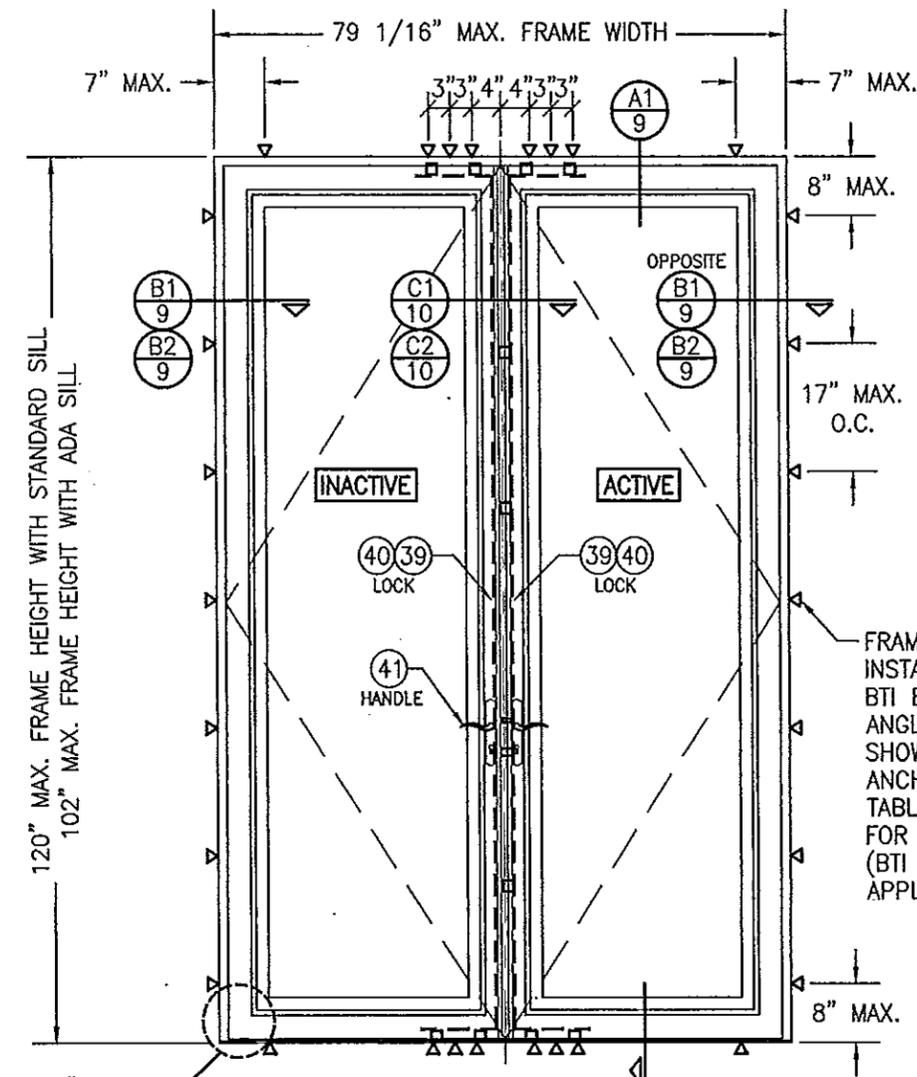
CORNER CONSTRUCTION:

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.

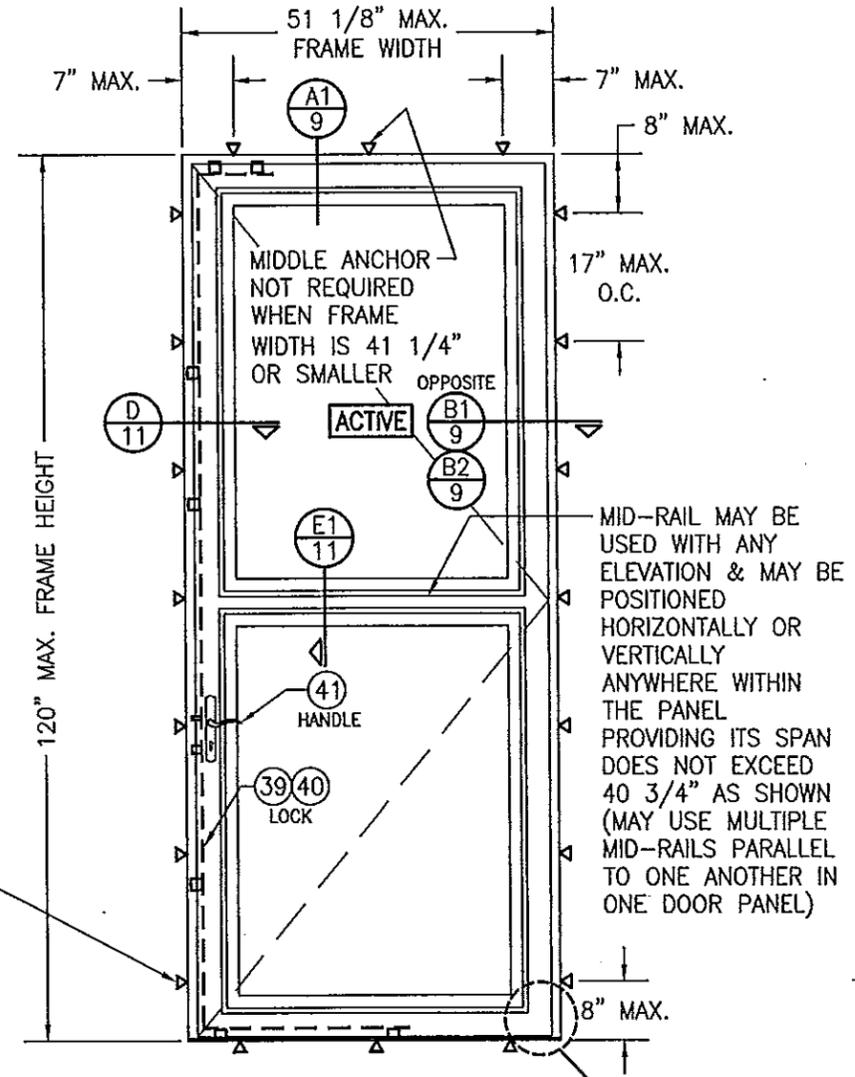
PRODUCT REVISED
 to comply with the Florida Building Code
 Acceptance No. 14-0303.07
 Expiration Date 04/15/2019
 By [Signature]
 Miami Code Product Control



DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
DATE: 10/25/11	DATE: 10/08/08
PLOT: 1-24	
BY: 10/25/11	02/20/14
BY: W.R.M.	W.W.S.
REVISION DESCRIPTION	
NO. A1	B1
NO. A1	B1
DRAWING TITLE: IN-SWING IMPACT WOOD 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	
DRAWING NO. 1617	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"

SEE "CORNER-CONSTRUCTION" DESCRIPTION ON THIS SHEET

SEE "CORNER-CONSTRUCTION" DESCRIPTION ON THIS SHEET

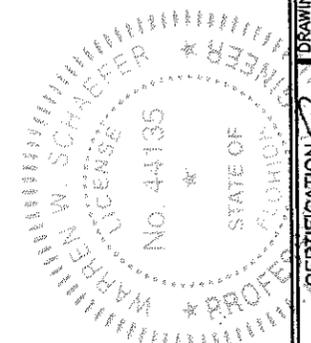
FRAME SCREWS, INSTALLATION CLIPS, BTI BRACKETS OR ANGLE CLIPS WHERE SHOWN. SEE "FRAME ANCHOR REQUIREMENTS TABLE" ON SHEET 1 FOR REQUIREMENTS (BTI BRACKETS NOT APPLICABLE AT SILL).

MID-RAIL MAY BE USED WITH ANY ELEVATION & MAY BE POSITIONED HORIZONTALLY OR VERTICALLY ANYWHERE WITHIN THE 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)

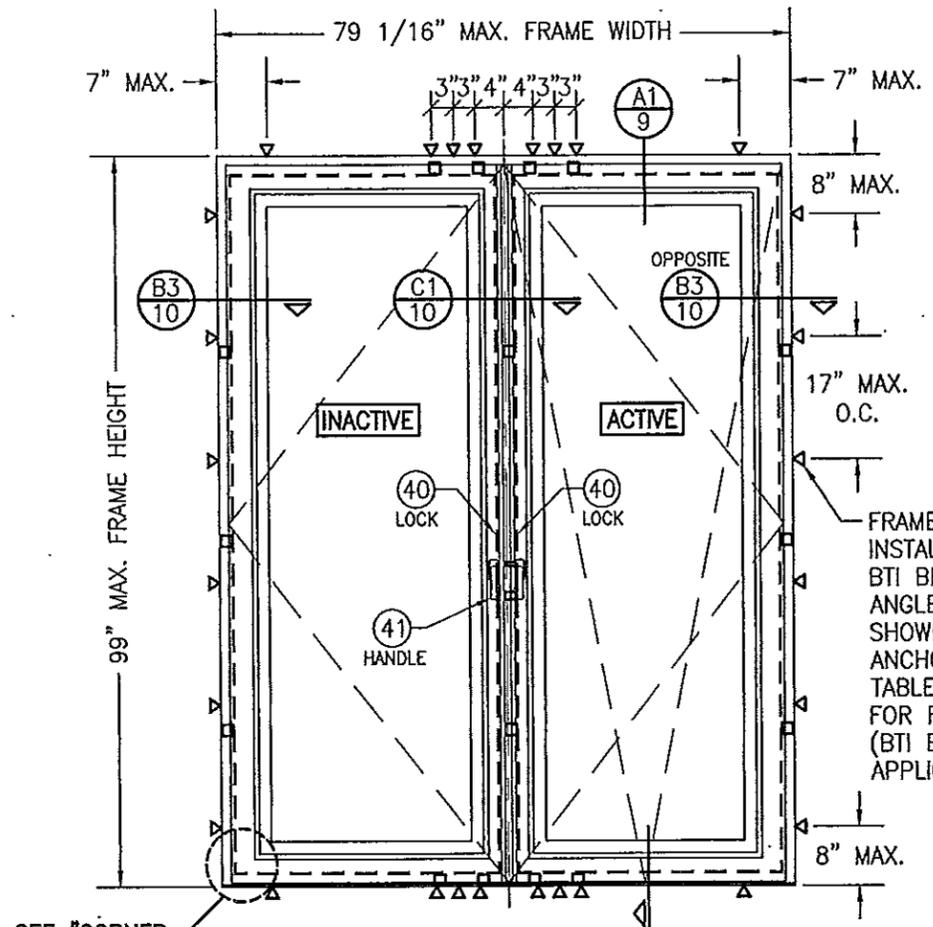
ALLOWABLE DESIGN PRESSURE
SEE PRESSURE TABLE ON SHEET 1

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

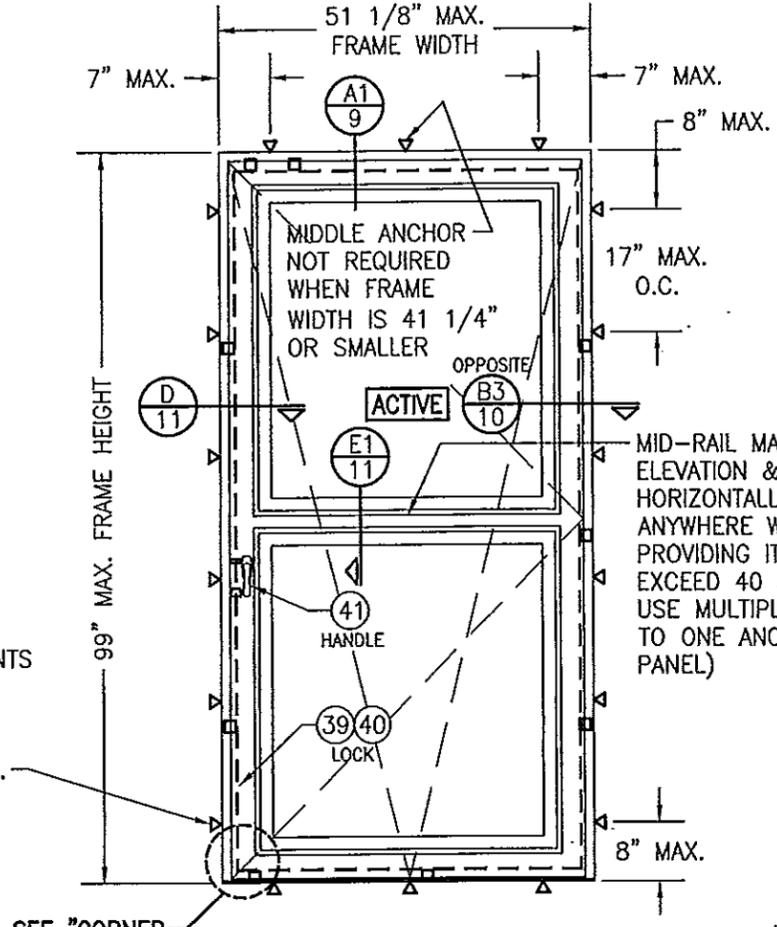
PRODUCT REVISED
to comply with the Florida
Building Code
Acceptance No. 14-0303-07
Expiration Date 5/27/19
By *Warren W. Schaefer*
Miami Dade Product Control



DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1-24		DATE: 10/08/08	
NO.	REVISION	DESCRIPTION	BY
DRAWING TITLE IN-SWING IMPACT WOOD PANEL 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 FEB 20 2014 WARREN W. SCHAEFER P.E. P.E. NO. 44135		DRAWING NO. 1617 REV. B SHEET NO. 2 OF 19	



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



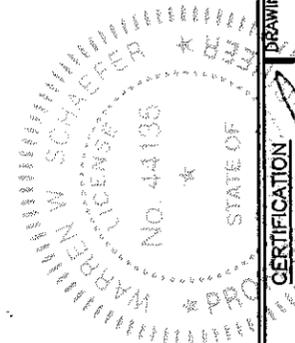
**INTERIOR ELEVATION:
SINGLE RECTANGULAR DOOR
(TURN & TILT CONDITION)**
SCALE: 1/2" = 1'-0"

MID-RAIL MAY BE USED WITH ANY ELEVATION & MAY BE POSITIONED HORIZONTALLY OR VERTICALLY ANYWHERE WITHIN THE 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)

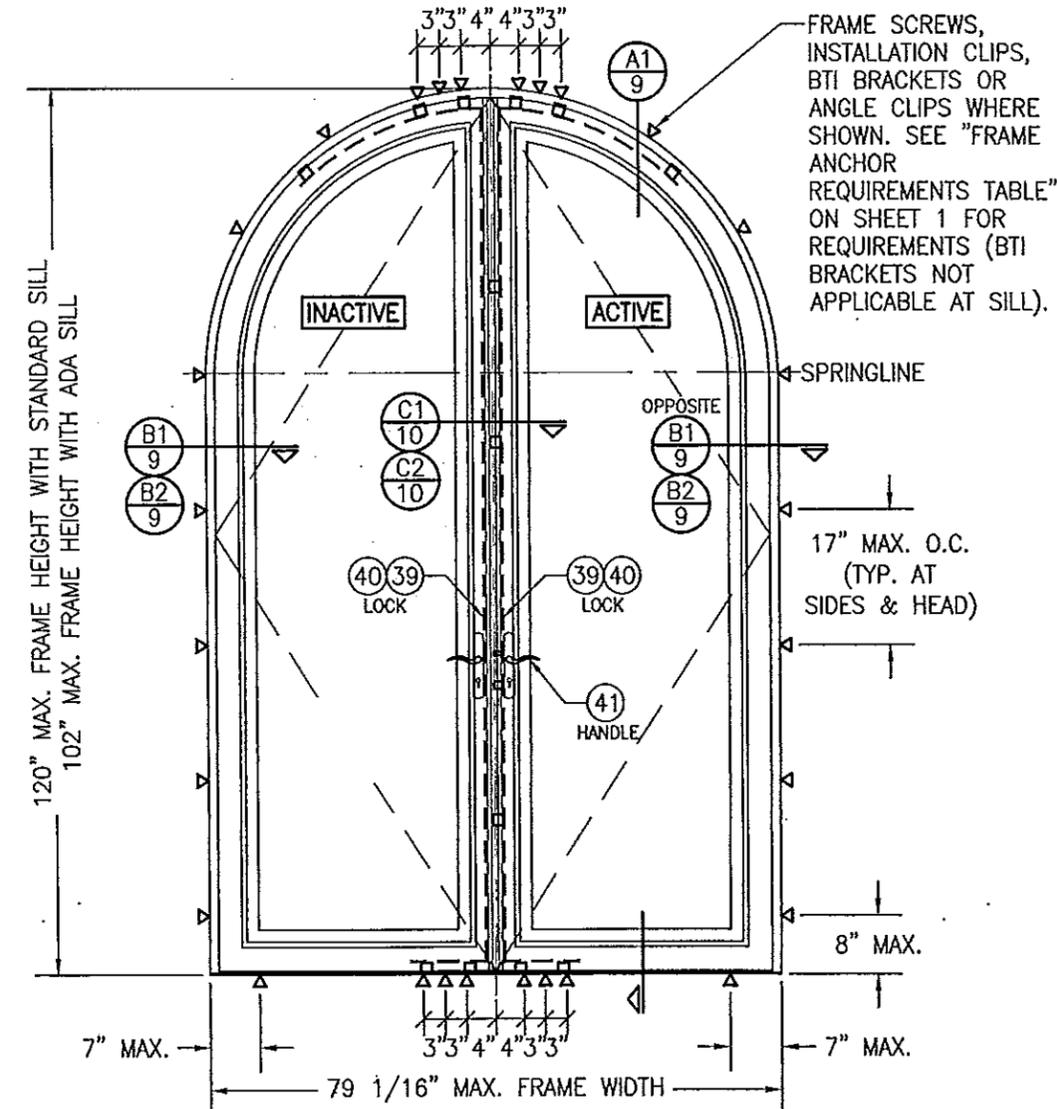
PRODUCT REVISED
As complying with the Florida Building Code
Acceptance No. 14-0303.07
Expiration Date 5/27/19
By Isling L. Chang
Miami Dade Product Control

ALLOWABLE DESIGN PRESSURE
SEE PRESSURE TABLE ON SHEET 1

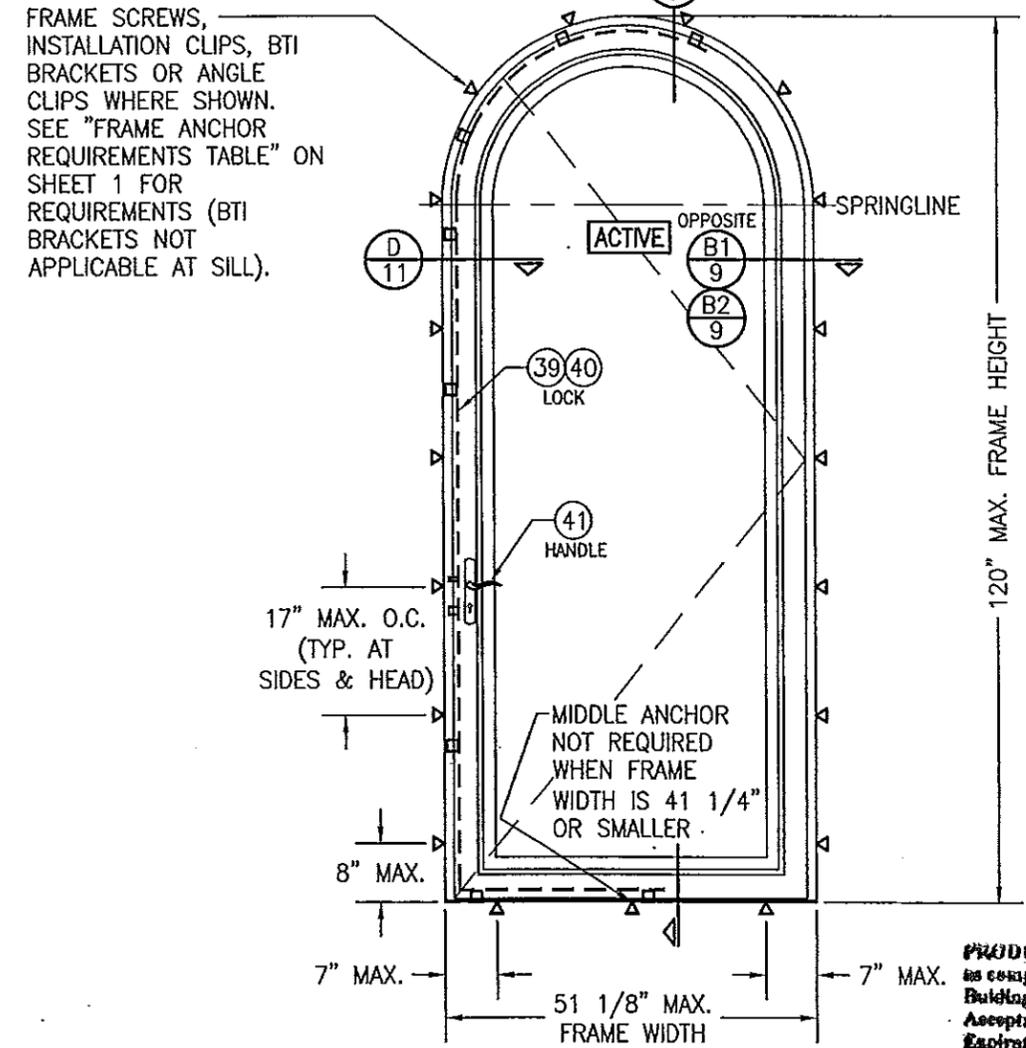
DUE TO HINGE CONDITION VARIATIONS,
HINGES ARE NOT SHOWN IN ELEVATIONS,
SEE SECTIONS & HINGE TABLES FOR
HINGE REQUIREMENTS



DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=24		DATE: 10/08/08	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE IN-SWING IMPACT WOOD PANEL 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 FEB 20 2014 WARREN W. SCHAEFER, P.E. P.E. NO. 44136			
DRAWING NO. 1617		REV. B	
SHEET NO. 3 OF 19			



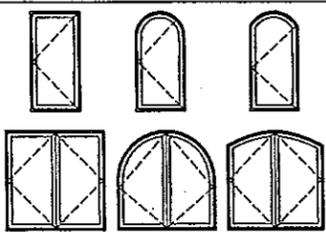
**INTERIOR ELEVATION:
DOUBLE HALF ROUND DOOR
(TURN ONLY CONDITION)**
SCALE: 1/2" = 1'-0"



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

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 14-0303-07
Expiration Date 5/27/19
By [Signature]
Initial Date Product Control

**APPROVED SHAPED
(OPERABLE DOORS)**



- NOTES:**
- OTHER SHAPES MAY APPLY PROVIDING THEY ARE SIMILAR TO THOSE SHOWN & HAVE CORNER CONSTRUCTION AS DESCRIBED IN THIS DRAWING.
 - 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**

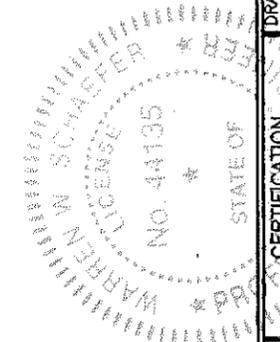
**ANCHOR NOTE: ANCHOR SPACING AT THE HEAD OF
ALL TYPES OF SHAPED DOORS MUST EQUAL THAT
SPECIFIED AT THE SIDES (17" MAX. O.C.)**

NO.	REVISION DESCRIPTION	BY	DATE

DRAWING TITLE
IN-SWING IMPACT WOOD PANEL DOORS

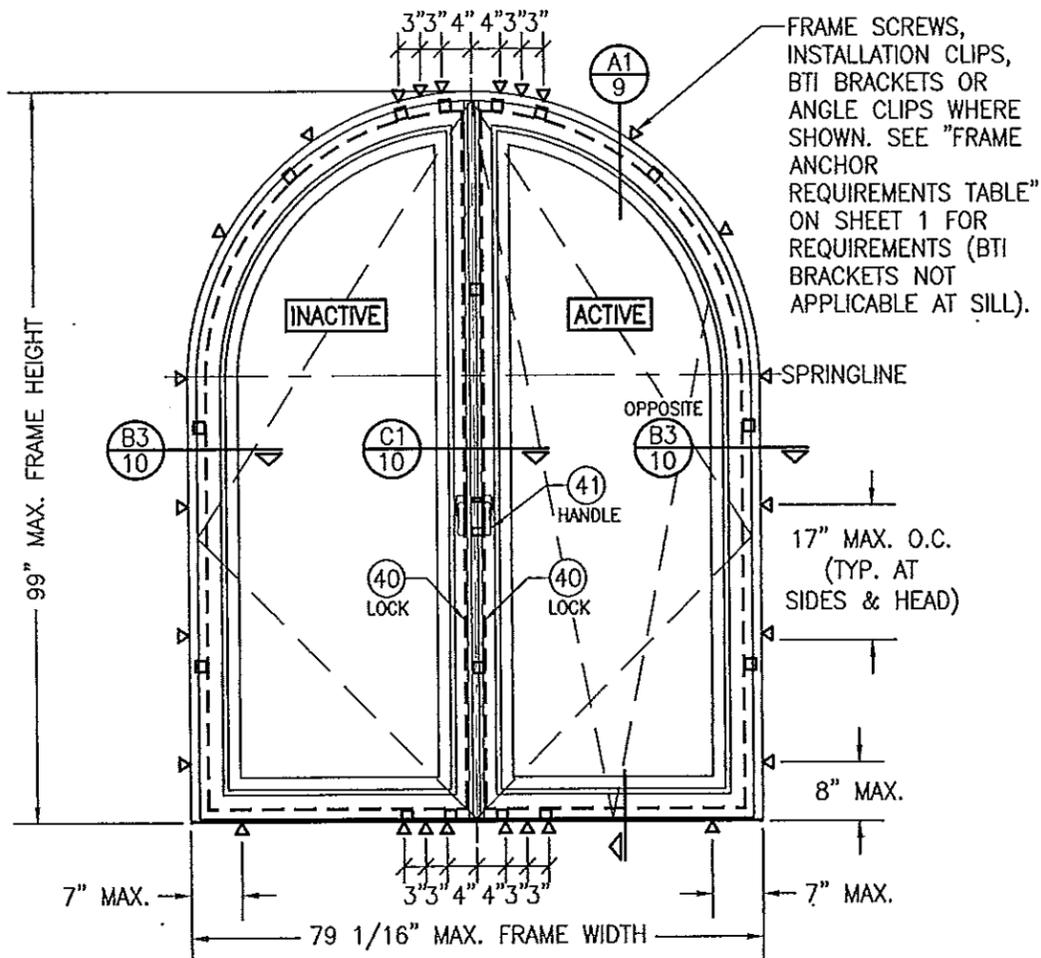
MANUFACTURER
TISCHLER UND SOHN (USA) LTD.
SIX SUBURBAN AVENUE
STAMFORD, CONNECTICUT 06901
203-674-0600

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



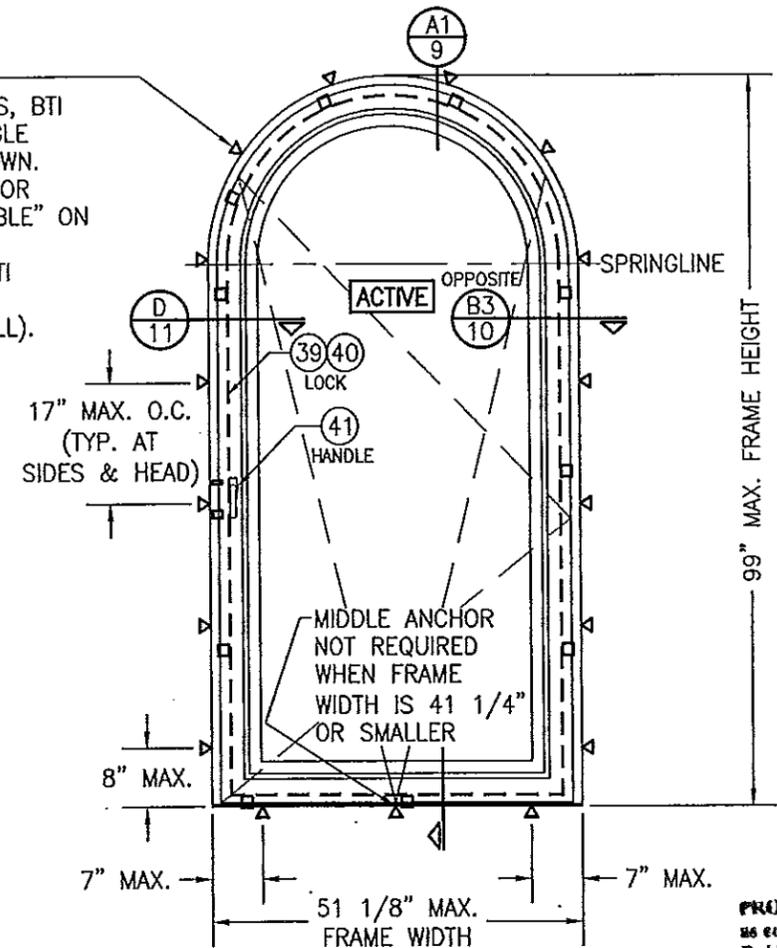
CERTIFICATION
FEB 20 2014
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1-24	DATE: 10/08/08
DATE	
BY	
REVISION DESCRIPTION	
NO.	
DRAWING TITLE IN-SWING IMPACT WOOD PANEL DOORS	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)	MANUFACTURER TISCHLER UND SOHN (USA) LTD.
7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	SIX SUBURBAN AVENUE STAMFORD, CONNECTICUT 06901 203-674-0600
CERTIFICATION FEB 20 2014	REV. B
DRAWING NO. 1617	SHEET NO. 5 OF 19



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

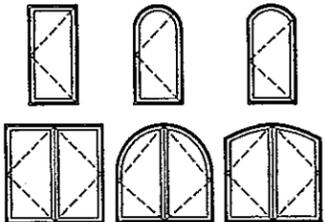
FRAME SCREWS,
INSTALLATION CLIPS, BTI
BRACKETS OR ANGLE
CLIPS WHERE SHOWN.
SEE "FRAME ANCHOR
REQUIREMENTS TABLE" ON
SHEET 1 FOR
REQUIREMENTS (BTI
BRACKETS NOT
APPLICABLE AT SILL).



**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. 14-0303-07
Expiration Date 5/27/19
By Warren W. Schaefer
Miami Door Product Control

**APPROVED SHAPED
(OPERABLE DOORS)**

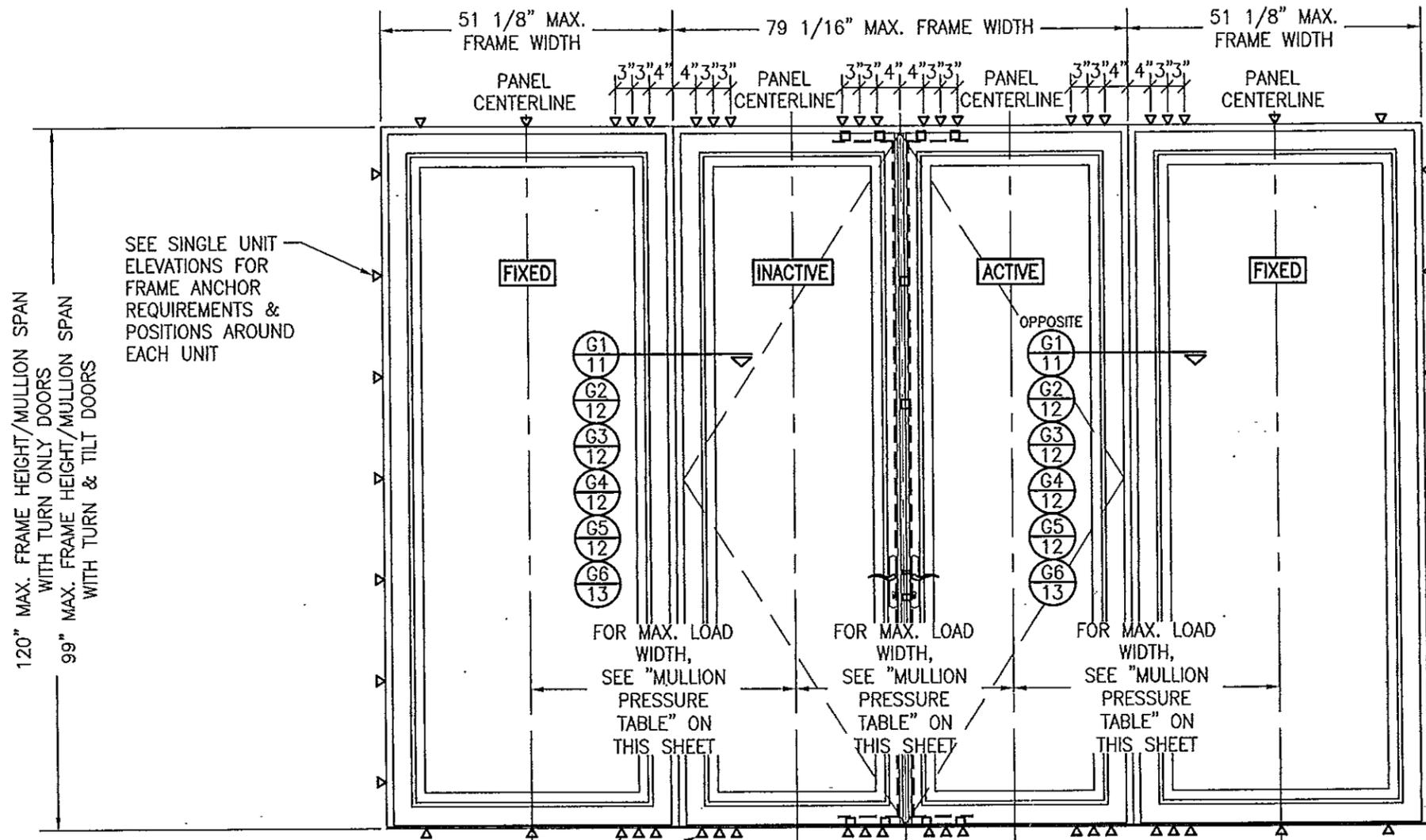


- NOTES:**
- OTHER SHAPES MAY APPLY PROVIDING THEY ARE SIMILAR TO THOSE SHOWN & HAVE CORNER CONSTRUCTION AS DESCRIBED IN THIS DRAWING.
 - ALL SHAPED UNITS MUST FIT INSCRIBED INTO THE ALLOWABLE RECTANGULAR UNITS & BE GOVERNED BY THE ALLOWABLE PRESSURE OF THE RESPECTIVE RECTANGULAR UNIT.

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.)**



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

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

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).

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

MULLION ALLOWABLE DESIGN PRESSURE

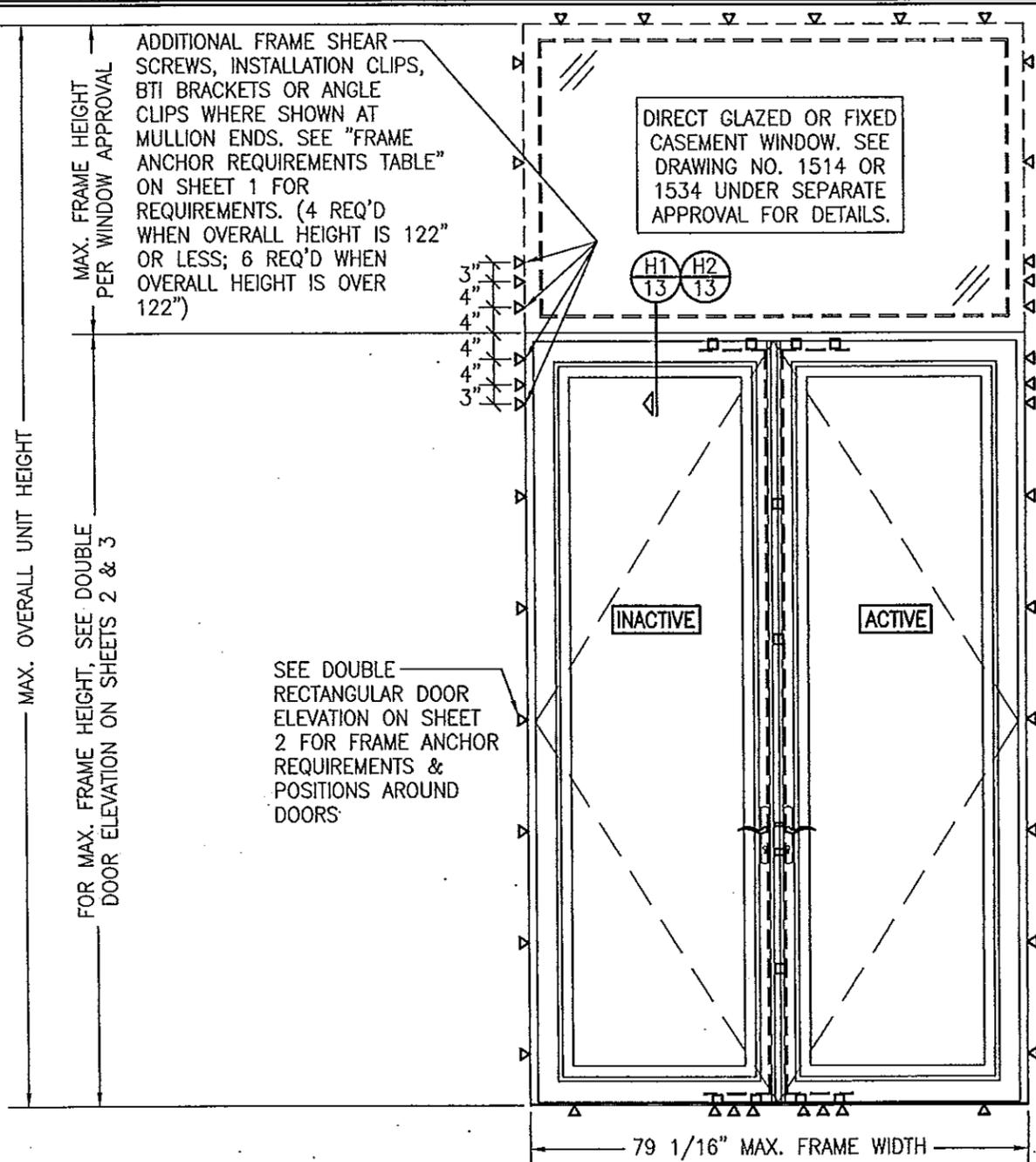
MAXIMUM MULLION SPAN (IN.)	MAXIMUM LOAD WIDTH (IN.)	ALLOWABLE PRESSURE (PSF)	
		POS.	NEG.
120	52	53.8	53.8
	48	58.3	58.3
	44	63.6	63.6
	40	70.0	70.0
	36	70.0	70.0
	32	70.0	70.0
108	52	59.8	59.8
	48	64.8	64.8
	44	70.0	70.0
	40	70.0	70.0
99	52	70.0	75.2
	48	70.0	81.5
	46	70.0	85.0
96	52	70.0	77.5
	48	70.0	84.0
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. 14-0303-07
 Expiration Date 5/27/19
 By: *Isaac L. [Signature]*
 National Door Product Council



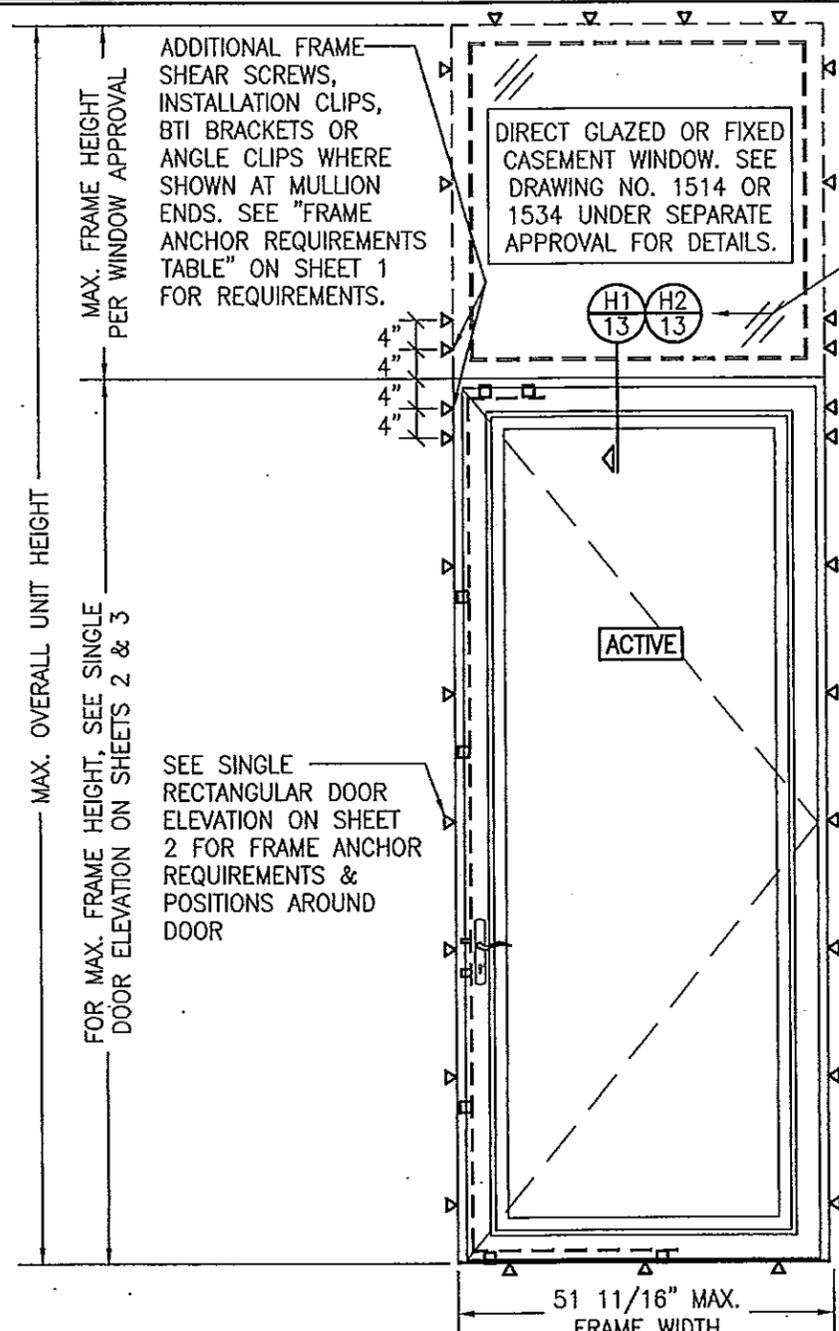
DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1-24	DATE: 10/08/08
DATE	BY
REVISION DESCRIPTION	NO.
DRAWING TITLE IN-SWING IMPACT WOOD PANEL DOORS	
MANUFACTURER TISCHLER UND SOHN (USA) LTD. SIX SUBURBAN AVENUE STAMFORD, CONNECTICUT 06901 203-674-0600	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (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	
DRAWING NO. 1617	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.)	(1) ALLOWABLE PRESSURE	
		POSITIVE (PSF)	NEGATIVE (PSF)
79 1/16	168	70	70
79 1/16	138	70	(1) 85

(1) LESSER OF THE PRESSURES IN THIS TABLE & THOSE FOR THE INDIVIDUAL DOORS SHALL CONTROL.



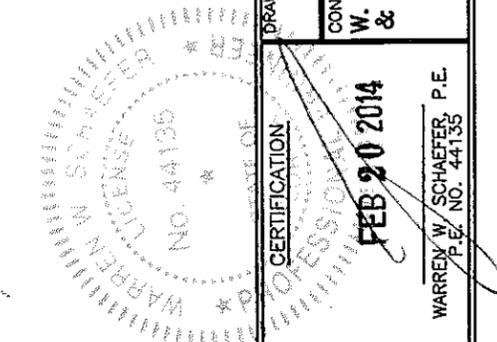
INTERIOR ELEVATION; SINGLE DOOR WITH TRANSOM
 SCALE: 1/2" = 1'-0"
 (SEE SINGLE RECTANGULAR DOOR ELEVATIONS ON SHEETS 2 & 3 FOR DOOR DETAIL NOT SHOWN)

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

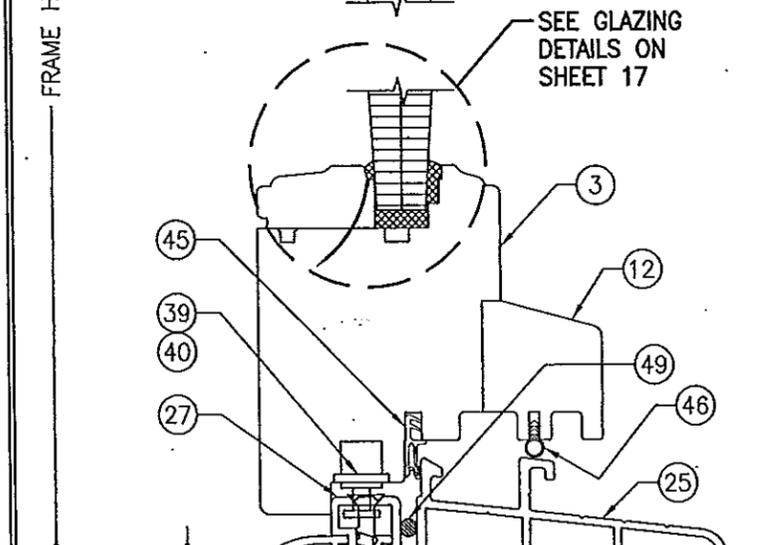
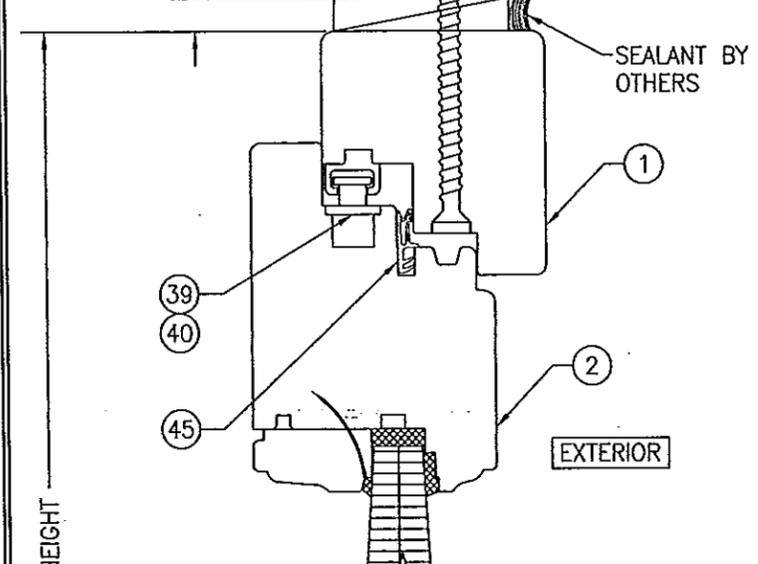
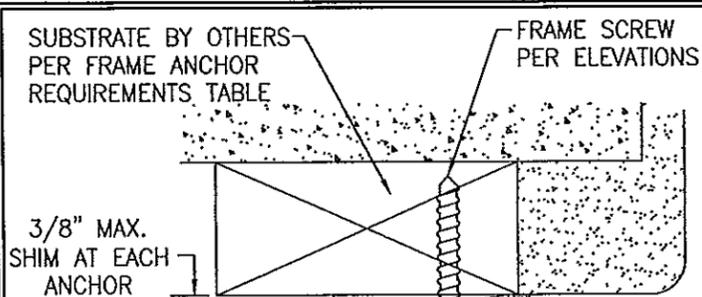
(1) LESSER OF THE PRESSURES IN THIS TABLE & THOSE FOR THE INDIVIDUAL DOORS SHALL CONTROL.

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

PRODUCT REVISED to comply with the Florida Building Code
 Acceptance No. 14-0303-07
 Expiration Date 5/22/19
 By [Signature]
 Manual Date Product Control

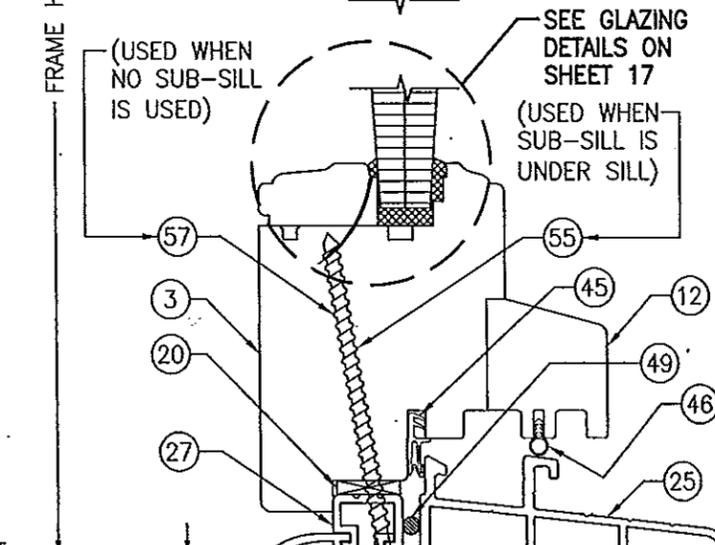
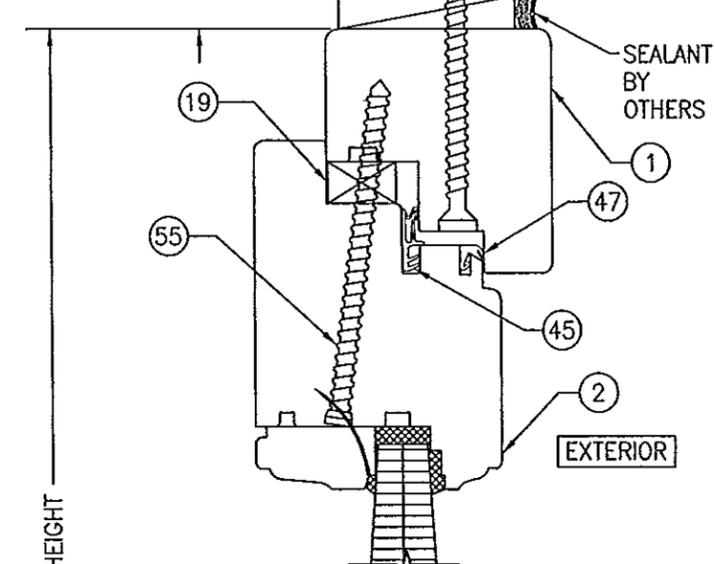
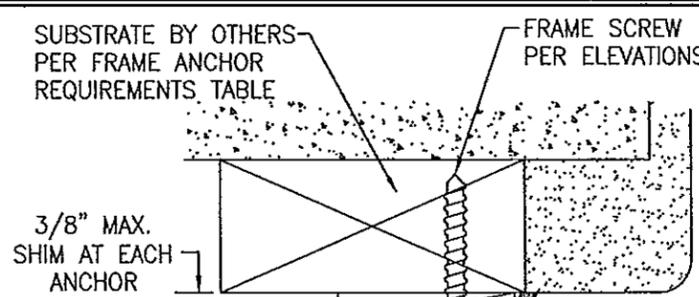


DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1-24	DATE: 10/08/08
NO.	REVISION DESCRIPTION
BY	DATE
DRAWING TITLE IN-SWING IMPACT WOOD PANEL DOORS	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	MANUFACTURER TISCHLER UND SOHN (USA) LTD. SIX SUBURBAN AVENUE STAMFORD, CONNECTICUT 06901 203-674-0600
CERTIFICATION FEB 20 2014	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. 1617	REV. B
SHEET NO. 8 OF 19	



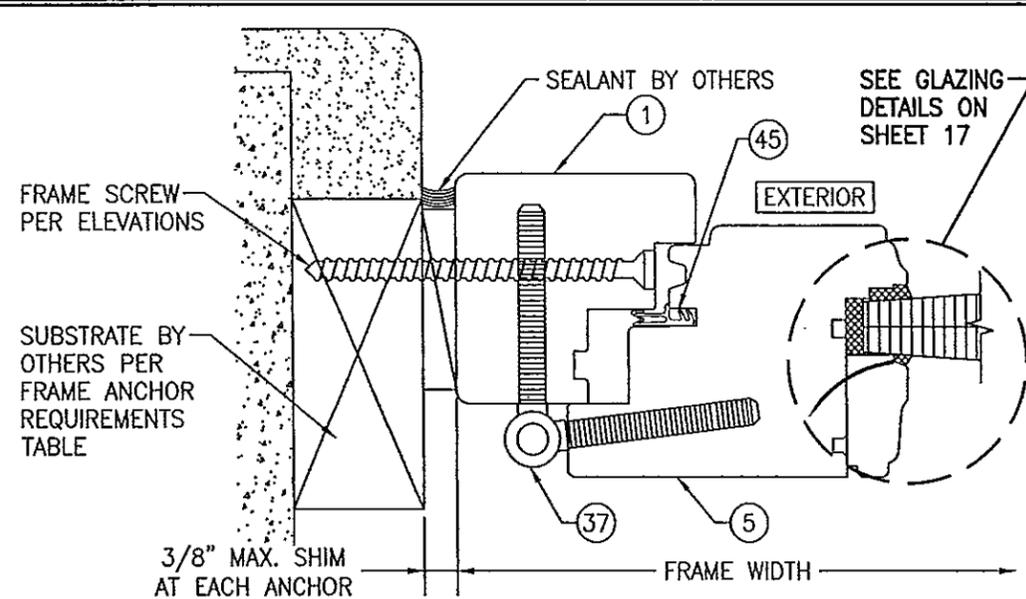
SECTION A1
SCALE: 1/2 FULL

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

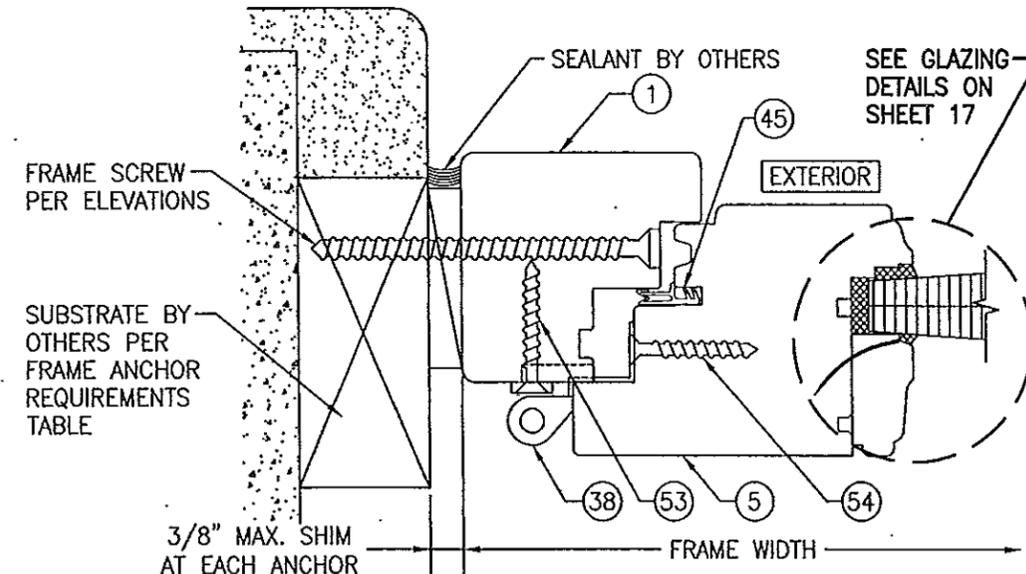


SECTION A2
SCALE: 1/2 FULL

SUBSTRATE BY OTHERS PER "FRAME ANCHOR REQUIREMENTS TABLE" (FOR SILL INSTALLATION NOT SHOWN, SEE ANGLE CLIP & INSTALLATION CLIP SILL DETAILS ON SHEETS 15 & 16.



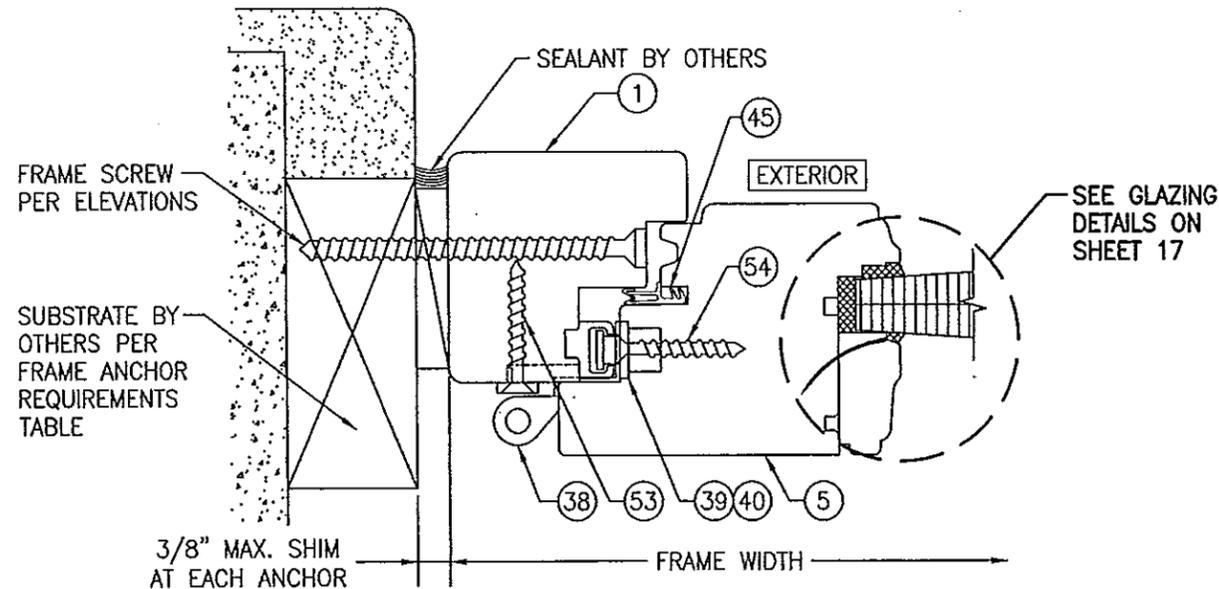
SECTION B1
SCALE: 1/2 FULL
(SCREWED IN HINGE CONDITION)
FRAME SHEAR SCREW INSTALLATION SHOWN. SEE OPTIONAL DETAILS FOR OTHER INSTALLATION CONDITIONS.



SECTION B2
SCALE: 1/2 FULL
(POT HINGE; TURN ONLY CONDITION)
FRAME SHEAR SCREW INSTALLATION SHOWN. SEE OPTIONAL DETAILS FOR OTHER INSTALLATION CONDITIONS.

PRODUCT REVISED to comply with the Florida Building Code
Acceptance No. 14-030307
Expiration Date 5/27/19
By: [Signature]
Product Control

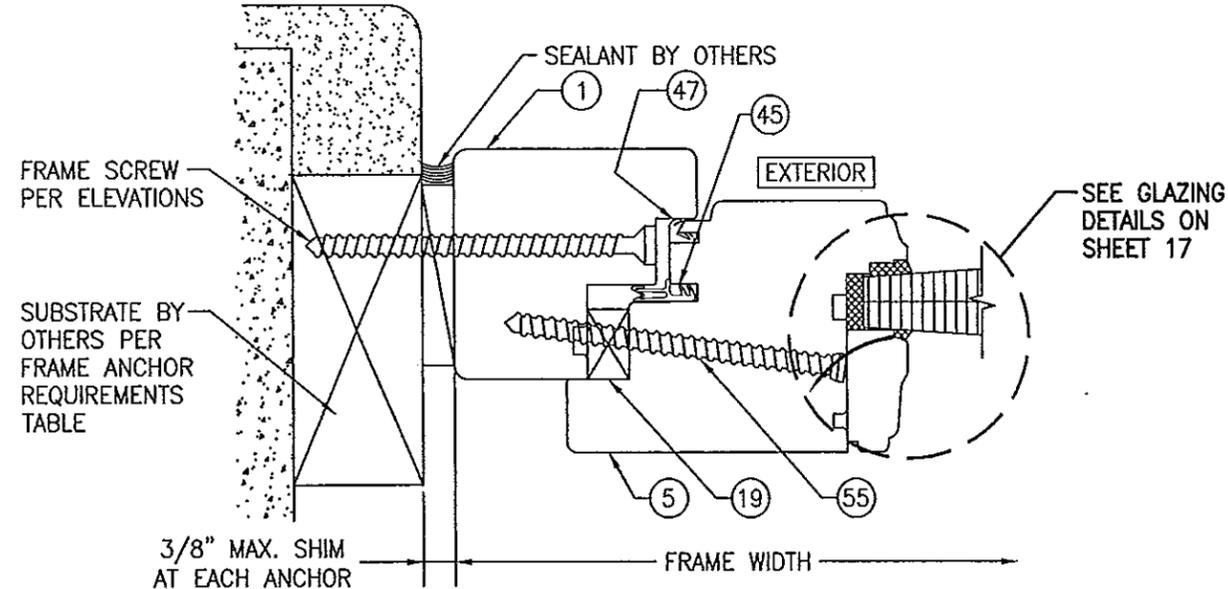
DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 10/08/08
DATE	
BY	
REVISION DESCRIPTION	
NO.	
DRAWING TITLE IN-SWING IMPACT WOOD PANEL DOORS	
MANUFACTURER TISCHLER UND SOHN (USA) LTD. SIX SUBURBAN AVENUE STAMFORD, CONNECTICUT 06901 203-674-0600	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
CERTIFICATION	FEB 20 2014
DRAWING NO. 1617	REV. B
SHEET NO. 9 OF 19	



SECTION B3
SCALE: 1/2 FULL 10

(POT HINGE; TILT CONDITION)

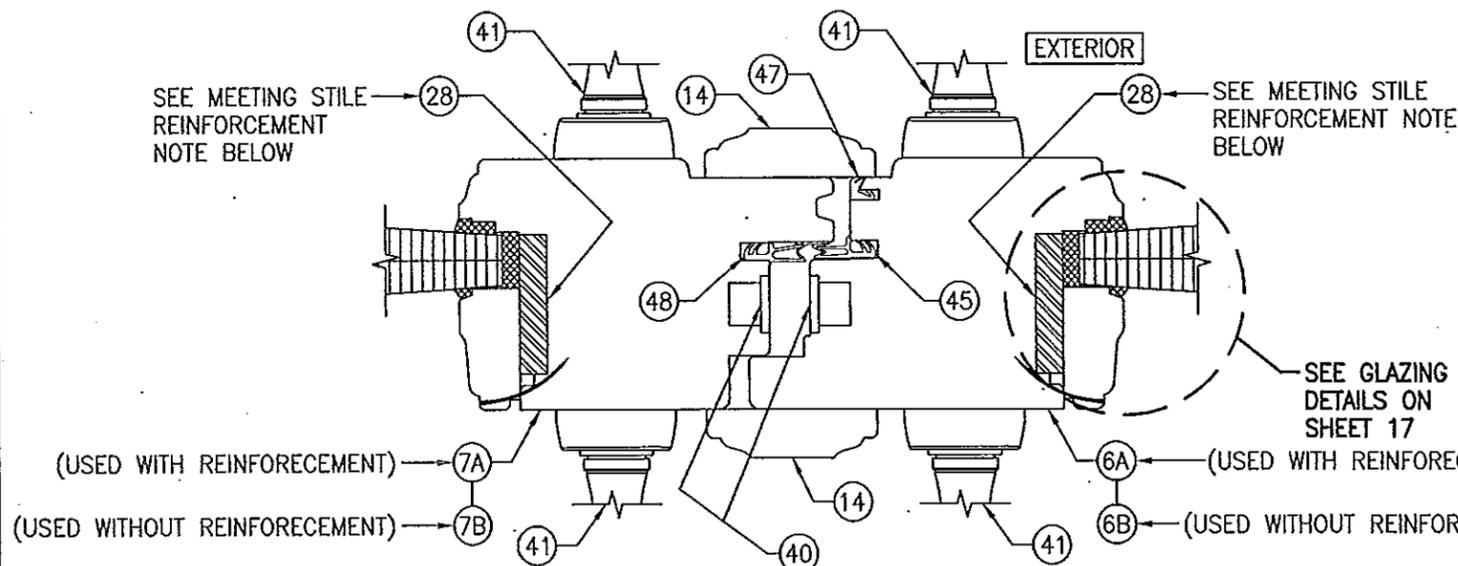
FRAME SHEAR SCREW INSTALLATION SHOWN. SEE OPTIONAL DETAILS FOR OTHER INSTALLATION CONDITIONS.



SECTION B4
SCALE: 1/2 FULL 10

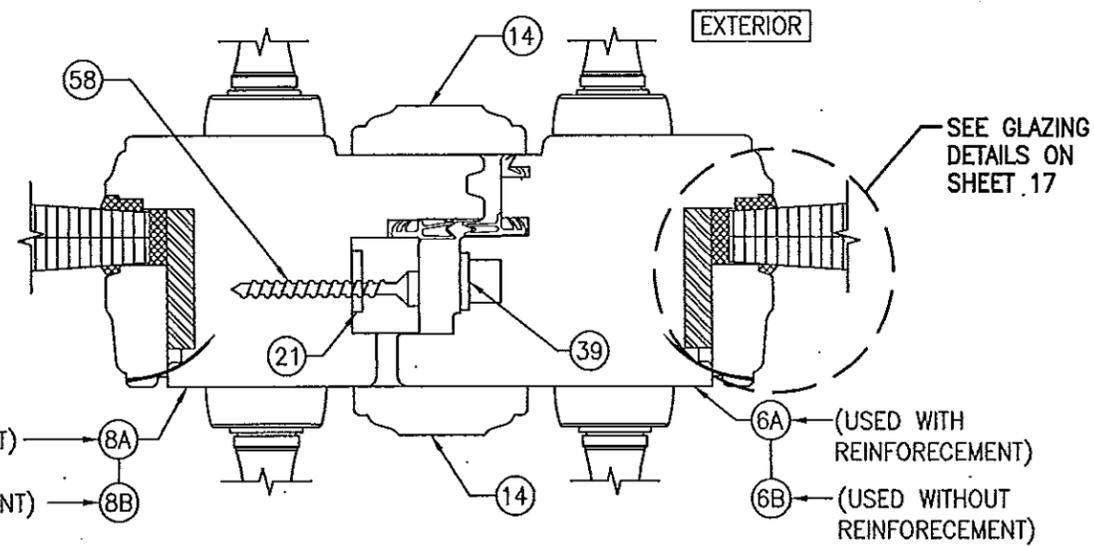
FRAME SHEAR SCREW INSTALLATION SHOWN. SEE OPTIONAL DETAILS FOR OTHER INSTALLATION CONDITIONS.

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 14-0303-C7
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By: [Signature]
Miami Data Product Control



SECTION C1
SCALE: 1/2 FULL 10

MEETING STILE CONDITION WITH SIEGENIA MULTI-POINT LOCK SYSTEM

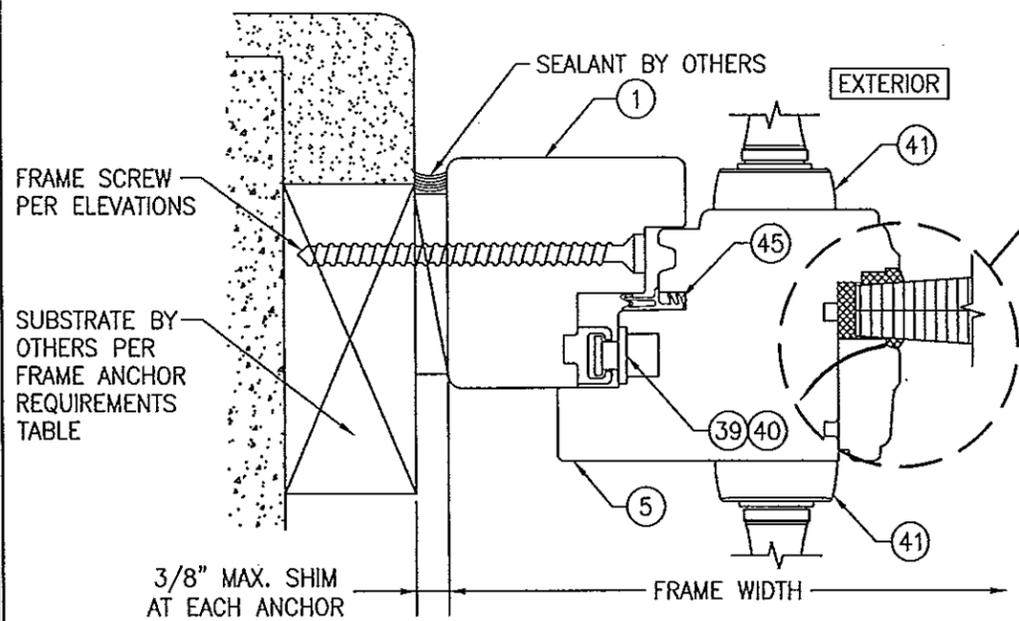


SECTION C2
SCALE: 1/2 FULL 10

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.

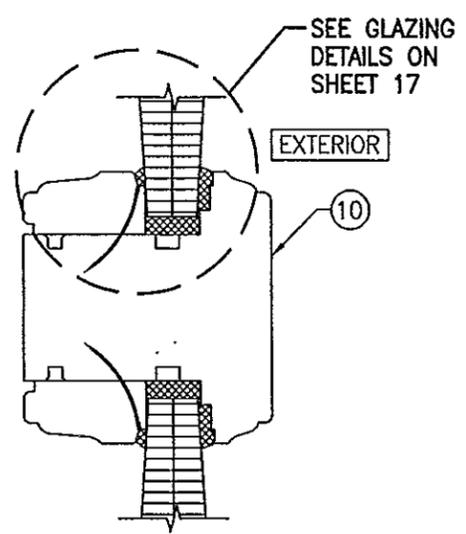
DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 10/08/08
DATE	
BY	
REVISION DESCRIPTION	
NO.	
DRAWING TITLE IN-SWING IMPACT WOOD PANEL DOORS	
MANUFACTURER TISCHLER UND SOHN (USA) LTD. SIX SUBURBAN AVENUE STAMFORD, CONNECTICUT 06901 203-674-0600	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, 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	
DRAWING NO. 1617	REV. B
SHEET NO. 10 OF 19	



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

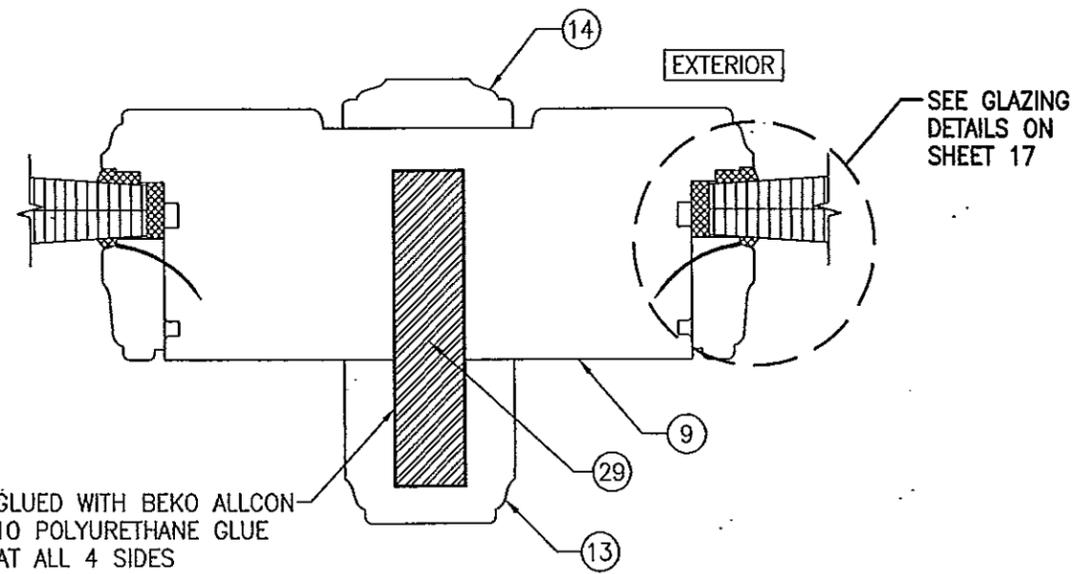
FRAME SCREW INSTALLATION SHOWN. SEE OPTIONAL DETAILS FOR OTHER INSTALLATION CONDITIONS.

SEE GLAZING DETAILS ON SHEET 17

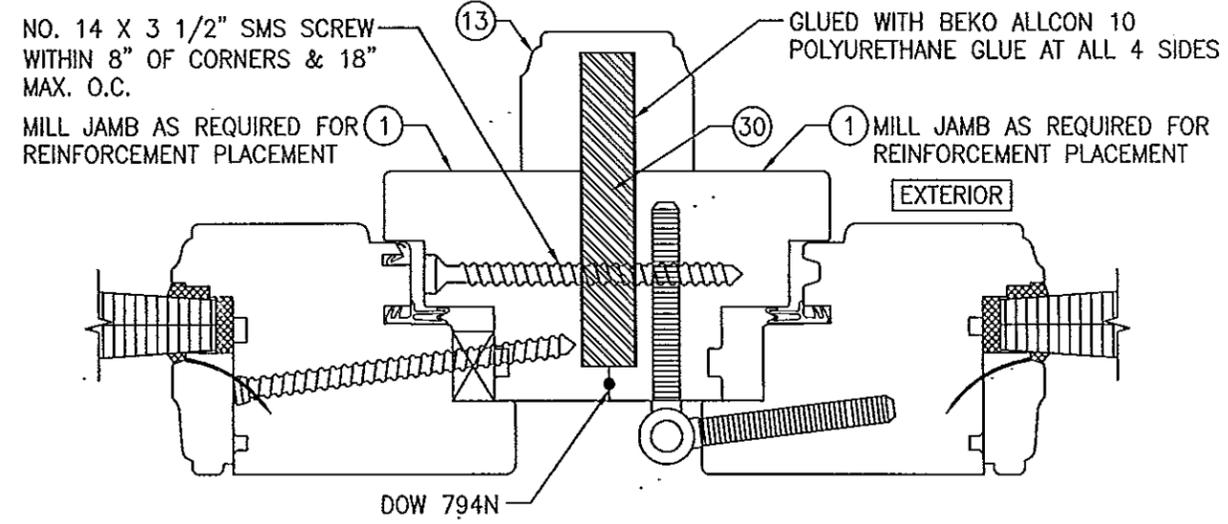


SECTION **E1**
SCALE: 1/2 FULL **11**

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 14-0303-07
Expiration Date 5/27/19
By K. Schaefer
Release Date Product Control



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



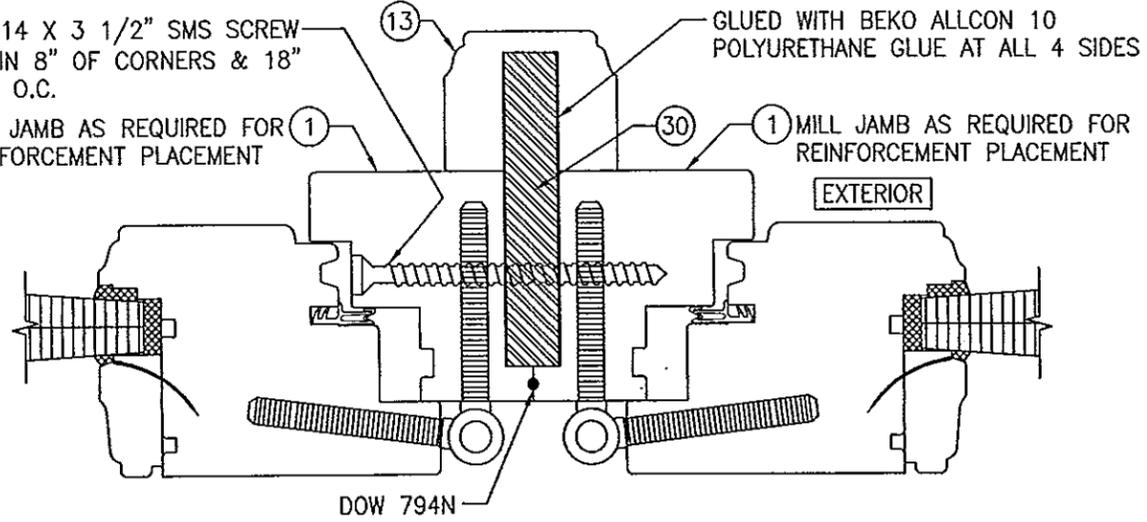
SECTION **G1**
SCALE: 1/2 FULL **11**

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

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 PANEL 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 LICENSE NO. 44135 STATE OF FLORIDA PROFESSIONAL ENGINEER		FEB 20 2014 WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1617		REV. B	
SHEET NO. 11 OF 19			

NO. 14 X 3 1/2" SMS SCREW
WITHIN 8" OF CORNERS & 18"
MAX. O.C.

MILL JAMB AS REQUIRED FOR
REINFORCEMENT PLACEMENT



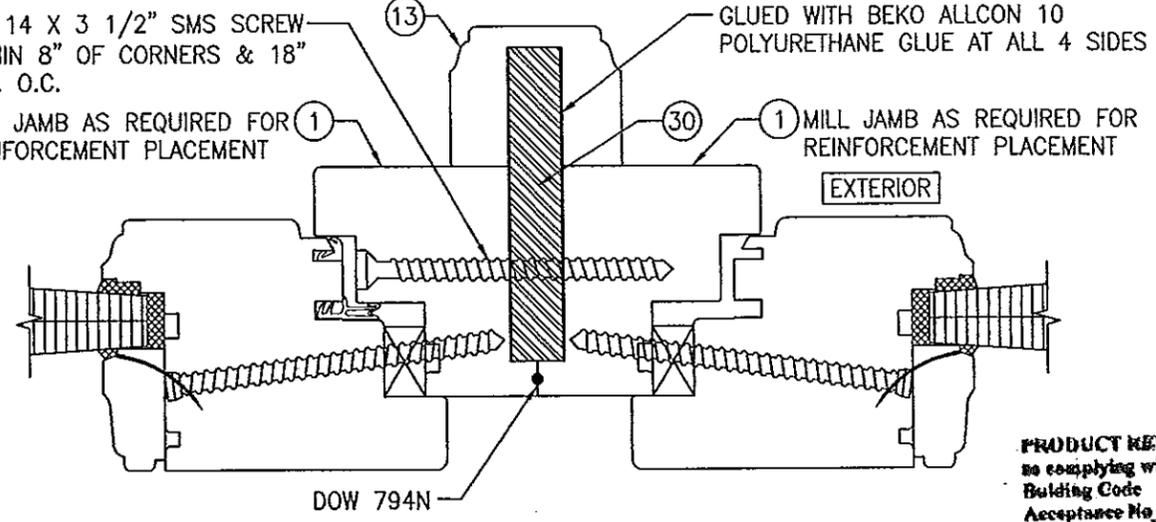
DOW 794N

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



DOW 794N

SECTION **G3**
SCALE: 1/2 FULL **12**

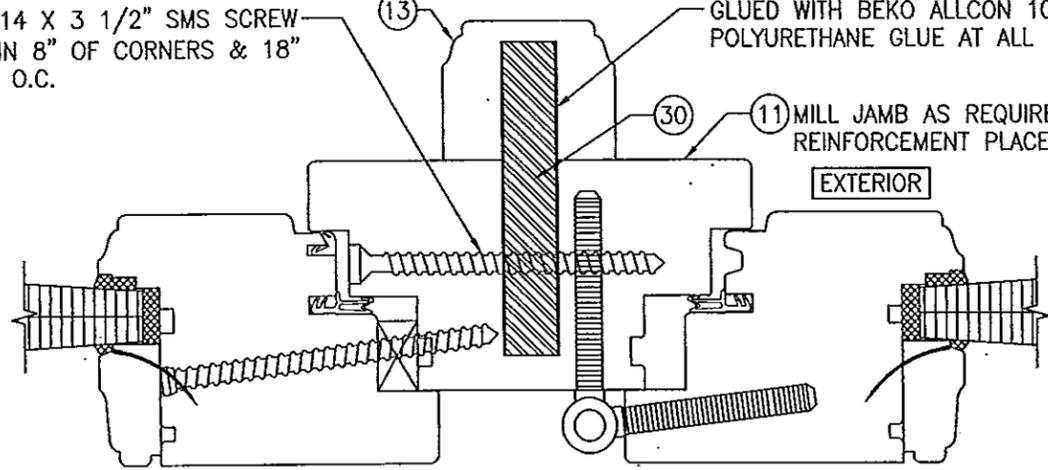
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

PRODUCT REVISED
to comply with the Florida
Building Code
Acceptance No. 14-0303-07
Expiration Date 5/27/19
By [Signature]
Revised Order Product Control

NO. 14 X 3 1/2" SMS SCREW
WITHIN 8" OF CORNERS & 18"
MAX. O.C.

GLUED WITH BEKO ALLCON 10
POLYURETHANE GLUE AT ALL 4 SIDES

MILL JAMB AS REQUIRED FOR
REINFORCEMENT PLACEMENT

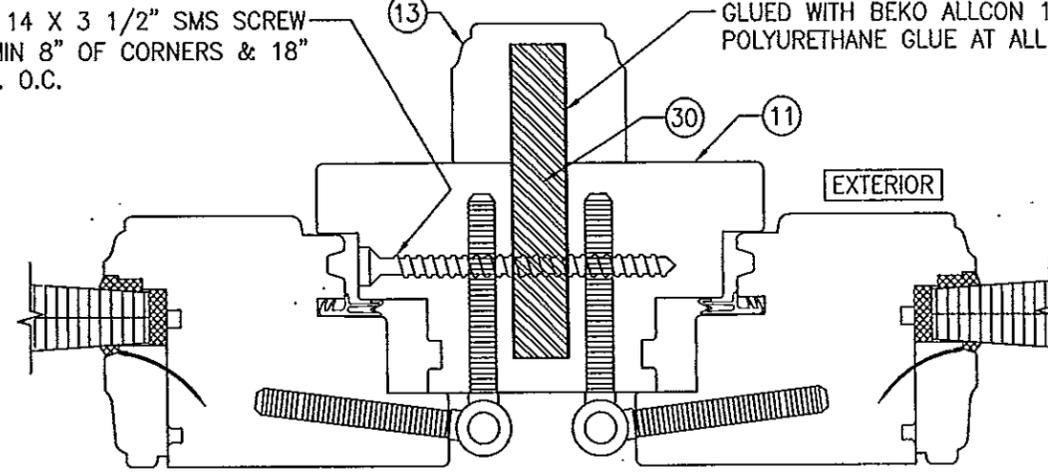


SECTION **G4**
SCALE: 1/2 FULL **12**

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.

GLUED WITH BEKO ALLCON 10
POLYURETHANE GLUE AT ALL 4 SIDES



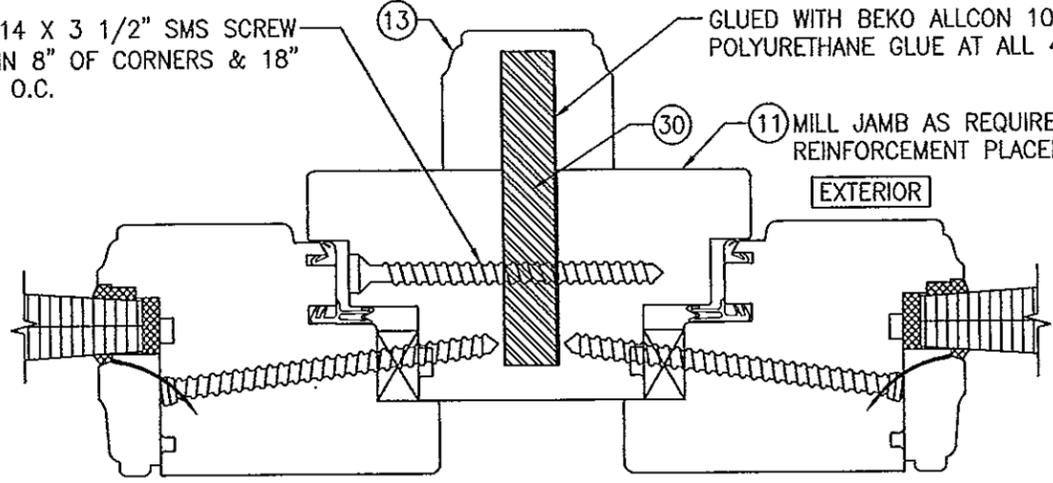
SECTION **G5**
SCALE: 1/2 FULL **12**

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

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 PANEL 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 FEB 20 2014 WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1617	REV. B
SHEET NO. 12 OF 19	

NO. 14 X 3 1/2" SMS SCREW
WITHIN 8" OF CORNERS & 18"
MAX. O.C.

GLUED WITH BEKO ALLCON 10
POLYURETHANE GLUE AT ALL 4 SIDES



SECTION G6
SCALE: 1/2 FULL 13

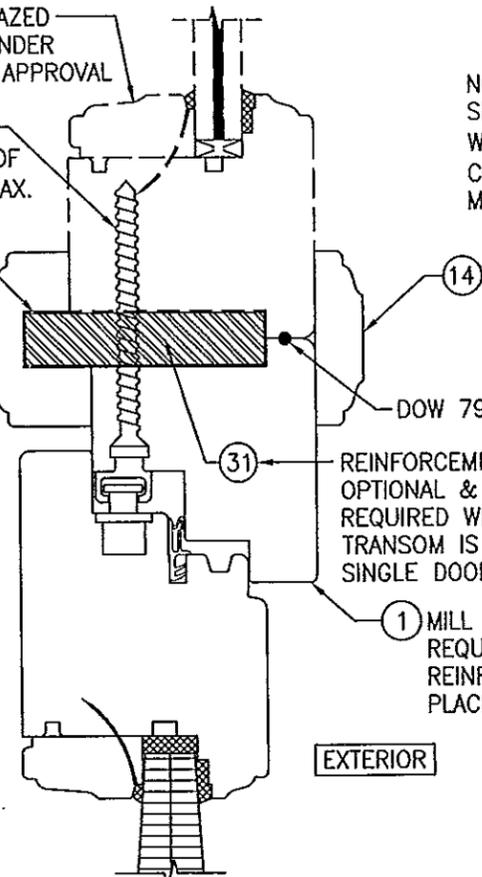
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

DIRECT GLAZED
WINDOW UNDER
SEPARATE APPROVAL

NO. 14 X 3" SMS
SCREW WITHIN 7" OF
CORNERS & 18" MAX.
O.C.

GLUED WITH BEKO
ALLCON 10
POLYURETHANE
GLUE AT ALL 4
SIDES

MILL MULLION
BAR COVER AS
REQUIRED FOR
REINFORCEMENT
PLACEMENT



SECTION H1
SCALE: 1/2 FULL 13

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

FIXED CASEMENT
WINDOW UNDER
SEPARATE APPROVAL

NO. 14 X 3"
SMS SCREW
WITHIN 7" OF
CORNERS & 18"
MAX. O.C.

GLUED WITH BEKO
ALLCON 10
POLYURETHANE
GLUE AT ALL 4
SIDES

REINFORCEMENT IS
OPTIONAL & NOT
REQUIRED WHEN
TRANSOM IS OVER A
SINGLE DOOR.

SECTION H2
SCALE: 1/2 FULL 13

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

INSTALLATION CLIP SCREW PER
ANCHOR REQUIREMENTS TABLE ON
SHEET 1 (1 PER CLIP)

SUBSTRATE BY OTHERS PER FRAME
ANCHOR REQUIREMENTS TABLE

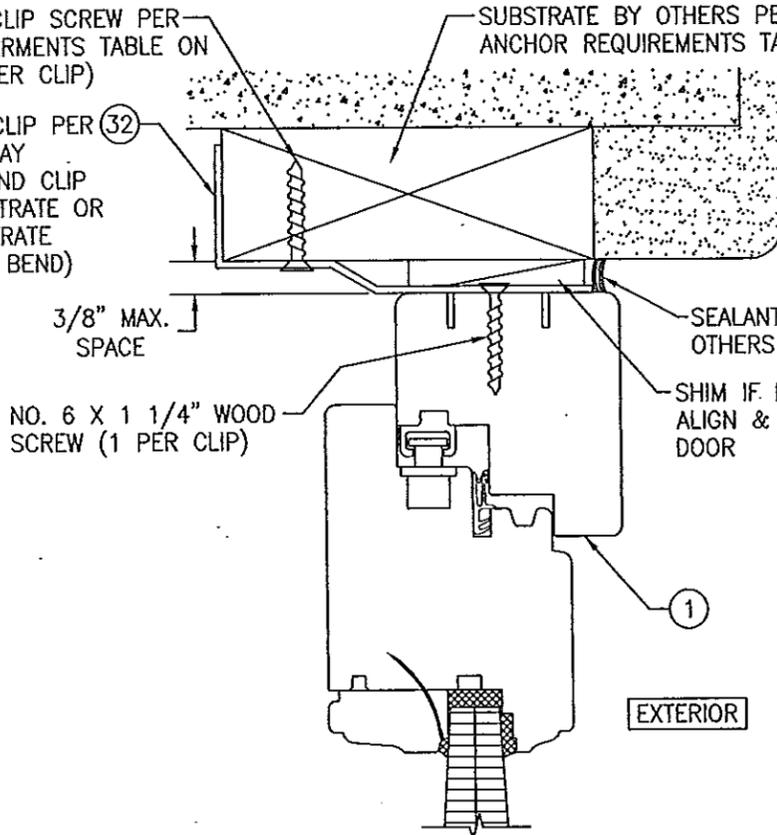
INSTALLATION CLIP PER 32
ELEVATIONS (MAY
OPTION TO BEND CLIP
AROUND SUBSTRATE OR
EXTEND SUBSTRATE
WITH NO CLIP BEND)

3/8" MAX.
SPACE

NO. 6 X 1 1/4" WOOD
SCREW (1 PER CLIP)

SEALANT BY
OTHERS

SHIM IF REQ'D TO
ALIGN & SUPPORT
DOOR



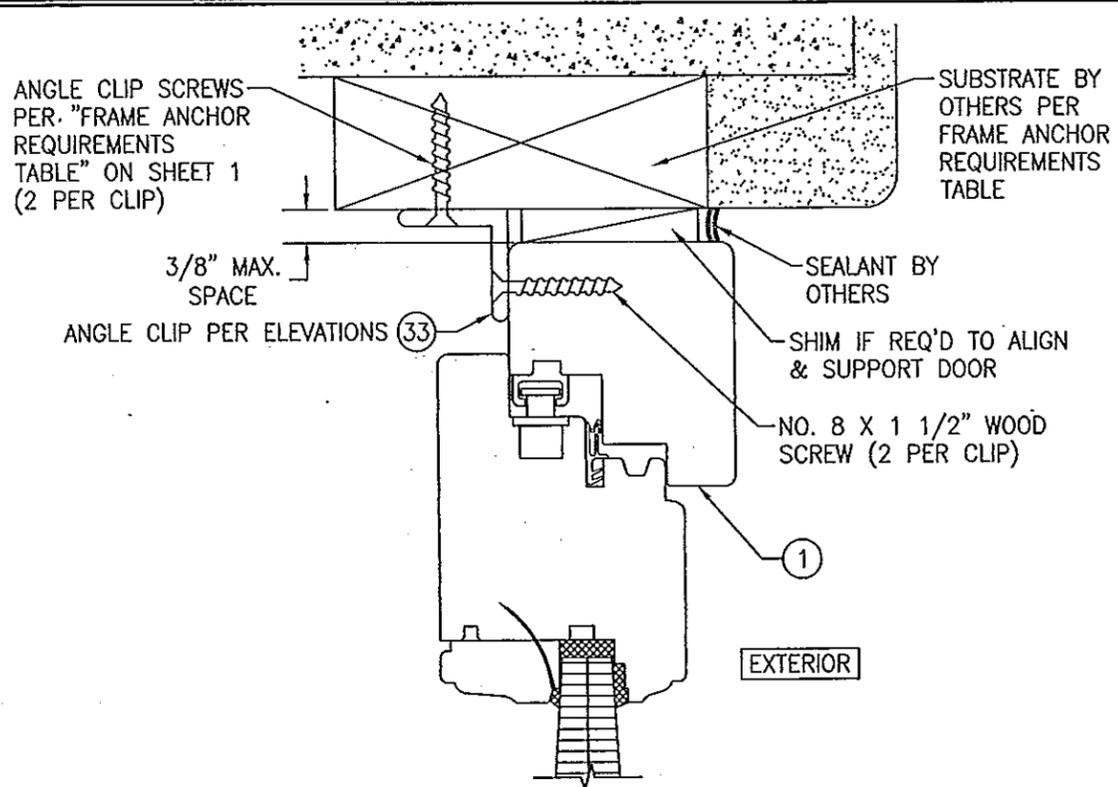
OPTIONAL INSTALLATION CLIP DETAIL

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

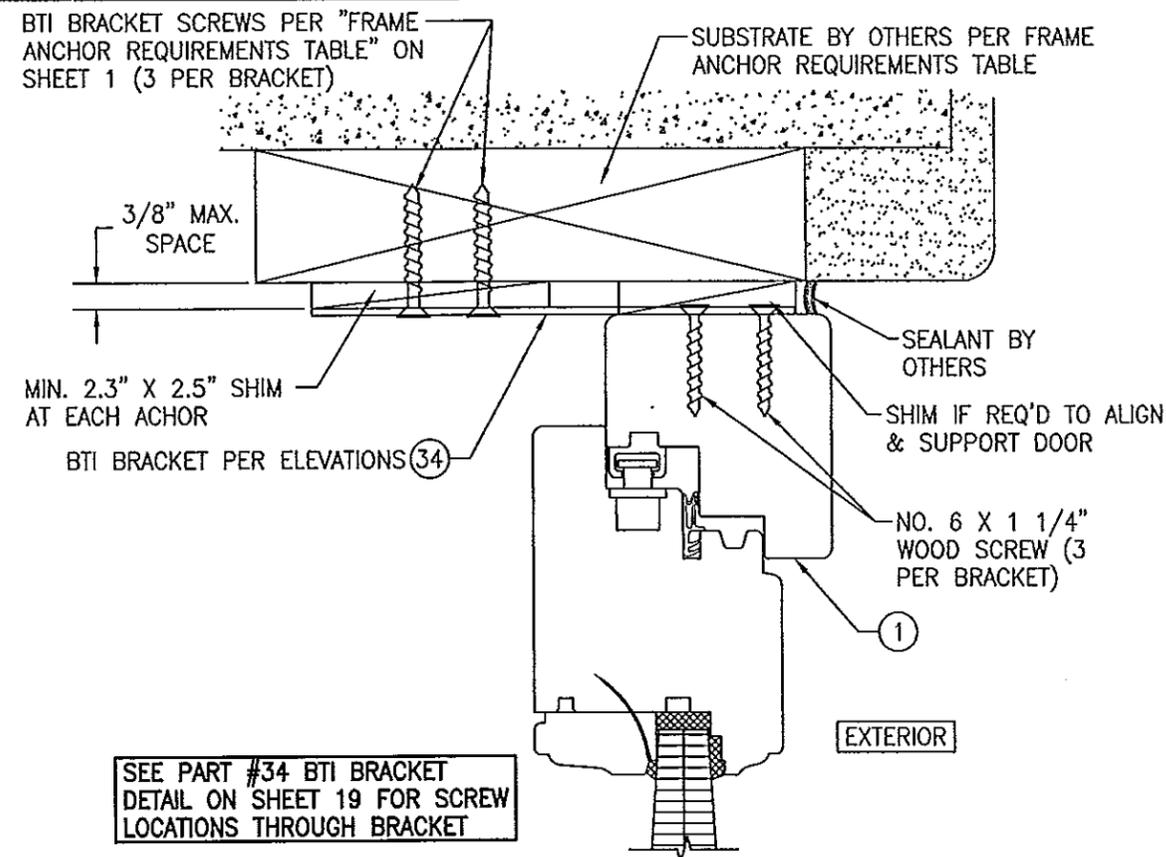
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 14-0303.07
Expiration Date 5/22/19
By [Signature]
Miami Building Products Company



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 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, 33418 PALM BEACH GARDENS, FL 33424 PHONE: 561-744-3424	
CERTIFICATION	FEB 20 2014
WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. REV.	1617 B
SHEET NO. 13 OF 19	

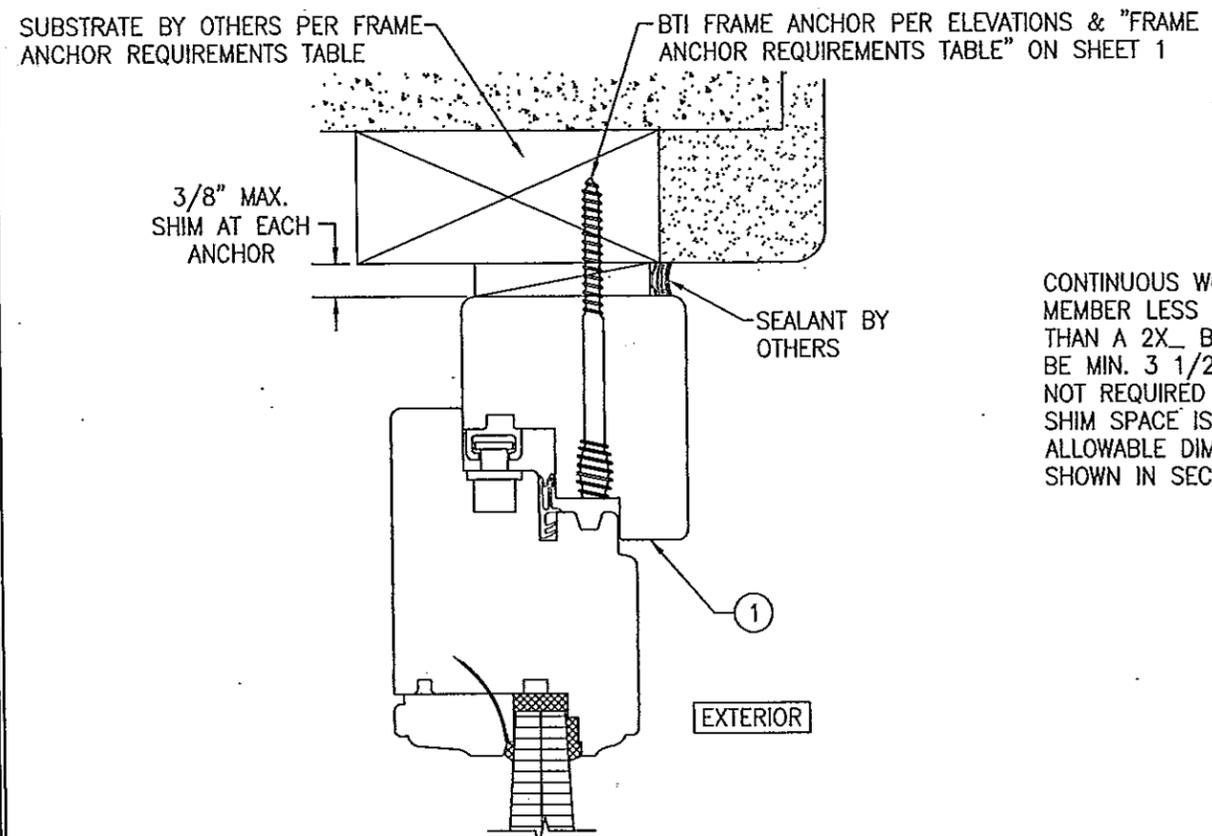


OPTIONAL INSTALLATION ANGLE CLIP DETAIL
 (HEAD SECTION SHOWN, SIDES ARE INSTALLED THE SAME)
 (FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

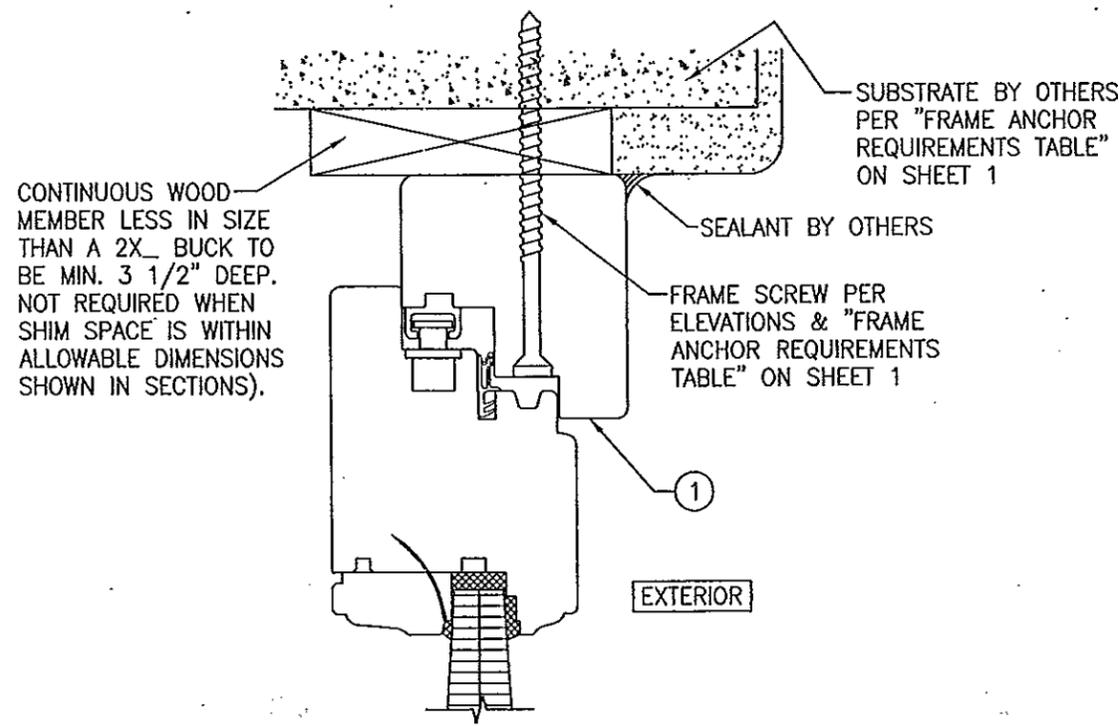


SEE PART #34 BTI BRACKET
 DETAIL ON SHEET 19 FOR SCREW
 LOCATIONS THROUGH BRACKET

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)

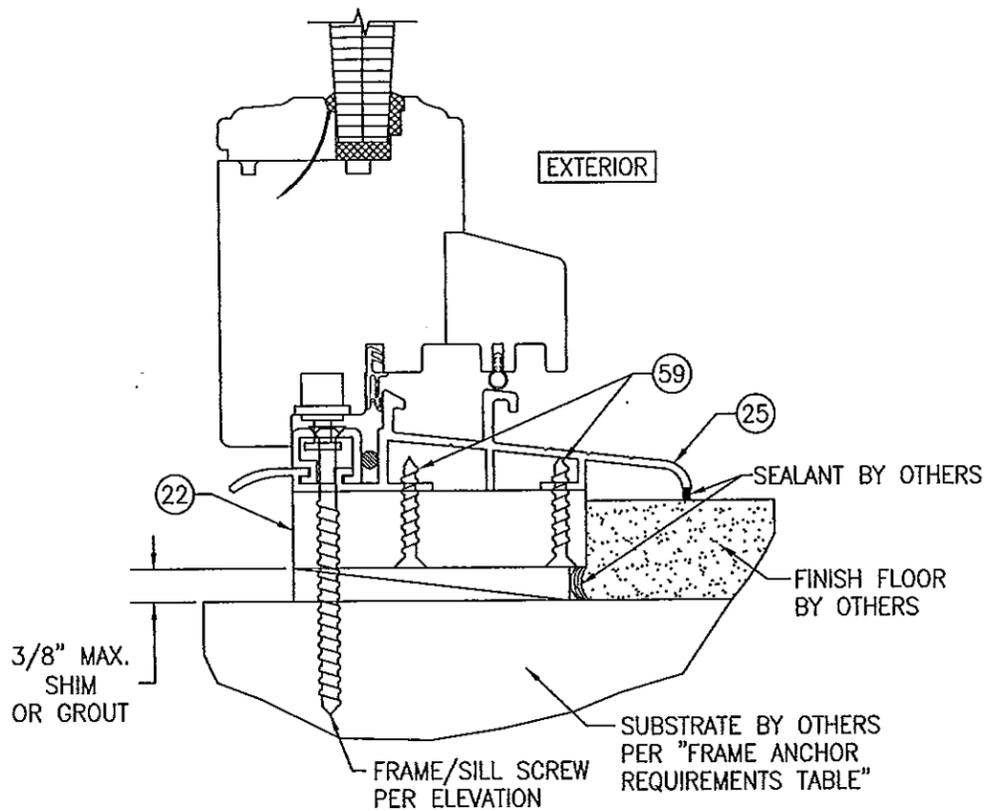


**OPTIONAL DIRECT MOUNT DETAIL
 TO SUBSTRATE WITH SPACER**
 (HEAD SECTION SHOWN, SIDES ARE INSTALLED THE SAME)
 (FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

PRODUCT REVISED
 to comply with the Florida
 Building Code
 Acceptance No. 14-0303-07
 Expiration Date 12/27/19
 By *John T. Chapp*
 Miami Birds Product Control

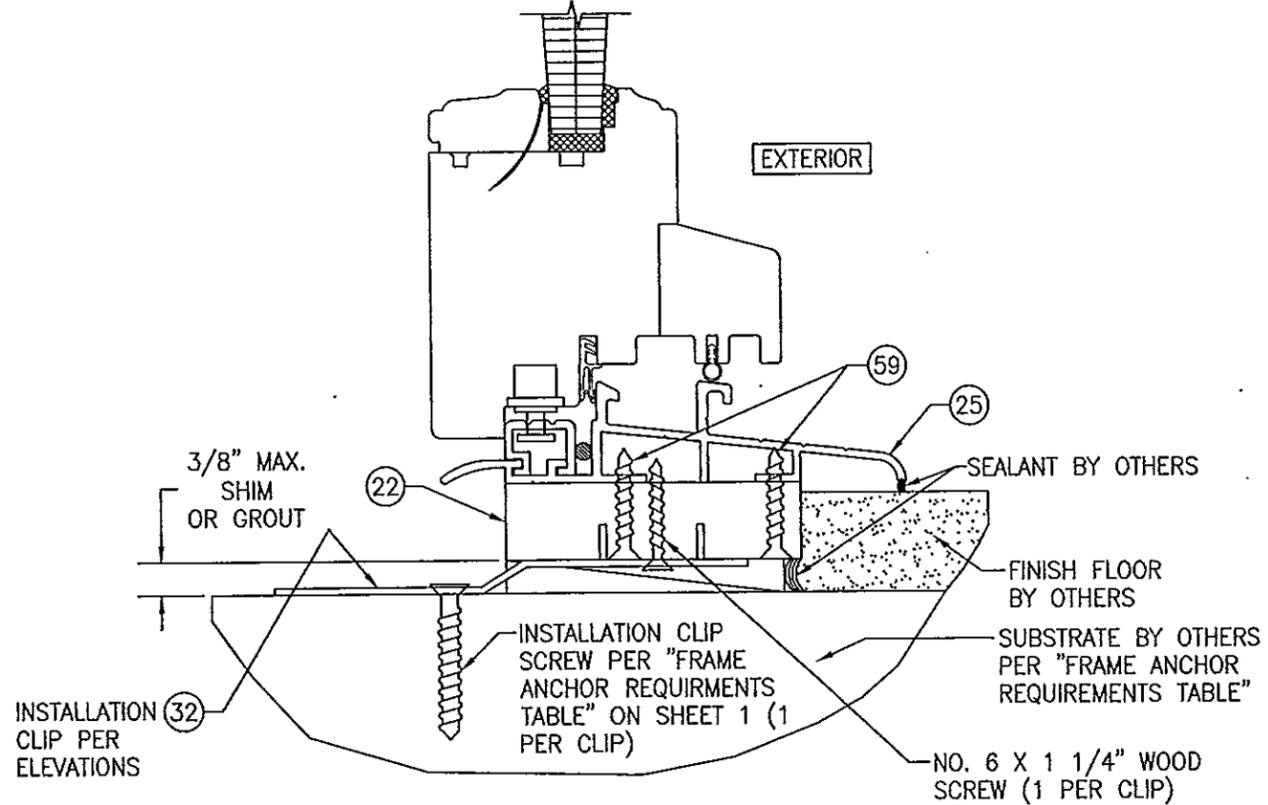


DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 10/08/08	
NO.	REVISION DESCRIPTION	DATE	BY
DRAWING TITLE IN-SWING IMPACT WOOD PANEL DOORS			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)		MANUFACTURER TISCHLER UND SOHN (USA) LTD.	
7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		SIX SUBURBAN AVENUE STAMFORD, CONNECTICUT 06901 203-674-0600	
CERTIFICATION FEB 20 2014		REV. B	
WARREN W. SCHAEFER, P.E. P.E. NO. 44135		DRAWING NO. 1617	
SHEET NO. 14 OF 19			



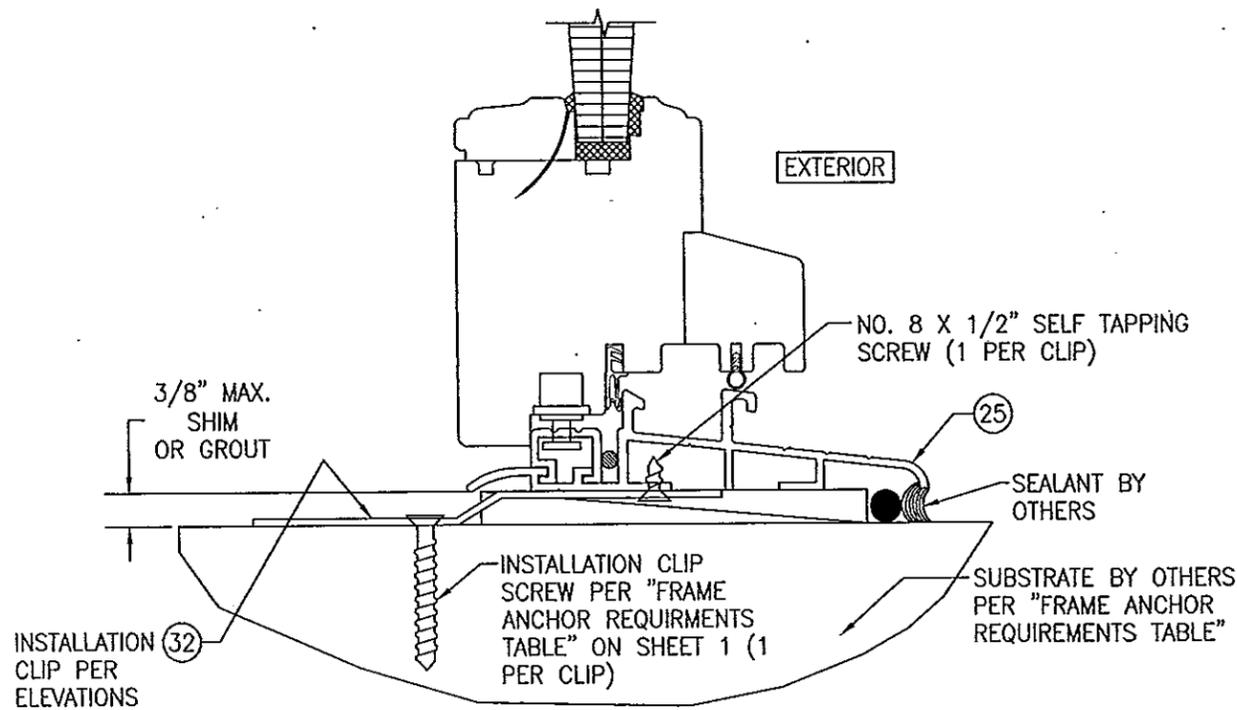
SILL DETAIL (STANDARD SILL INSTALLED WITH FRAME/SILL SCREW & SUB-SILL)

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



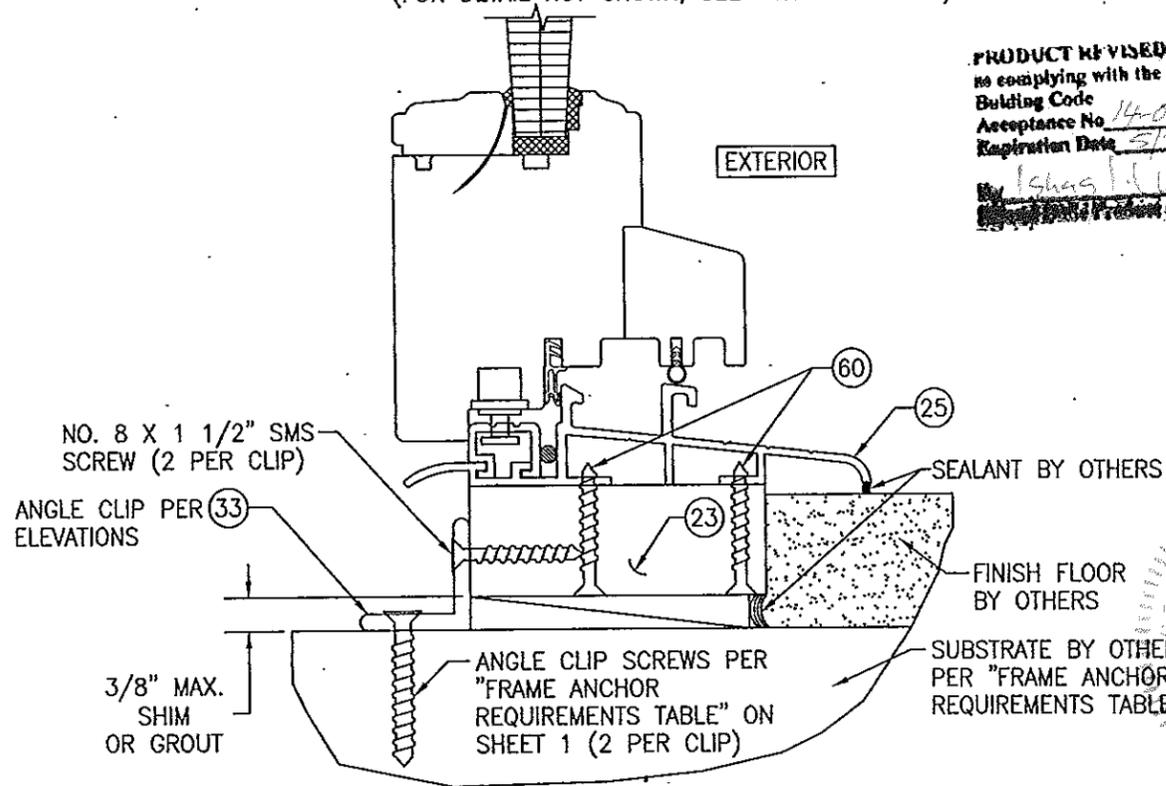
SILL DETAIL (STANDARD SILL INSTALLED WITH INSTALLATION CLIP & SUB-SILL)

(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-D7
Expiration Date 5/27/19
By: [Signature]
Product Control

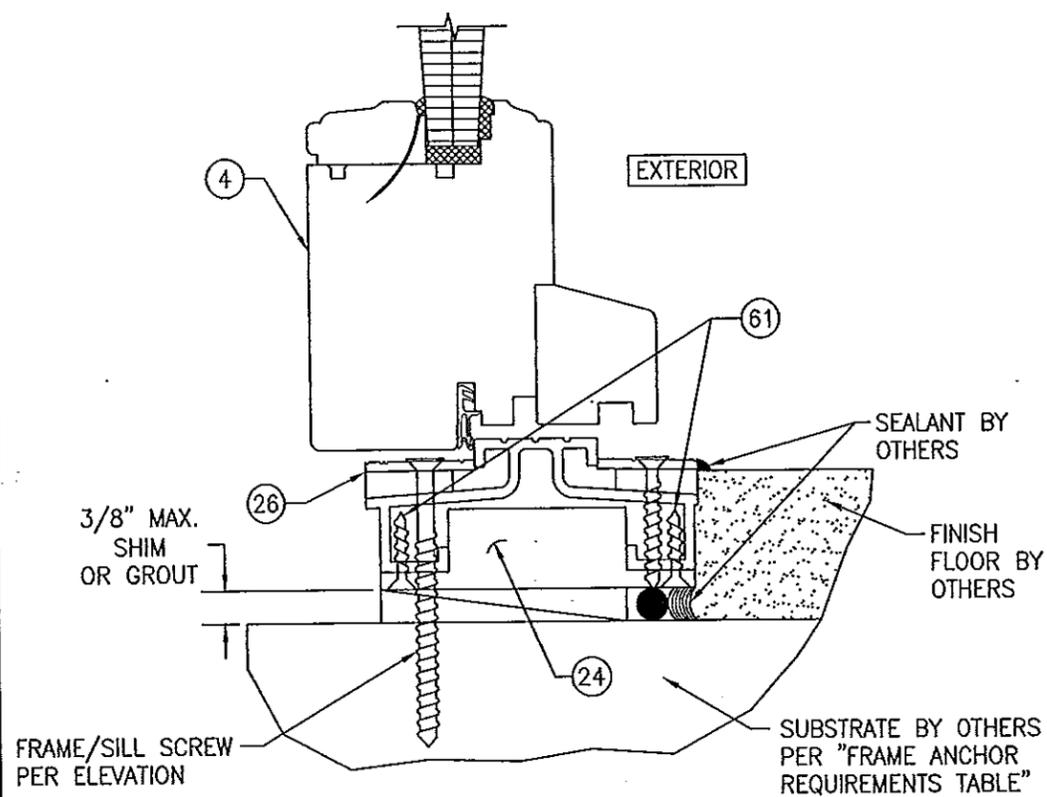
DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1-2	DATE: 10/08/08
DATE	
BY	
REVISION DESCRIPTION	
NO.	

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

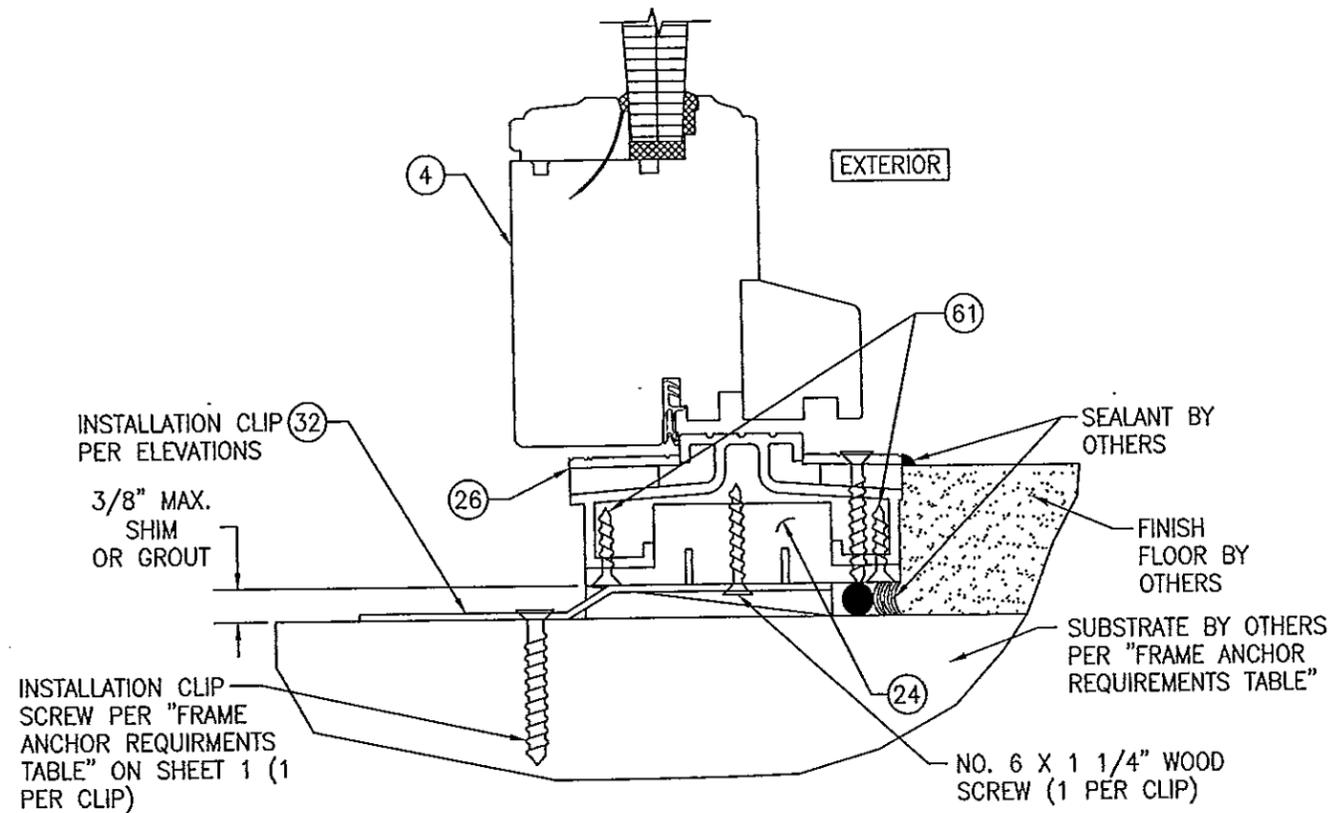
CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-5424

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

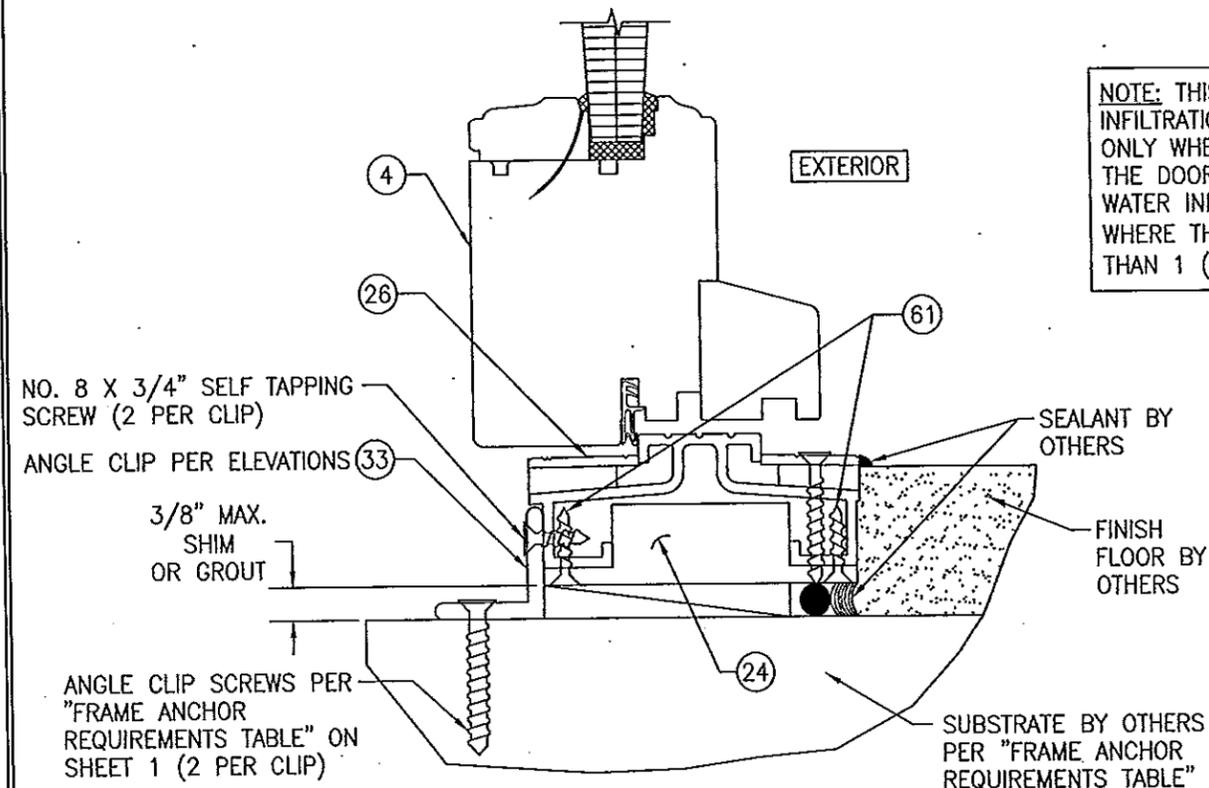
DRAWING NO. 1617	REV. B
SHEET NO. 15 OF 19	



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)



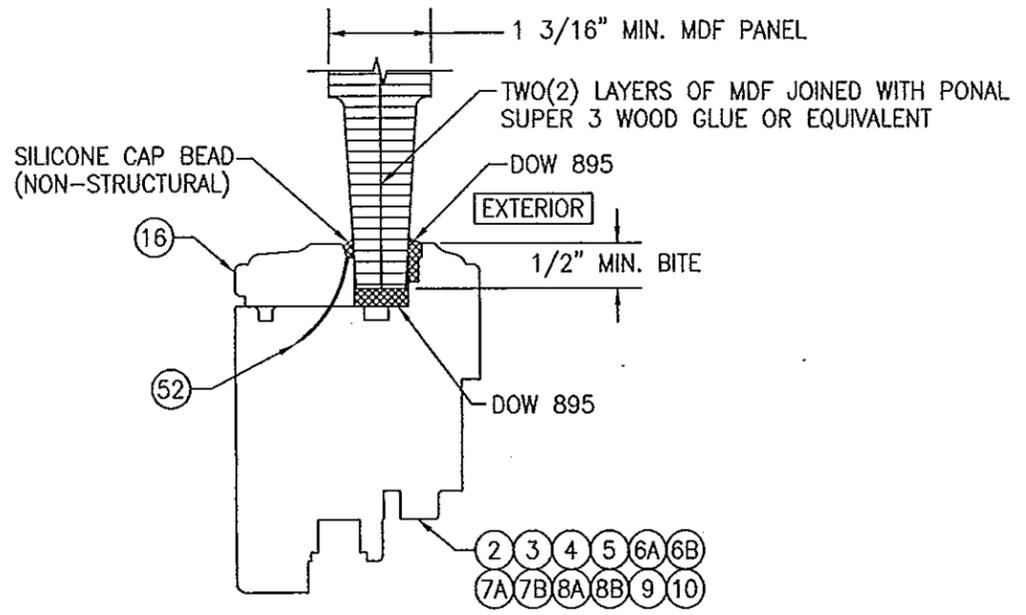
ADA SILL DETAIL (ADA SILL INSTALLED WITH ANGLE CLIP)
 (OPERABLE DOOR CONDITION SHOWN, FIXED PANEL DOORS ARE INSTALLED THE SAME)
 (FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

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).

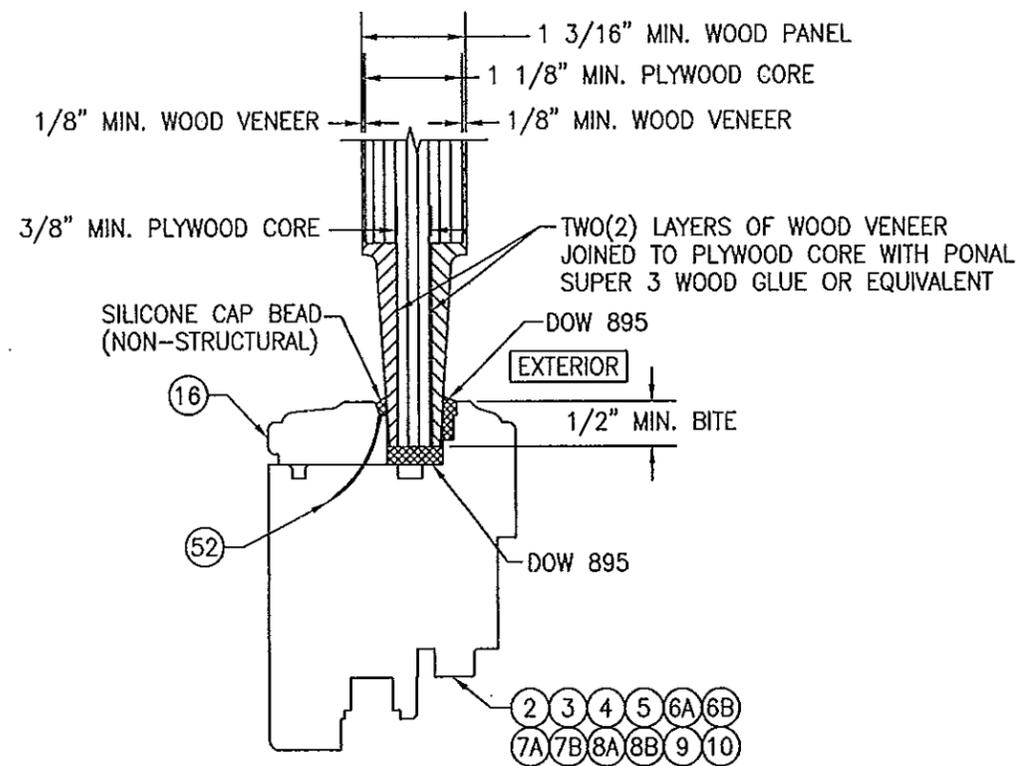
PRODUCT REVISED
 to comply with the Florida
 Building Code
 Acceptance No. 14-0303.07
 Expiration Date 5/27/19
 By: [Signature]
 Manual Date Product Control

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 10/08/08
DATE	BY
NO.	REVISION DESCRIPTION
DRAWING TITLE: IN-SWING IMPACT WOOD 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	
DRAWING NO.	REV.
1617	B
SHEET NO.	
16	OF 19

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

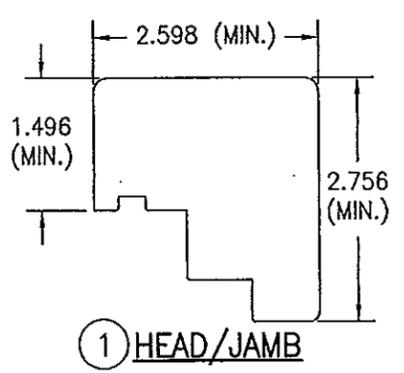


MDF PANEL GLAZING DETAIL

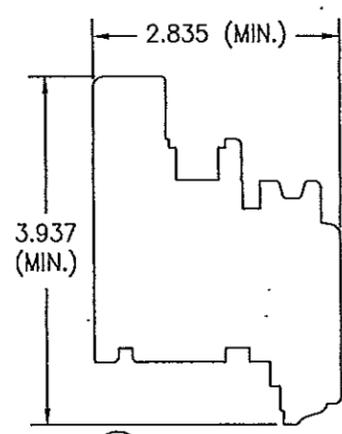


WOOD VENEER PANEL GLAZING DETAIL

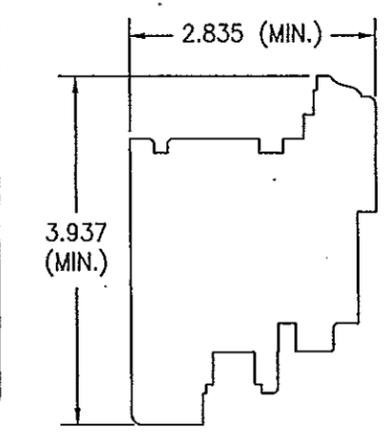
PRODUCT REVISED
 to comply with the Florida
 Building Code
 Acceptance No. 14-0303-07
 Expiration Date 5/27/09
 By [Signature]
 Revised Date Product Control



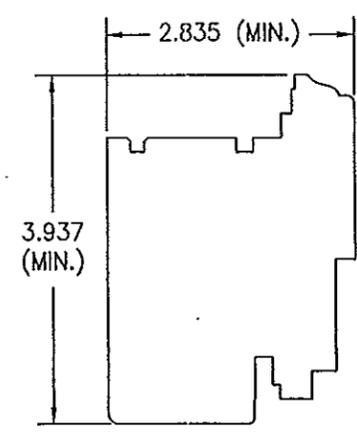
1 HEAD/JAMB



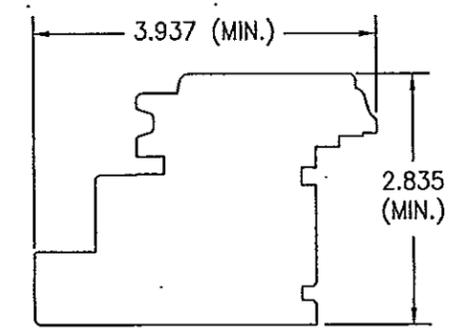
2 TOP RAIL



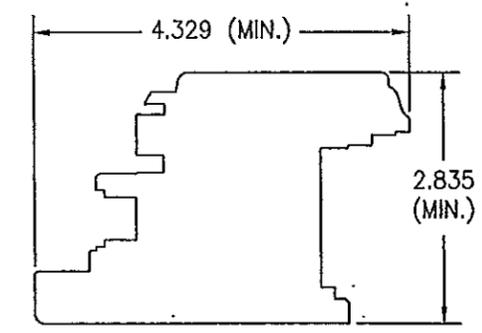
3 STANDARD BOTTOM RAIL



4 BOTTOM RAIL (USED WITH ADA THRESHOLD)



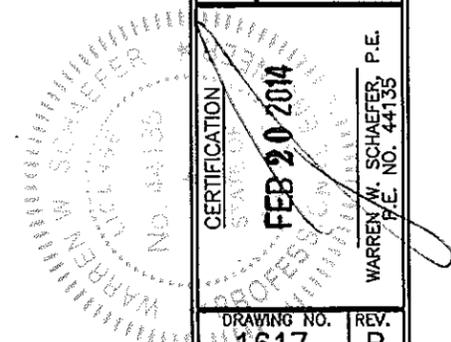
5 STILE



6A ACTIVE MEETING STILE (USED WITH REINFORCEMENT)

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

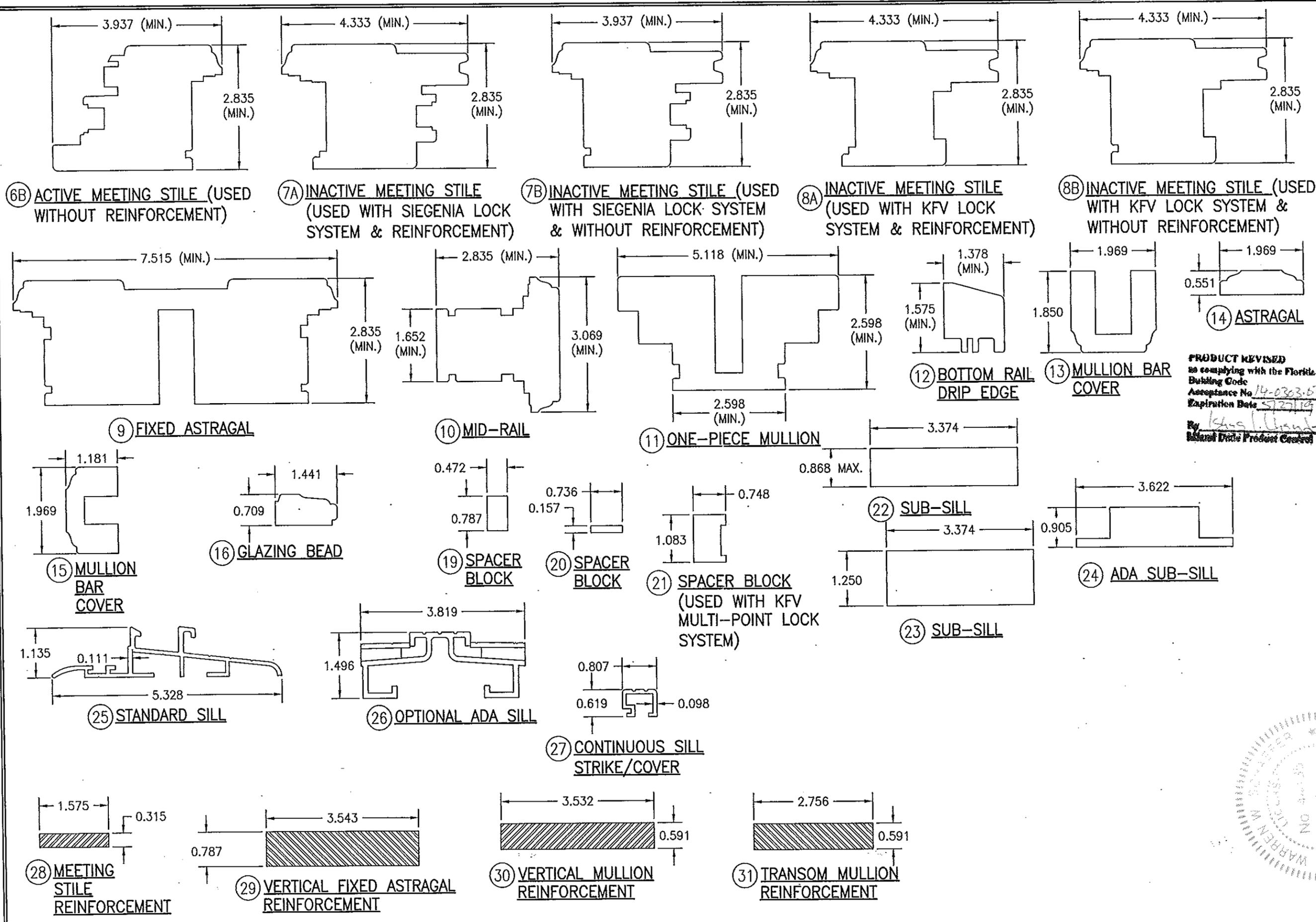


DRAWING TITLE
 IN-SWING IMPACT WOOD PANEL DOORS

DRAWING NO.
 1617

REV.
 B

SHEET NO.
 17 OF 19



PRODUCT REVISED
 to comply with the Florida
 Building Code
 Acceptance No. 14-0363.07
 Expiration Date 5/27/19
 By *Karl Hank*
 Return Date Product Control

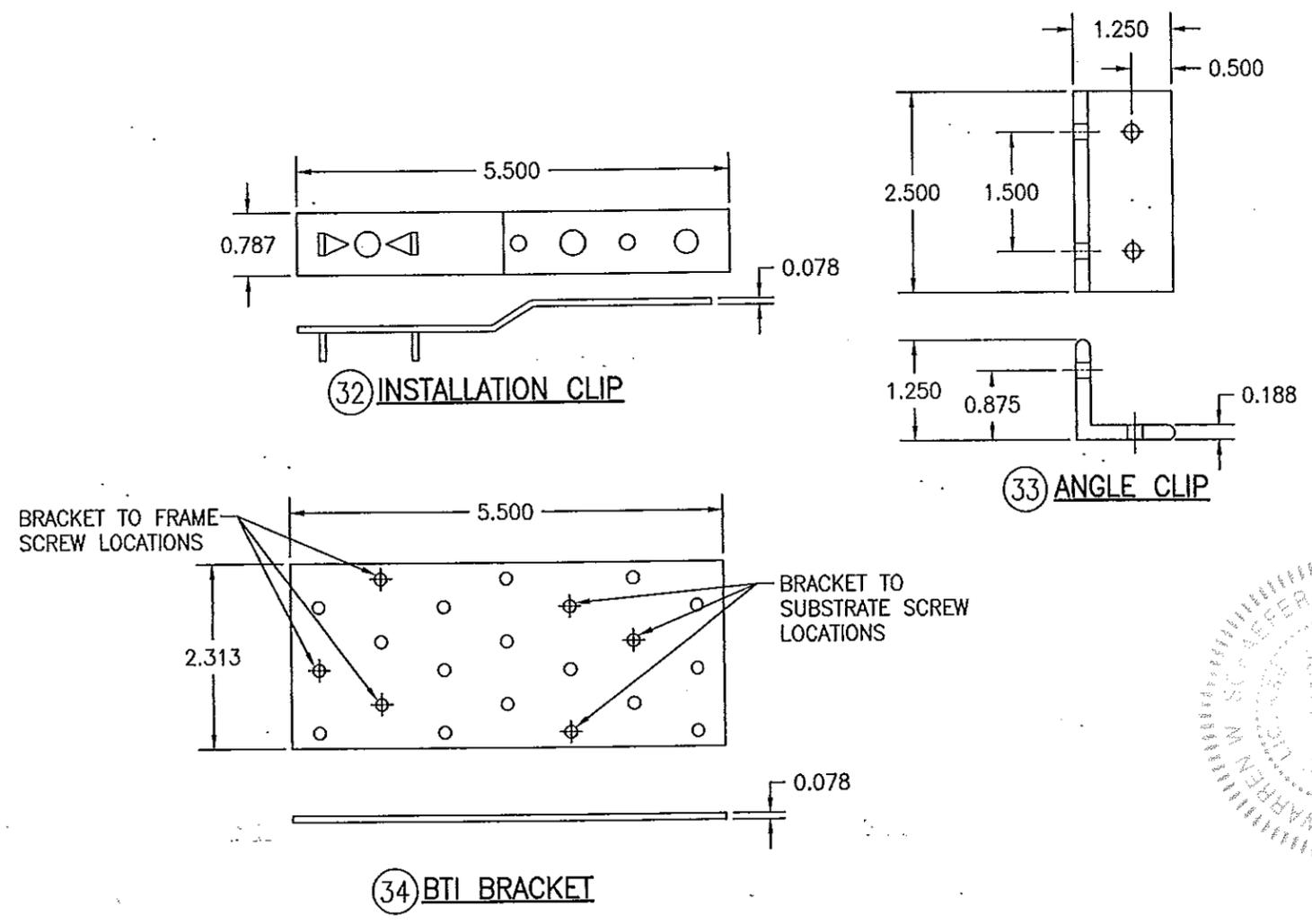
DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 10/08/08	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE: IN-SWING IMPACT WOOD PANEL DOORS MANUFACTURER: TISCHLER UND SOHN (USA) LTD. SIX SUBURBAN AVENUE STAMFORD, CONNECTICUT 06901 203-674-0600			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, 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		DRAWING NO. 1617 SHEET NO. 18 OF 19	

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	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 RE-VISED as complying with the Florida Building Code
 Acceptance No. 14-0303-07
 Expiration Date 12/27/2019
 By: [Signature]
 [Stamp]



DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1-2	DATE: 10/08/08
DATE	BY
NO.	REVISION DESCRIPTION
DRAWING TITLE IN-SWING IMPACT WOOD 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, 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. 1617	REV. B
SHEET NO. 19 OF 19	