

#### **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/building

#### 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:** Series "Mahogany Impact" Inswing Wood Casement Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. 1531, titled "In-swing Impact Wood Casement Window" sheets 1 through 14 of 14, dated 04/03/08, with revision C1 dated 05/15/18, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. 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 and Small Missile Impact Resistant.

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, Wedel (Schleswig– Holstein), Germany, model/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 NOA# 18-0531.07 and consists of this page 1 and evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

The submitted documentation was reviewed by Manuel Perez, P.E.



NOA No. 20-0623.04 **Expiration Date: January 08, 2024** Approval Date: July 23, 2020

Page 1

### Tischler und Sohn (USA) Ltd.

## NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

#### 1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's

#### A. DRAWINGS

- 1. Manufacturer's die drawings and sections. (Submitted under NOA No. 08-0804.16
- 2. Drawing No. **1531**, titled "In-Swing Impact Wood Casement Window" sheets 1 through 14 of 14, dated 04/03/08, with revision C1 dated 05/15/18, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E.

(Submitted under NOA No. 18-0531.07)

### B. TESTS

- 1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
  - 2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
  - 3) Water Resistance Test, per FBC, TAS 202-94
  - 4) Large Missile Impact Test per FBC, TAS 201-94
  - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
  - 6) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94

along with marked-up drawings and installation diagram of a wood fixed and operable wood casement windows, prepared by Architectural Testing, Inc., Test Report No. **ATI-77324.01-109-18**, dated 06/30/08, signed and sealed by Michael D. Stremmel, P.E.

(Submitted under NOA No. 08-0804.16)

### C. CALCULATIONS

- 1. Anchor verification calculations and structural analysis, complying with FBC 6<sup>th</sup> Edition (2017), dated 07/24/08 and updated on 05/14/18, prepared by W.W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E. (Submitted under NOA No. 18-0531.07)
- 2. Glazing complies with **ASTM E1300-09**.

#### D. OUALITY ASSURANCE

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

Manuel Perez, P.E. Product Control Examiner NOA No. 20-0623.04

Expiration Date: January 08, 2024 Approval Date: July 23, 2020

## Tischler und Sohn (USA) Ltd.

## NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

### E. MATERIAL CERTIFICATIONS

- 1. Notice of Acceptance No. 17-0712.03 issued to Eastman Chemical Company (MA) for their "Saflex CP Saflex and Saflex HP Composite Glass Interlayers with PET Core" dated 09/07/17, expiring on 12/11/18.
- 2. Notice of Acceptance No. 17-0712.05 issued to Eastman Chemical Company (MA) for their "Saflex Clear and Color Glass Interlayers" dated 09/07/17, expiring on 05/21/21.

### F. STATEMENTS

- 1. Statement letter of conformance, complying with **FBC** 6<sup>th</sup> **Edition (2017)**, dated May 15, 2018, issued by W.W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E.
  - (Submitted under NOA No. 18-0531.07)
- 2. Statement letter of no financial interest, dated May 15, 2018, issued by W.W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E. (Submitted under NOA No. 18-0531.07)
- 3. Distributor Agreement between Tischler und Sohn (USA), Ltd., Connecticut, USA, and Tischler/ Cornelius Korn, G.m.b.H., Wedel (Schleswig–Holstein), Germany, dated 04/13/09, signed by Tim Carpenter and Wilhelm Korn, respectively. (Submitted under NOA No. 11-1101.11)
- 4. Laboratory addendum letter for Test Report No. ATI-77324.01-109-18, issued by Architectural Testing, Inc., dated 11/20/08, signed and sealed by Michael D. Stremmel, P.E.
  - (Submitted under NOA No. 08-0804.16)
- 5. Laboratory compliance letters for Test Report No. **ATI-77324.01-109-18**, issued by Architectural Testing, Inc., dated 07/01/08, all signed and sealed by Michael D. Stremmel, P.E.
  - (Submitted under NOA No. 08-0804.16)

#### G. OTHERS

1. Notice of Acceptance No. 17-0803.27, issued to Tischler und Sohn (USA) Ltd. for their Series "Mahogany Impact" Inswing Wood Casement Window – L.M.I., approved on 11/02/17 and expiring on 01/08/19.

Manuel Perez, P.E.
Product Control Examiner
NOA No. 20-0623.04

Expiration Date: January 08, 2024 Approval Date: July 23, 2020

### Tischler und Sohn (USA) Ltd.

## NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

- 2. NEW EVIDENCE SUBMITTED
- A. DRAWINGS
  - 1. None.
- B. TESTS
  - 1. None
- C. CALCULATIONS
  - 1. None.
- D. QUALITY ASSURANCE
  - 1. Miami-Dade Department of Regulatory and Economic Resources (RER)

### E. MATERIAL CERTIFICATIONS

- 1. Notice of Acceptance No. 18-0301.06 issued to Eastman Chemical Company (MA) for their "Saflex CP Saflex and Saflex HP Composite Glass Interlayers with PET Core" dated 05/17/18, expiring on 12/11/23.
- 2. Notice of Acceptance No. 17-0712.05 issued to Eastman Chemical Company (MA) for their "Saflex Clear and Color Glass Interlayers" dated 09/07/17, expiring on 05/21/21.

#### F. STATEMENTS

1. Statement letter of conformance, complying with FBC 6<sup>th</sup> Edition (2017) and FBC 7<sup>th</sup> Edition (2020) dated June 05, 2020, issued by W.W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E.

### G. OTHERS

1. Notice of Acceptance No. **18-0531.07**, issued to Tischler und Sohn (USA) Ltd. for their Series "Mahogany Impact" Inswing Wood Casement Window – L.M.I., approved on 07/26/18 and expiring on 01/08/24.

Manuel Perez, P.E.
Product Control Examiner
NOA No. 20-0623.04

Expiration Date: January 08, 2024 Approval Date: July 23, 2020

#### **GENERAL NOTES:**

- THIS PRODUCT HAS BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
- 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 CONFORMANCE WITH THE FLORIDA BUILDING CODE PROTOCOLS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT PRODUCTS.
- 5. THIS PRODUCT HAS BEEN DESIGNED IN ACCORDANCE WITH AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
- IMPÀCT SHUTTERS ARE NOT REQUIRED WITH THIS PRODUCT.
- ALL ANCHORS SECURING PRODUCT FRAMES 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 Kd = 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 Cd = 1.6 WAS USED FOR WOOD SCREW ANALYSIS
- 10. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING
- 11. All WOOD MEMBERS OF THIS PRODUCT 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 REQUIREMENTS

#### **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 SASH CORNERS: MORTISE & TENON CONSTRUCTION JOINED & GLUED WITH PONAL SUPER 3 WOOD GLUE OR EQUIVALENT.

ARCHED SASH CORNERS: ARCHED SASH BUTTED TO STRAIGHT SASH, JOINED WITH ONE(1) NO.14 X 3" WOOD SCREW, & GLUED WITH PONAL SUPER 3 WOOD GLUE OR EQUIVALENT. HALF ROUND SASH CORNERS: FINGER JOINT CONSTRUCTION JOINED & GLUED WITH PONAL SUPER 3 WOOD GLUE OR EQUIVALENT.

FRAME ANCHOR REQUIREMENTS TABLE					
OPENING TYPE (SUBSTRATE)	FRAME/CLIP/BRACKET TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST		
	FRAME 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"		
	(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"		
INS	STALLATION 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	. 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 & ANGLE CLIP SCREWS					
MIN. 2X6 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 X 1 1/2" SMS	1 1/8"	3/4"		
	(2) 8-18 SELF TAP/DRILLING SCREW	FULL	1/2"		
	(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"					
(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

LOCK STRIKE RE (TOP OF P	
SASH WIDTH	QUANTITY PER PANEL
RECTANGULAR	R PANEL
OVER 24"	2
LESS THAN 24"	1
ARCH TOP	PANEL
OVER 28"	3
15" TO 28"	2
LESS THAN 15"	1
ROUND TOP	PANEL
OVER 32"	4
20" TO 32"	3
12" TO 20"	2
LESS THAN 12"	1

(LOCK SIRIKE RE	
SASH	QUANTITY
HEIGHT	PER PANEL
ALL PANEL	SHAPES
OVER 77"	3
40" TO 77"	2
LESS THAN 40"	1

LOCK STRIVE DECLIDENENTS

LOCK STRIKE RE	QUIREMENTS
(BOTTOM OF	PANEL)
SASH	QUANTITY
WIDTH	PER PANEL
ALL PANEL	SHAPES
OVER 32"	3
24" TO 32"	2
LESS THAN 24"	1

LOCK	S	TRIKE	RE(	QUIREMENTS
(HING	E	SIDE	0F	TILT-TURN
-		WINI	OOW	S)

SASH HEIGHT	QUANTITY PER PANE
ALL PANEL	SHAPES
OVER 79"	4
45" TO 79"	3
27" TO 45"	2
LESS THAN 27"	1
NOTE: WHEN WINI TILT— TURN, ONL HINGES ARE USEI COMBINED WITH I POINTS. WHEN WI SWING ONLY, ONI EXIST.	Y 2 D _OCK NDOW IS

SASH WIDTH DIMENSIONS ARE APPROXIMATELY 2 1/2" LESS THAN THE FRAME WIDTH & SASH HEIGHT DIMENSIONS ARE APPROXIMATELY 3" LESS THAN THE FRAME HEIGHT

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

SASH **HEIGHT** CONSIDERED TO BE FULL SASH OVER 74" UNITS OR DISTANCE FROM THE SRINGLINE FOR SHAPED UNITS OVER 74"

THE "SASH HEIGHT" IS

HEIGHT FOR RECTANGULAR

BASE OF SASH TO SASH

HINGE REQUIREMENTS QUANTITY PER PANEL POT HINGES 51" TO 74' 4 27" TO 51' 3 LESS THAN 27' 2 SCREWED-IN HINGES 4 46" TO 74" 3 LESS THAN 46" 2 CONCEALED HINGES OVER 78" 54" TO 78' 4 29" TO 54' 3 LESS THAN 29"

HINGE REQUIREMENTS (TILT-TURN WINDOWS)

2 PER WINDOW (ALL SIZES OF ALL WINDOWS)

ALLOWABLE DESIGN PRESSURE (SINGLE & DOUBLE WINDOWS)						
MAX. FRAME	MAX. FRAME	ALLOWABLE	PRESSURE			
HEIGHT (IN.)	WIDTH (IN.)	POSITIVE (PSF)	NEGATIVE (PSF)			
	SINGLE WINDOW					
100 3/4	51 1/8	70	70			
76 11/16	35 15/16	70	(1) 85			
	DOUBLE WINDOW					
100 3/4	79 1/16	(2) 70	(2) 70			
76 11/16"	71 13/16	70	(1) 85			
(1) HIGHER PRESSURE OF -85 PSF IS ONLY APPLICABLE WHEN GLASS OPTION 2 & STANDARD SIZE MEETING STILES ARE USED						

ONLY (2) WITH FULL SIZE SINGLE WINDOWS USING GLASS OPTION 4, ALLOWABLE PRESSURE MUST BE REDUCED TO +/-66 PSF. PRESSURE MAY BE INCREASED TO +/-70 PSF IF THE D.L.O. WIDTH IS DECREASED TO MAX. 39.5" OR THE D.L.O. HEIGHT IS DECREASED TO MAX. 87".

**PRODUCT REVISED** as complying with the Florida Building Code 20-0623.04 NOA-No. **Expiration Date: 01/08/2024** 

By: Manuel Peres Miami-Dade Product Control

> PRODUCT REVISED as complying with the Florida Building Code Acceptance No 18-0531.07 Expiration Date 120.8, 2024

1531 SHEET NO. of 14

W.W.S.

04/03/08

TISCHLER UND SOHN (USA) L SIX SUBURBAN AVENUE STAMFORD, CONNECTICUT 203-674-0600

WINDOW

CASEMENT

WOOD

IMPACT

-SWING

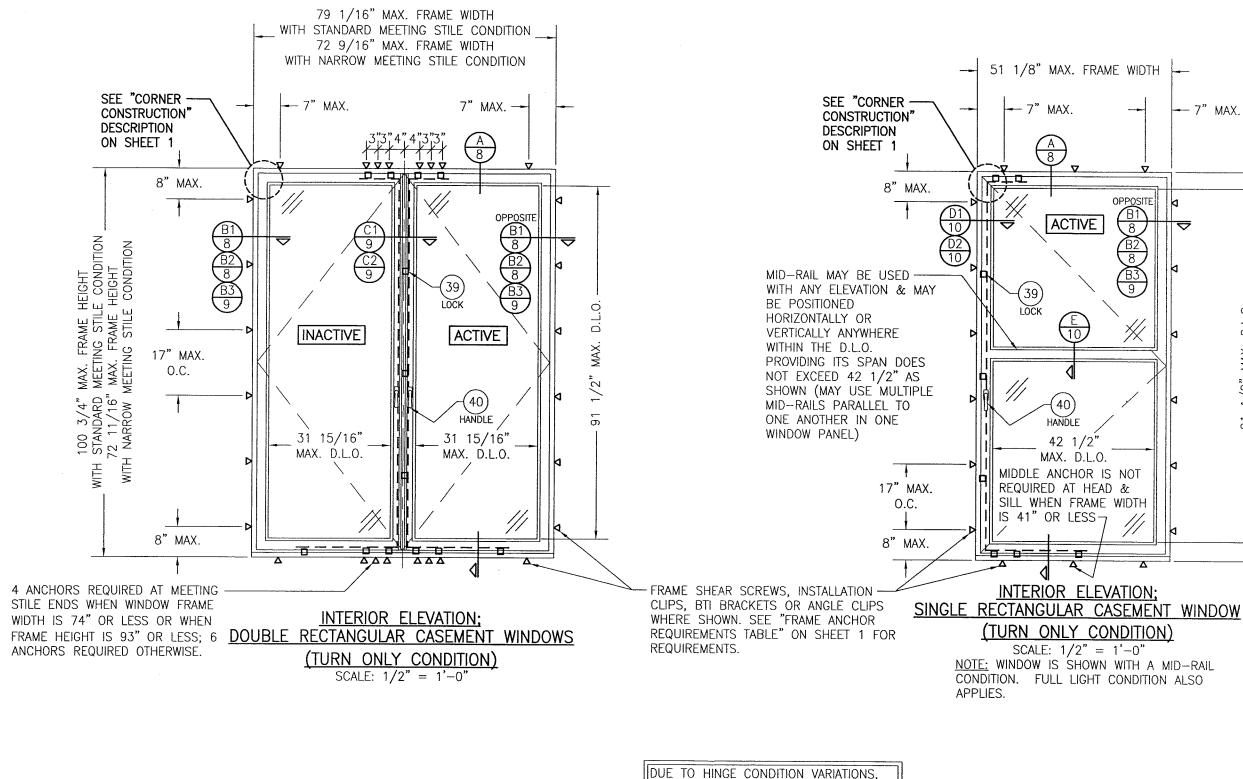
P.A. (CA 6809)

ISULTANTS

W. SCHAEFER
CONSULTING, P

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HINGE REQUIREMENTS

CONDITION. FULL LIGHT CONDITION ALSO HINGES ARE NOT SHOWN IN ELEVATIONS, SEE SECTIONS & HINGE TABLES FOR **PRODUCT REVISED** PRODUCT REVISED as complying with the Florida Building Code Building Code NOA-No. 20-0623.04

Expiration Date: 01/08/2024 By: Manuel Jeres Miami-Dade Product Control

as complying with the Florida Acceptance No 18-0531.07 Expiration Date 30.2024

− 7" MAX.

HEIGHT

FRAME

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. . .

1/2"

1531 SHEET NO. of 14

OT: 1=24

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TISCHLER UND SOHN (USA) L SIX SUBURBAN AVENUE STAMFORD, CONNECTICUT 203-674-0600

WINDOW

CASEMENT

WOOD

IMPACT

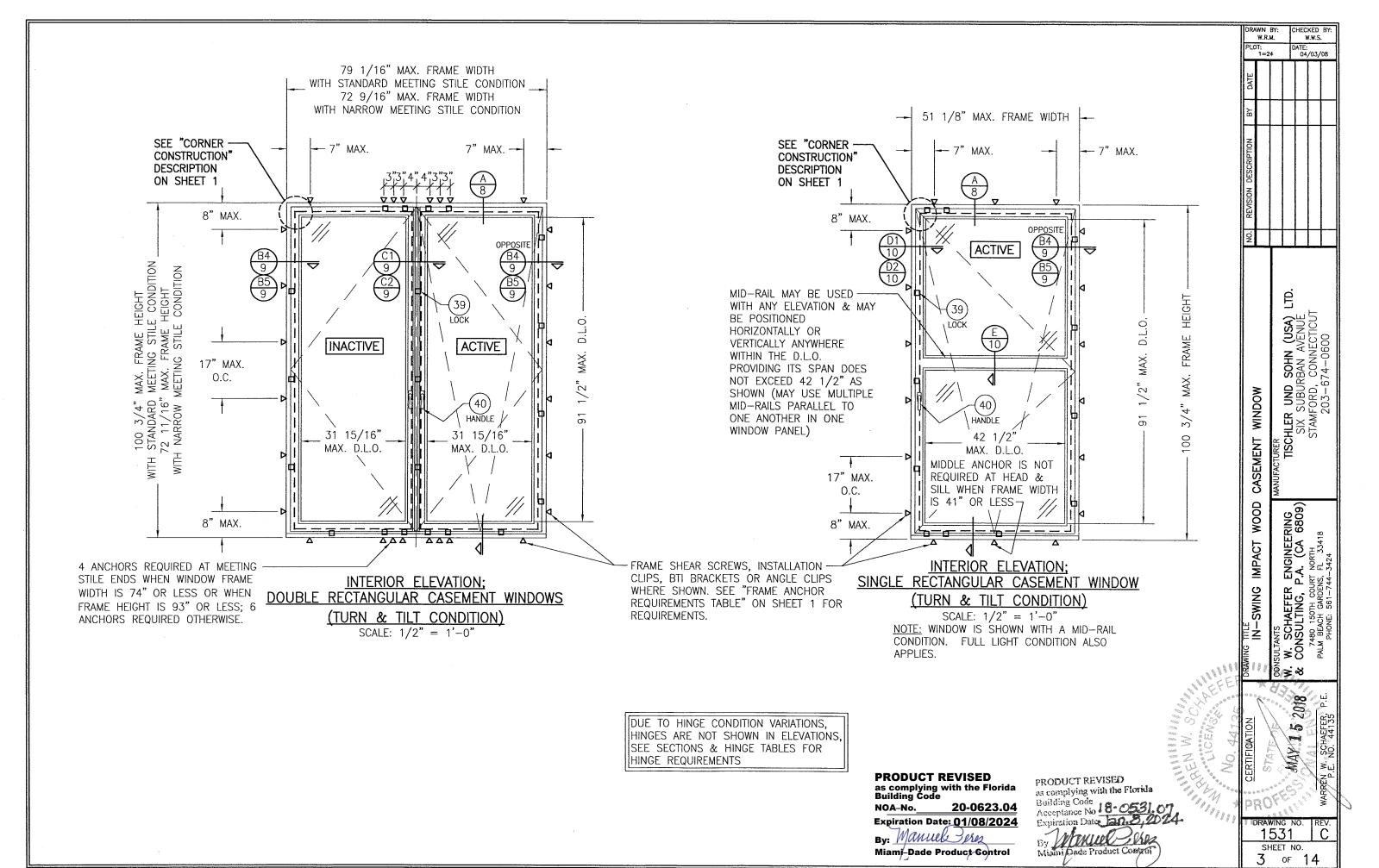
IN-SWING

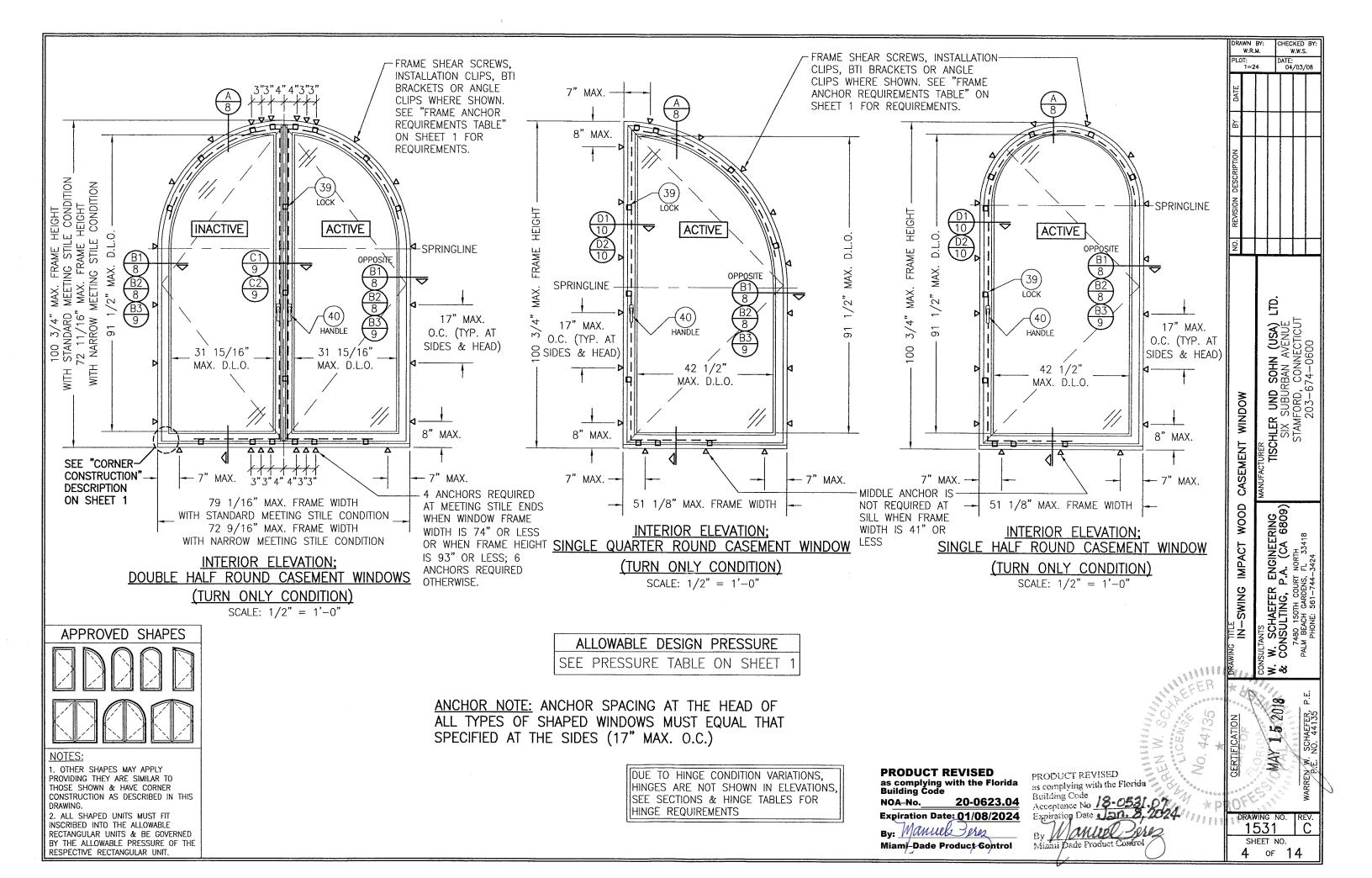
SULTANTS
W. SCHAEFER ENGINEERING
CONSULTING, P.A. (CA 6809)

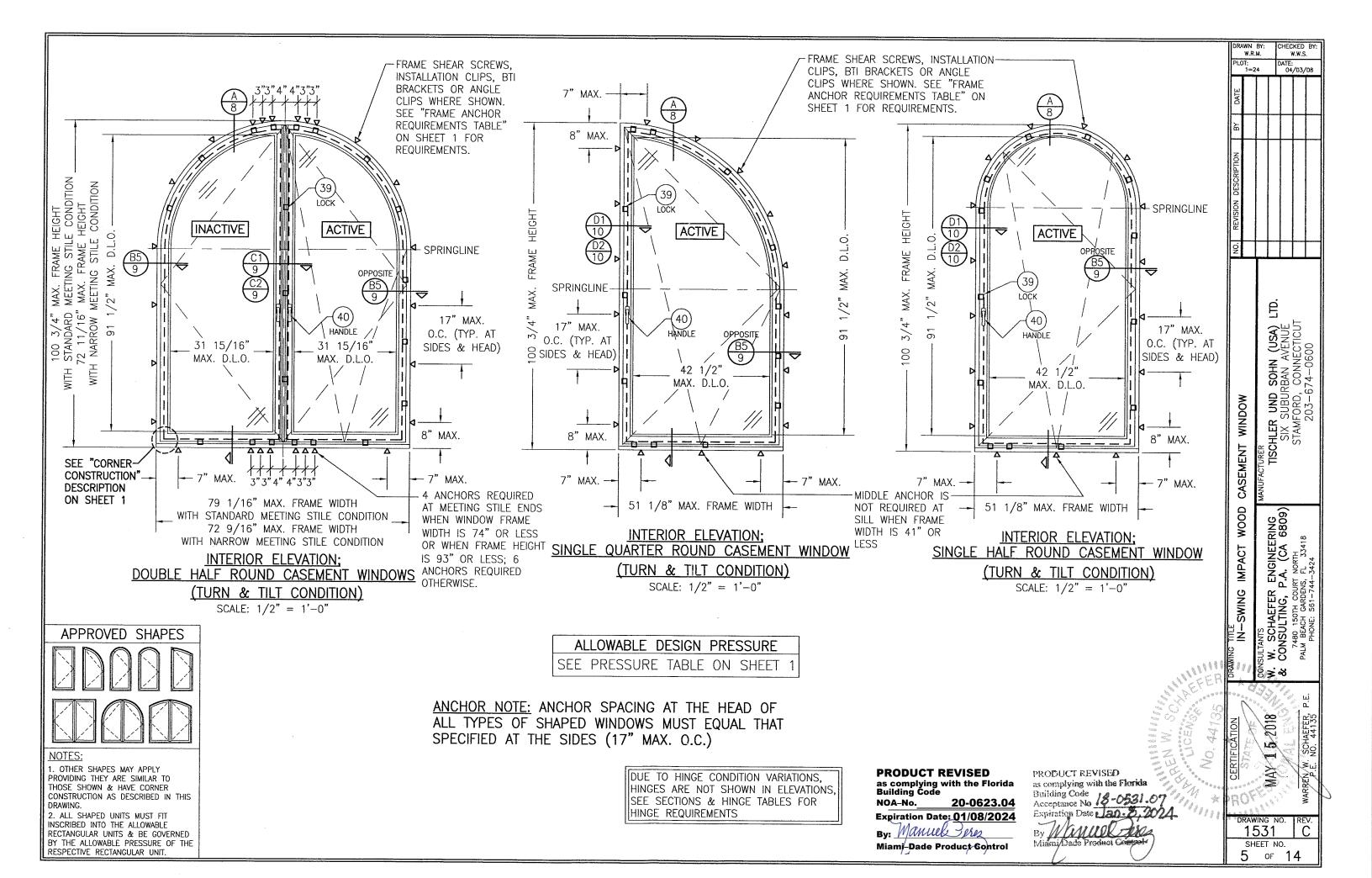
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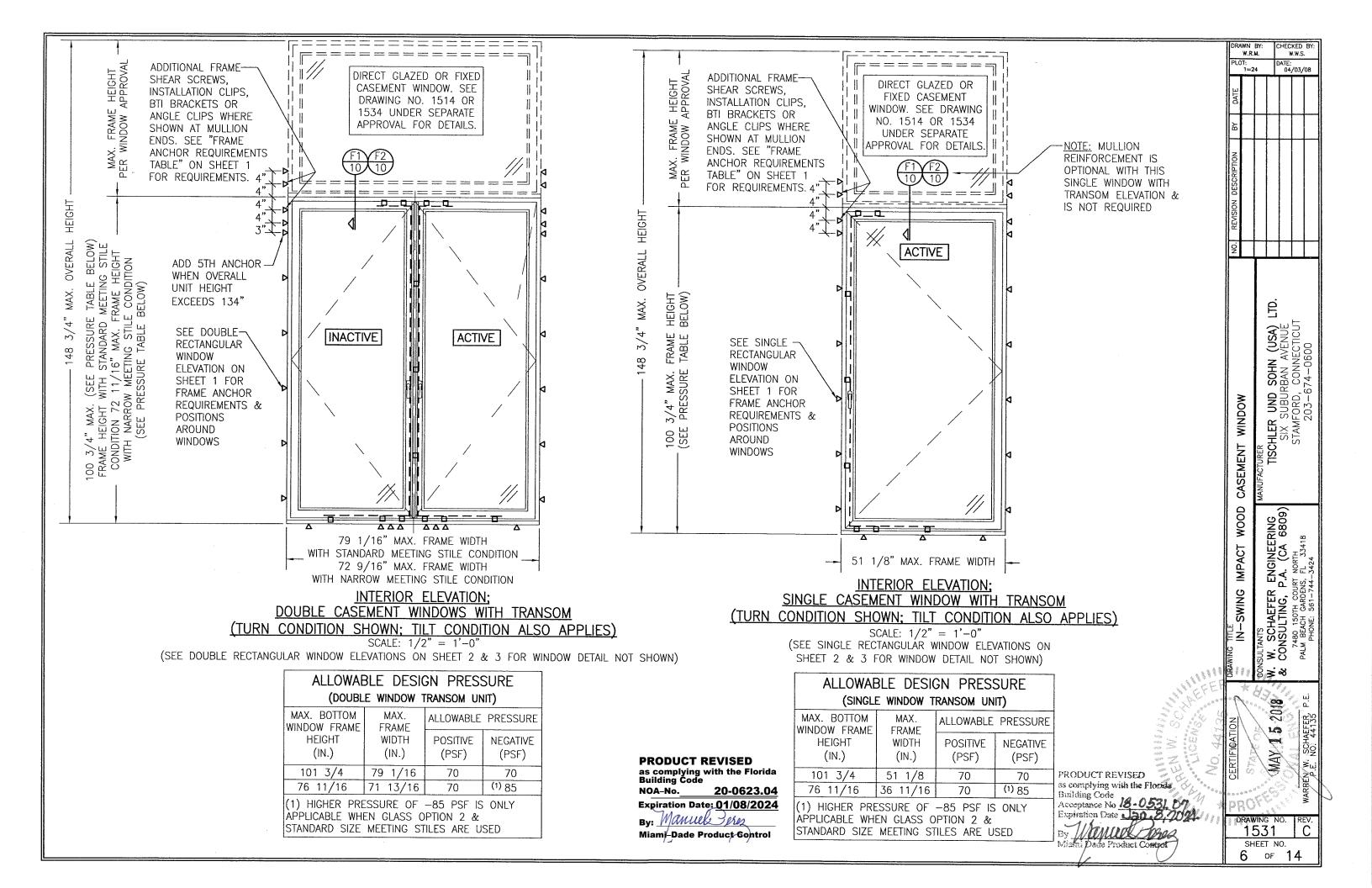
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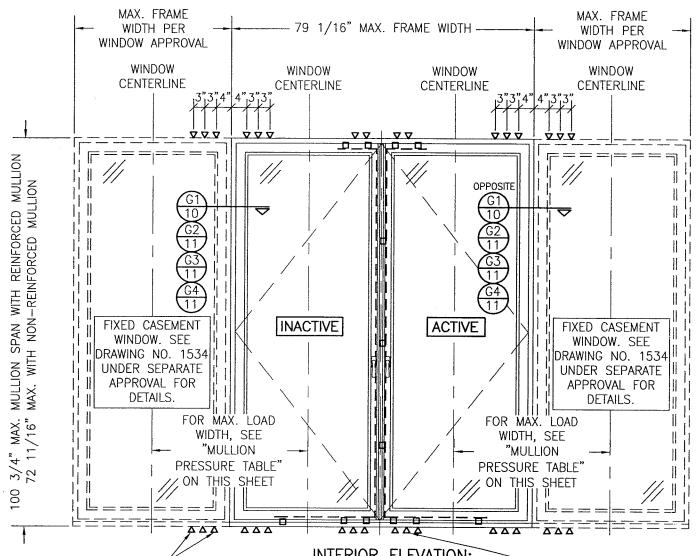
ATE: 04/03/08











ADDITIONAL FRAME SHEAR SCREWS, INSTALLATION CLIPS, BTI BRACKETS OR ANGLE CLIPS WHERE SHOWN AT MULLION TABLE" ON SHEET 1 FOR REQUIREMENTS. (SEE MULLION PRESSURE TABLE FOR REQUIRED QUANTITY OF ANCHORS AT

MULLION ENDS)

INTERIOR ELEVATION; DOUBLE WINDOW UNIT WITH SIDELITES

ANGLE CLIPS WHERE SHOWN AT MULLION SCALE: 1/2" = 1'-0"
ENDS. SEE "FRAME ANCHOR REQUIREMENTS OXXO UNIT IS SHOWN. ALL OTHER FIXED/OPERABLE COMBINATIONS ALSO APPLY WITH THE MULLION CONDITIONS SHOWN.

SEE INDIVIDUAL WINDOW ELEVATIONS FOR FRAME ANCHOR REQUIREMENTS & POSITIONS AROUND WINDOWS

# **MULTIPLE UNIT NOTES:**

- 1. FOR ALL DETAIL NOT SHOWN, INDIVIDUAL WINDOW ELEVATIONS.
- 2. THERE IS NO LIMIT ON THE NUMBER OF WINDOWS THAT MAY BE COMBINED IN ONE DIRECTION INTO ONE OPENING PROVIDING THE OPENING IS DESIGNED TO SUPPORT ALL LOADS TRANSFERED FROM THE WINDOWS & THEIR MULLIONS.
- 3. ANY COMBINATION OF FIXED/OPERABLE WINDOWS IN ONE OPENING SHALL APPLY.
- 4. SHAPED WINDOWS ALSO APPLY TO SIDE MULLING (WHEN APPLICABLE) UNDER THE SAME RESTRICTIONS SHOWN.
- 5. MULLIONS MAY BE A 1-PIECE SECTION OR JAMB TO JAMB. SEE SECTIONS G1 THROUGH G4 FOR DETAIL.

# **PRODUCT REVISED** as complying with the Florida Building Code NOA-No. 20-0623.04 Expiration Date: 01/08/2024

By: Manuel Peres

Miami-Dade Product Control

PRODUCT REVISED as complying with the Florida Building Code Acceptance No 18 Expiration Date Van

MAXIMUM	MAXIMUM	ALLOWABLE PI		PRESSURE (+/- PSF)			PRESSURE (+/- PSF)		PLOT:	=24	DATE 04	:	 8
MULLION	LOAD	NON-REINFORCED			REINFORCED			TT		ŤΤ			
SPAN	WIDTH		4 OR 6 END		4 END		S END						
(IN.)	(IN.)	ANCH			HORS		HORS		$\perp \downarrow$		Ш		
		POS.	NEG.	POS.	NEG.	POS.	NEG.	ե					
	51	N/A	N/A	46.5	46.5	53.8	53.8		++	+	₩		
	49	N/A	N/A	49.3	49.3	57.1	57.1	z		. 1	$\  \cdot \ $		
101	43	N/A	N/A	56.2	56.2	65.1	65.1	DESCRIPTION					
101	37	N/A	N/A	65.3	65.3	70.0	75.2	ESC		,			
	31	N/A	N/A	70.0	78.0	70.0	85.0			.			
	25	N/A	N/A	70.0	85.0	70.0	85.0	REVISION					
	51	N/A	N/A	48.9	48.9	56.7	56.7	Æ					
	49	N/A	N/A	51.9	51.9	60.1	60.1	Š.	╁┤	$\dashv$	H		
96	43	N/A	N/A	59.2	59.2	68.5	68.5	Z	╁		Щ	_	
30	37	N/A	N/A	68.8	68.8	70.0	79.6						
	31	N/A	N/A	70.0	82.1	70.0	85.0						
	25	N/A	N/A	70.0	85.0	70.0	85.0			<u>ن</u>			
	51	N/A	N/A	55.9	55.9	64.7	64.7		1	<u> </u>	<b></b>		
	49	N/A	N/A	59.3	59.3	68.7	68.7		'	⋛≝	CC		
84	43	N/A	N/A	67.6	67.6	70.0	78.3		١,	<u>5</u>	E C	2	
	37	N/A	N/A	70.0	78.6	70.0	85.0			o ≥	ONNEC	Š	
	31	N/A	N/A	70.0	85.0	70.0	85.0			SOHN RBAN A	CONNE	+	
	51	N/A	N/A	61.0	61.0	70.0	70.6	$\ \ $	1	Œ	ຸ່ ແ	ò	
77	49	N/A	N/A	64.7	64.7	70.0	75.0	WINDOW	į.	SUBU SUBU	FORD,	5	
''	43	N/A	N/A	70.0	73.8	70.0	85.0	B	- 6	ഗ	A S	7	
	37	N/A	N/A	70.0	85.0	70.0	85.0	∥ ≅		ISCHLER SIX	STAM		
	51	54.7	54.7	64.6	64.6	70.0	74.8	卢	ER	넜	()		
	49	56.7	56.7	68.5	68.5	70.0	79.3		TUR	Ĕ			
72 3/4	43	62.0	62.0	70.0	78.1	70.0	85.0	SE	JFAC				
/2 3/ 1	37	70.0	70.0	70.0	85.0	70.0	85.0	CASEMENT	MANUFACTURER				
	31	70.0	80.7	70.0	85.0	70.0	85.0	H	F	R ENGINEERING P.A. (CA 6809)			
	25	70.0	85.0	70.0	85.0	70.0	85.0	WOOD		မွစ္ကို			
	51	66.9	66.9	70.0	70.1	70.0	81.2			<u>≅</u> ∞	8		
	49	69.0	69.0	70.0	74.4	70.0	85.0	占		買る	334 334		
67	43	70.0	74.9	70.0	84.8	70.0	85.0	IMPACT		₫`.	중인	3424	
	37	70.0	83.7	70.0	85.0	70.0	85.0	≥		ふる	RT.	14	
	31	70.0	85.0	70.0	85.0	70.0	85.0	ပ္		쫎~	150TH COURT CH GARDENS,	1-7	
	51	70.0	77.0	70.0	77.0	70.0	85.0	₹		HAEFEF ILTING,	₽Ş	26	
	49	70.0	81.7	70.0	81.7	70.0	85.0	TITLE IN-SWING	,,	됐	15( ACH	SNE:	
	43	70.0	85.0	70.0	85.0	70.0	85.0	r .	LTANTS	प्रजू	480 1 BE	Ĭ	
55	51	70.0	85.0	70.0	85.0	70.0	85.0	DRAWING	ULT	¥. SCI CONSU	7480 150TH COURT PALM BEACH GARDENS,		
NOTES:							8	RAW	ONS	≱ જ ≱ જ	_		
1. LOAD WI	DTH IS THE	DISTANC	E BETWEE	EN WIN	IDOW	7			19	<u>~~</u>			

MULLION ALLOWABLE DESIGN PRESSURE

- CENTERLINES.
- 2. ALLOWABLE UNIT PRESSURE SHALL BE THE LESSER OF THE PRESSURES SHOWN IN THIS TABLE & THOSE SPECIFIED FOR THE INDIVIDUAL WINDOW.
- 3. "N/A" DESIGNATES A SIZE NOT APPLICABLE TO THAT REINFORCEMENT CONDITION.
- 4. SIZE VALUES IN TABLE ARE  $\pm -1/2$ "

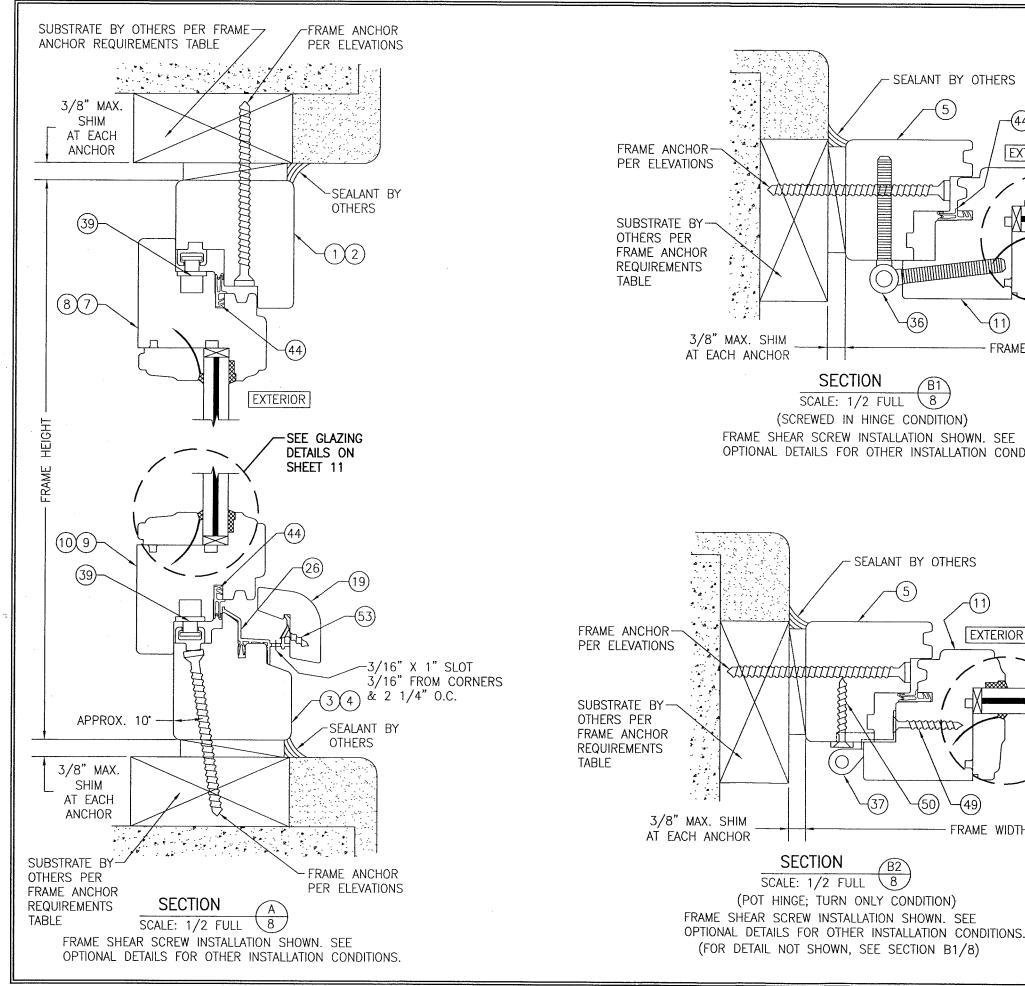
MAY 1531 SHEET NO. 7 of 14

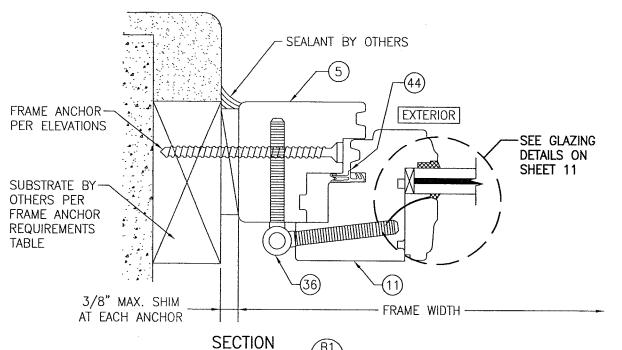
2018

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DRAWN BY: W.R.M.

CHECKED BY:





DRAWN BY:

CHECKED BY: W.W.S.

ATE: 04/03/08

TISCHLER UND SOHN (USA) L SIX SUBURBAN AVENUE STAMFORD, CONNECTICUT 203-674-0600

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

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2018

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DRAWING NO.

SHEET NO. 8 of 14

1531

CASEMENT WINDOW

WOOD

IMPACT

IN-SWING

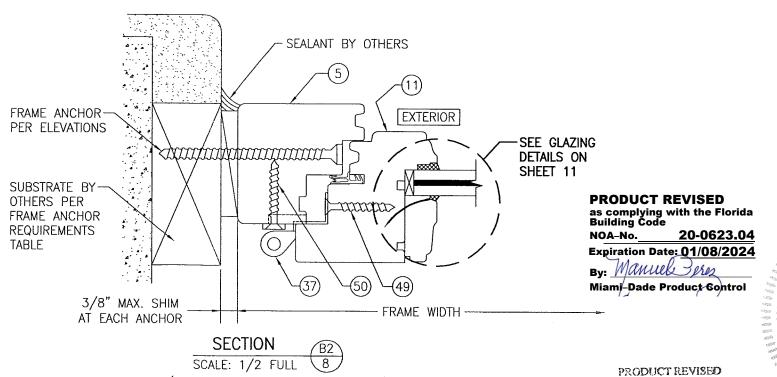
PRODUCT REVISED

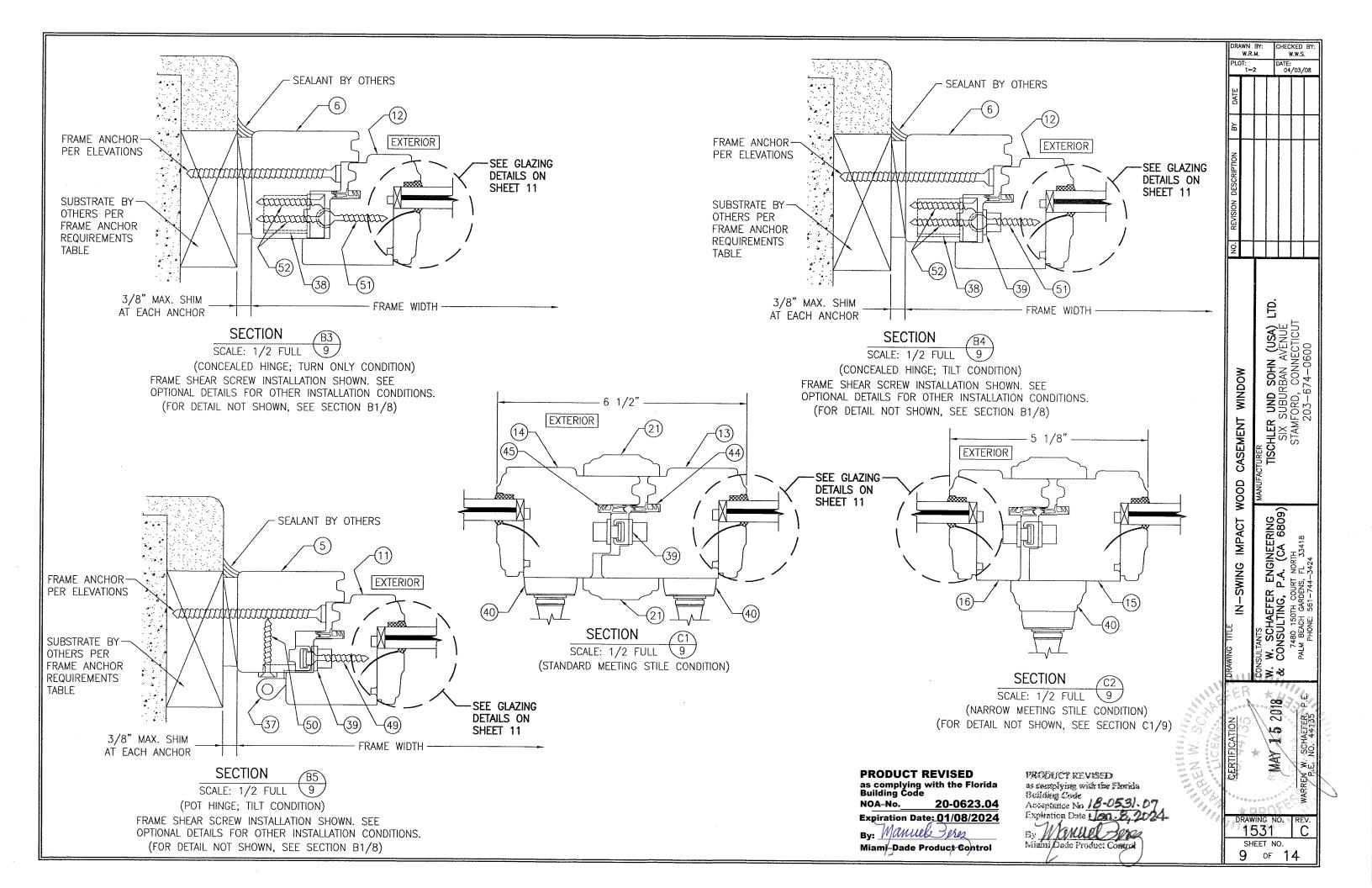
as complying with the Florida

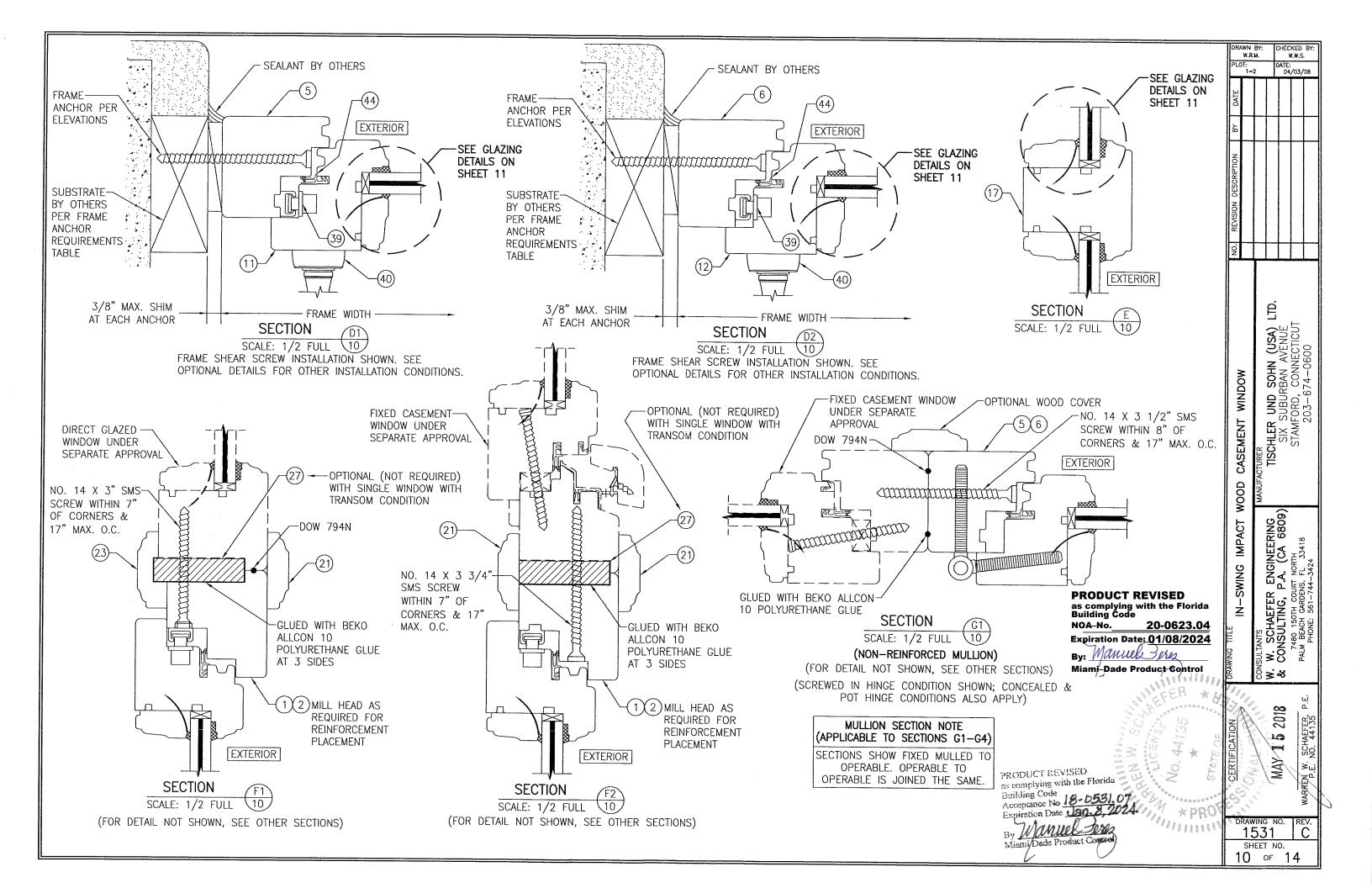
SCALE: 1/2 FULL (SCREWED IN HINGE CONDITION) FRAME SHEAR SCREW INSTALLATION SHOWN. SEE

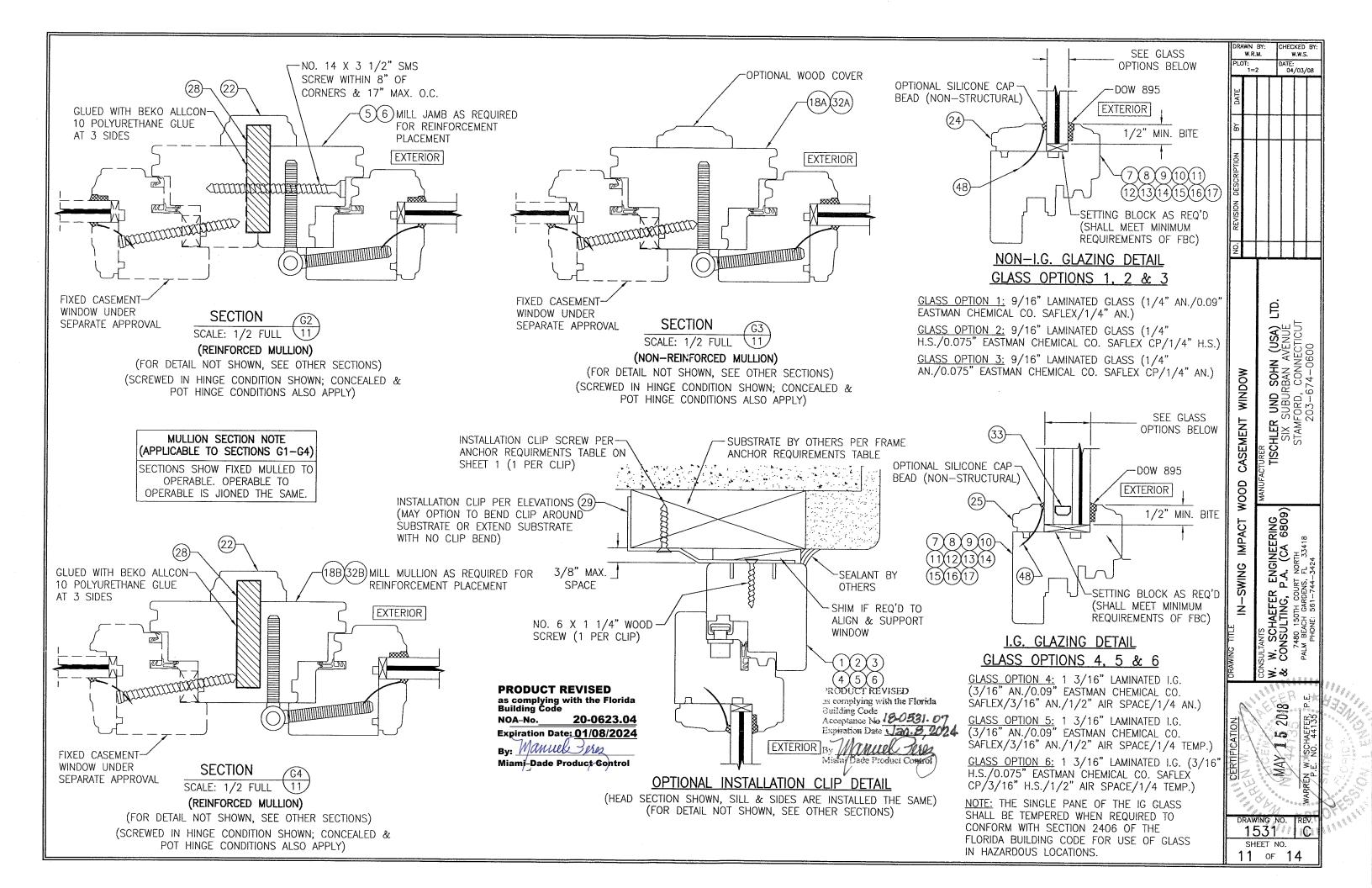
(POT HINGE; TURN ONLY CONDITION)

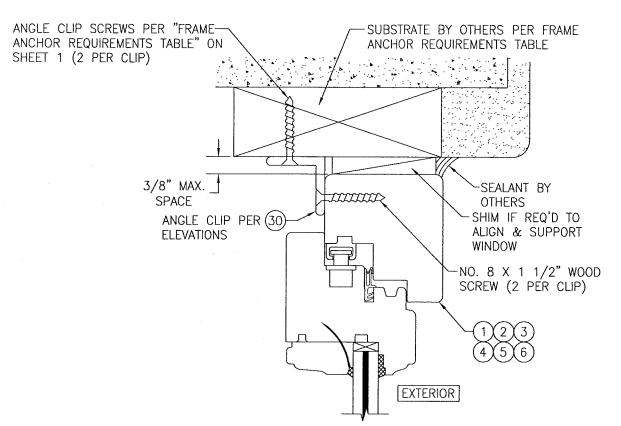
OPTIONAL DETAILS FOR OTHER INSTALLATION CONDITIONS.





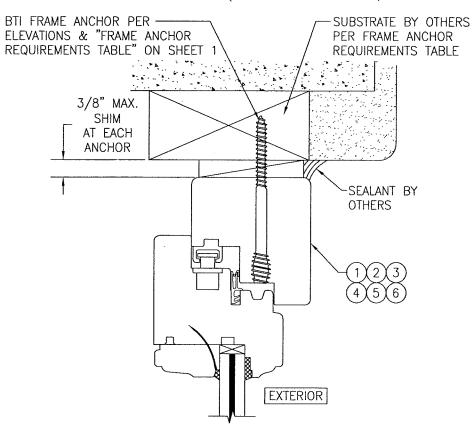






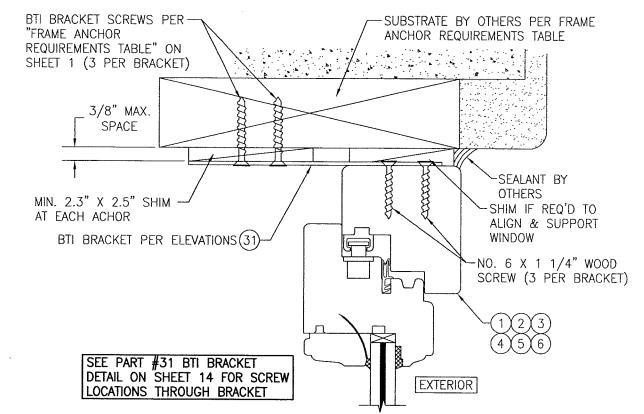
# OPTIONAL INSTALLATION ANGLE CLIP DETAIL

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



# OPTIONAL BTI SCREW DETAIL

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



# OPTIONAL INSTALLATION BTI BRACKET DETAIL

DRAWN BY: W.R.M.

CHECKED BY W.W.S.

04/03/08

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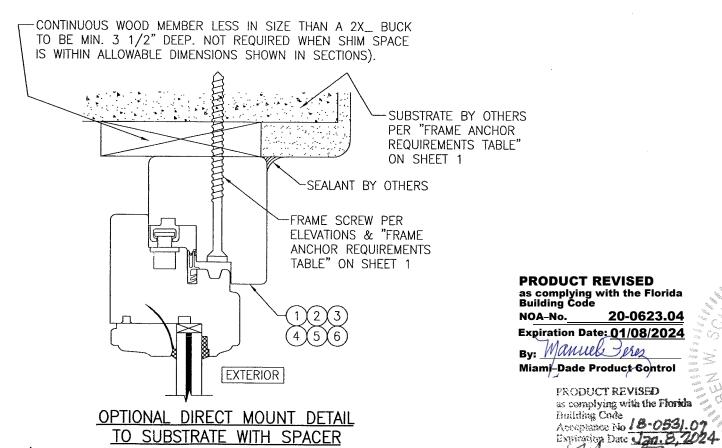
WINDOW

CASEMENT

WOOD

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

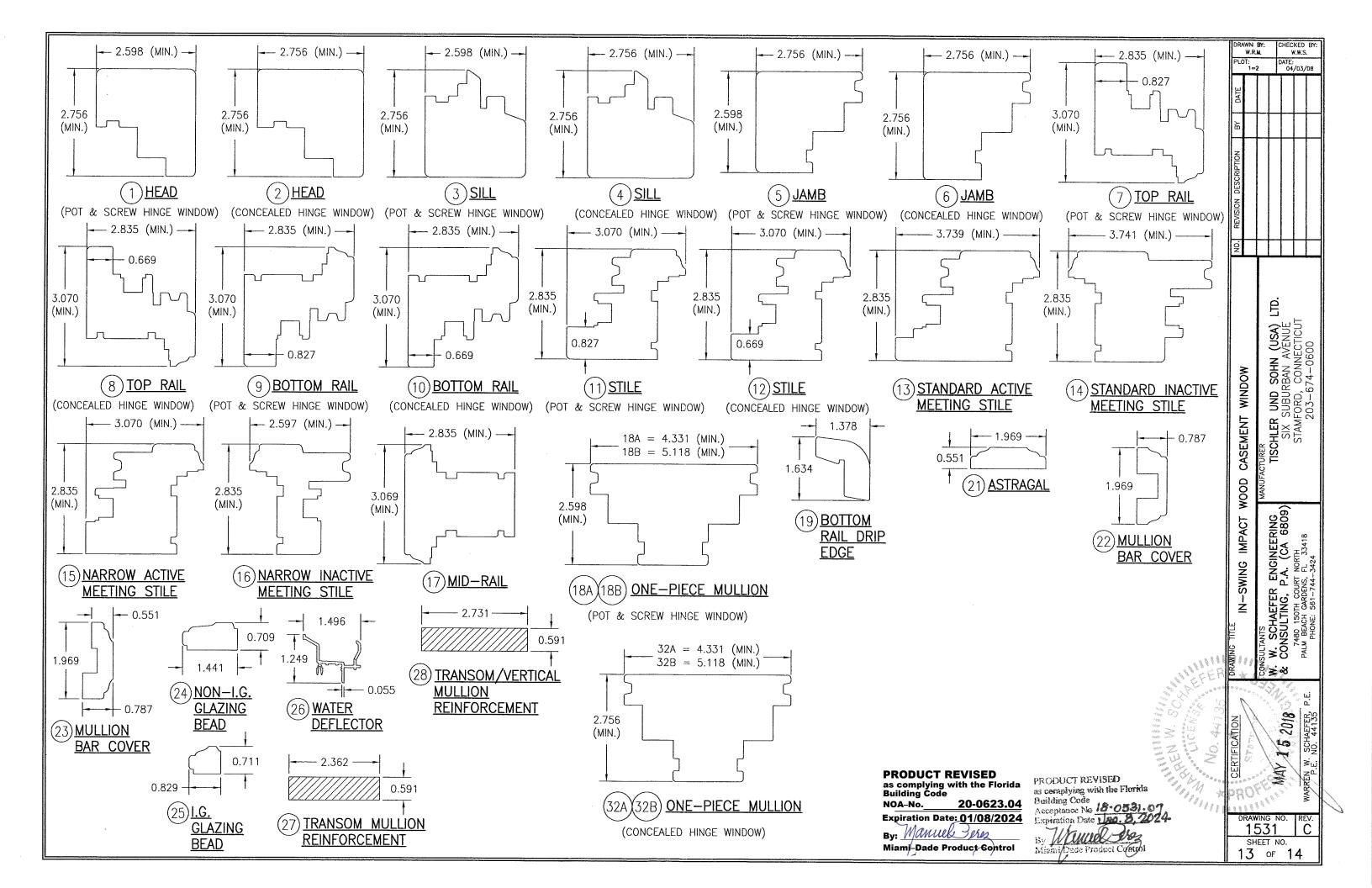
Mitmi/Dade Product Cortol



TO SUBSTRATE WITH SPACER

(HEAD SECTION SHOWN, SILL & SIDES ARE INSTALLED THE SAME)

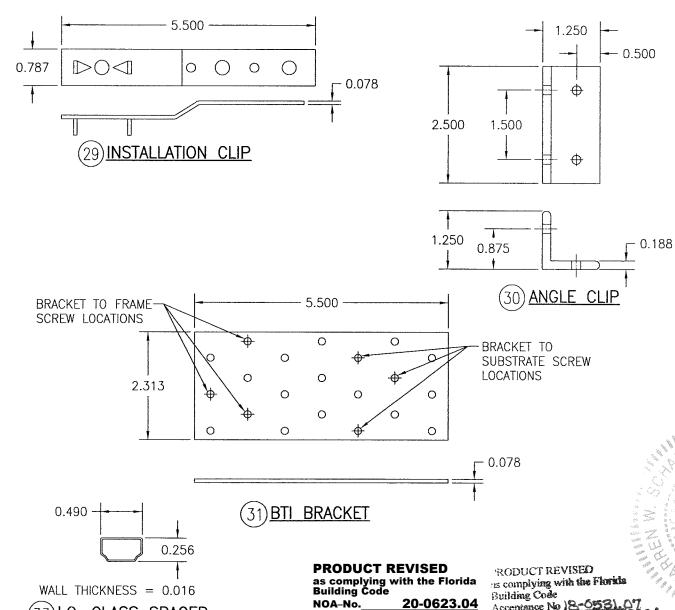
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



ITEM #	all the second of the second o	MANUFACTURER/NOTES
	PARTS	
11	HEAD (POT & SCREW HINGE WINDOW)	MAHOGANY .
2	HEAD (CONCEALED HINGE WINDOW)	MAHOGANY
3	SILL (POT & SCREW HINGE WINDOW)	MAHOGANY
4	SILL (CONCEALED HINGE WINDOW)	MAHOGANY
5	JAMB (POT & SCREW HINGE WINDOW)	MAHOGANY
6	JAMB (CONCEALED HINGE WINDOW)	MAHOGANY
7	TOP RAIL (POT & SCREW HINGE WINDOW)	MAHOGANY
8	TOP RAIL (CONCEALED HINGE WINDOW)	MAHOGANY
9	BOTTOM RAIL (POT & SCREW HINGE WINDOW)	MAHOGANY
10	BOTTOM RAIL (CONCEALED HINGE WINDOW)	MAHOGANY
11	STILE (POT & SCREW HINGE WINDOW)	MAHOGANY
12	STILE (CONCEALED HINGE WINDOW)	MAHOGANY
13	STANDARD ACTIVE MEETING STILE	MAHOGANY
14	STANDARD INACTIVE MEETING STILE	MAHOGANY
15	NARROW ACTIVE MEETING STILE	MAHOGANY
16	NARROW INACTIVE MEETING STILE	MAHOGANY
17	MID-RAIL	MAHOGANY
18A	ONE-PIECE NON-REINFORCED MULLION	MAHOGANY
	(POT & SCREW HINGE WINDOW)	
18B	ONE-PIECE REINFORCED MULLION	MAHOGANY
	(POT & SCREW HINGE WINDOW)	
19	BOTTOM RAIL DRIP EDGE	MAHOGANY
21	ASTRAGAL	MAHOGANY
22	MULLION BAR COVER	MAHOGANY
23	MULLION BAR COVER	MAHOGANY
24	NON-I.G. GLAZING BEAD	MAHOGANY
25	I.G. GLAZING BEAD	MAHOGANY
26	WATER DEFLECTOR	6061-T6 ALUMINUM
27	TRANSOM MULLION REINFORCEMENT	34 KSI STAINLESS STEEL OR A36 STEEL
28	TRANSOM/VERTICAL MULLION REINFORCEMENT	34 KSI STAINLESS STEEL OR A36 STEEL
29	INSTALLATION CLIP	GALVANIZED 54 KSI STEEL
30	ANGLE CLIP	6061-T6 ALUMINUM
31	BTI BRACKET	GALVANIZED 54 KSI STEEL
32A	ONE-PIECE NON-REINFORCED MULLION (CONCEALED HINGE WINDOW)	MAHOGANY
32B	ONE—PIECE REINFORCED MULLION (CONCEALED HINGE WINDOW)	MAHOGANY
33	I.G. SPACER	ALUMINUM
	HARDWARE	
36	SCREWED IN HINGE	74mm X 16mm GENIATEC GMBH; FE 74WF 120mm X 16mm GENIATEC GMBH; TUE 120WF 85mm X 20mm SIMONS BAKA; C1-20 130mm X 15mm ANUBA; 515 SM 130mm X 18mm ANUBA; 518 SM
37	POT HINGE	BY: SIEGENIA AUBI KG TYPE: SI
38	CONCEALED HINGE	BY: SIEGENIA AUBI KG TYPE: UV
39	MULTI-POINT LOCK SYSTEM	BY: SIEGENIA AUBI KG TYPE: MUSHROOM
50	(9mm OR 13mm OFFSET)	The state of the s
40	HANDLE	AS REQUIRED TO OPERATE LOCK SYSTEM
	SEALS & SEALANTS	10 MEGONED TO OF EIGHT LOOK STOTEM
	32 123 & 32 12 1V13	
44	WEATHERSTRIP	THERMOPLASTIC ELASTOMER; BY: DEVENTER

ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
	FASTENERS	
48	OPTIONAL 18 GA. X 1 1/2" S.S. CURVED NAIL	4" FROM CORNERS & 12" MAX. O.C.
49	NO. 8 X 1 1/2" WOOD SCREW	3 PER POT HINGE INTO SASH
50	NO. 8 X 1 1/2" WOOD SCREW	4 PER POT HINGE INTO JAMB
51	NO. 8 X 1 1/2" WOOD SCREW	2 PER CONCEALED HINGE INTO SASH
52	NO. 8 X 1 3/4" WOOD SCREW	4 PER CONCEALED HINGE INTO JAMB
53	NO. 6 X 5/8" WOOD SCREW	2" FROM CORNERS & 4 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 = 1,6000,000 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.



Expiration Date: 01/08/2024

Miami-Dade Product Control

By: Manuel Peres

(33) I.G. GLASS SPACER

us complying with the Florida Building Code Acceptance No 18-0531.07 Expiration Date Jan. 5, 2024

MAY 15 2018 1531 SHEET NO. 14 of 14

CHECKED BY: W.W.S. DATE: 04/03/08

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

CASEMENT WINDOW

WOOD

IN-SWING IMPACT

CONSULTANTS
W. W. SCHAEFER ENGINEERING
& CONSULTING, P.A. (CA 6809)

1=2