

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 "Single & Double Hung" Wood Fixed Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. **1829**, titled "Double Hung Fixed Impact Window" sheets 1 through 9 of 9, dated 07/02/12, with revision **A1** dated 07/21/17, 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# 17-0807.24** 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.

7/21/20

NOA No. 20-0623.08 Expiration Date: June 13, 2023 Approval Date: July 30, 2020 Page 1

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. 13-0304.09)*
- Drawing No. 1829, titled "Double Hung Fixed Impact Window" sheets 1 through 9 of 9, dated 07/02/12, with revision A1 dated 07/21/17, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E. (Submitted under NOA No. 17-0807.24)

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 hung window, prepared by Architectural Testing, Inc., Test Report No. **ATI-C262.01-109-18**, dated 11/20/12, signed and sealed by Michael D. Stremmel, P.E. *(Submitted under NOA No. 13-0304.09)*

C. CALCULATIONS

- Anchor verification calculations and structural analysis, complying with FBC 6th Edition (2017), dated 09/27/12 and updated on 07/20/17, prepared by W.W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E. (Submitted under NOA No. 17-0807.24)
- 2. Glazing complies with **ASTM E1300-09**.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

 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.

Manuel Pérez, P.E. Product Control Examiner NOA No. 20-0623.08 Expiration Date: June 13, 2023 Approval Date: July 30, 2020

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS

- Statement letter of conformance, complying with FBC 5th Edition (2014) and with FBC 6th Edition (2017), dated July 20, 2017, issued by W.W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E. (Submitted under NOA No. 17-0807.24)
- 2. Statement letter of no financial interest and independence, dated July 20, 2017, issued by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E.

(Submitted under NOA No. 17-0807.24)

3. Laboratory compliance letter for Test Report No. **ATI-C262.01-109-18**, issued by Architectural Testing, Inc., dated 11/20/12, signed and sealed by Michael Stremmel, P.E.

(Submitted under NOA No. 13-0304.09)

4. 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. 13-0304.09)*

G. OTHERS

1. Notice of Acceptance No. 14-0428.18, issued to Tischler und Sohn (USA) Ltd. for their Series Single & Double Hung Wood Fixed Window – L.M.I., approved on 07/10/14 and expiring on 06/13/18.

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Manuel Perez, P.E. Product Control Examiner NOA No. 20-0623.08 Expiration Date: June 13, 2023 Approval Date: July 30, 2020

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.

F. STATEMENTS

Statement letter of conformance, complying with FBC 6th Edition (2017) and FBC 7th 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. 17-0807.24, issued to Tischler und Sohn (USA) Ltd. for their Series Single & Double Hung Wood Fixed Window – L.M.I., approved on 10/26/17 and expiring on 06/13/23.

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Manuel Pérez, P.E. Product Control Examiner NOA No. 20-0623.08 Expiration Date: June 13, 2023 Approval Date: July 30, 2020

GENERAL NOTES:

1. 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 2. 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).

6. IMPACT SHUTTERS ARE NOT REQUIRED WITH THIS PRODUCT. 7. 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 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 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.

11. AII 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.

FRAME AND	HOR 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. 16 GA. 33 KSI METAL STUD	1/4" GR. 5 SELF TAP/DRILLING SCREW	FULL	1/2"	
MIN. 1/8" THK A36 STEEL	1/4" GR. 5 SELF TAP/DRILLING SCREW	FULL	1/2"	
MIN. 1/8" THK 6063-T5 ALUM.	1/4" GR. 5 SELF TAP/DRILLING SCREW		1/2"	
(3) C-90 CMU	(1) 1/4" CONCRETE SCREW	1 1/4"	2"	ALLOWABLE DESIGN PRESSUR
2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 3/4"	2"	(ALL WINDOW CONDITIONS)
INSTA	LLATION CLIP SCREWS			+/-70 PSF
(2) MIN. 2X_ WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 12 SMS OR WOOD SCREW	1 3/8"	3/4"	
MIN. 16 GA. 33 KSI METAL STUD	NO. 12 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"	
MIN. 1/8" THK A36 STEEL	NO. 12 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"	
MIN. 1/8" THK 6063-T5 ALUM.	NO. 12 GR. 5 SELF TAP/DRILL SCREW		1/2"	
(3) C-90 CMU	(1) 1/4" CONCRETE SCREW	1 1/4"	2"	
2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 3/4"	2"	
BT	I BRACKET SCREWS			
(2) MIN. 2X_ WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 SMS OR WOOD SCREW	1 3/8"	3/4"	
MIN. 18 GA. 33 KSI METAL STUD	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"	
MIN. 1/8" THK A36 STEEL	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"	-
MIN. 1/8" THK 6063-T5 ALUM.	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"	4
AI	ANGLE CLIP SCREWS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 SMS OR WOOD SCREW	1 5/16'	' 1/2"	CORNER CONSTRUCTION: FRAME CORNERSMULLION ENDS: SQUARE CUT, BUTTED AND JOINED
MIN. 1/8" THK A36 STEEL	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"	WITH THREE(3) NO. 10 X 2" WOOD SCREWS THROUGH THE HORIZONTAL MEMBERS INTO THE VERTICAL MEMBERS & GLUED
MIN. 1/8" THK 6063-T5 ALUM.	NO. 8 GR. 5 SELF TAP/DRILL SCREW		1/2"	WITH OTTOSEAL M360 WOOD GLUE OR EQUIVALENT. MULLION ENDS: SQUARE CUT, BUTTED AND JOINED WITH TWO(2)
(1) CONCRETE SCREWS SHALL BE ELCO HILTI KWIK-CON II (C.S OR S.S.).				NO. 10 X 2" WOOD SCREWS THROUGH THE HORIZONTAL MEMBERS INTO THE VERTICAL MEMBERS & GLUED WITH OTTOSEAL M360 WOOD GLUE OR EQUIVALENT.
(2) 2X_ BUCKS SHALL BE OF A MINIMUM REQUIREMENTS		DGE DIST/	ANCE	SASH CORNERS: SQUARE CUT, BUTTED AND JOINED WITH FOUR(4) 5/16"# X 1 1/2" WOOD DOWELS & GLUED WITH PONAL SUPER 3 WOOD GLUE OR EQUIVALENT.
(3) CMU IS NOT APPLICABLE AT HEAD OF				

ALLOWABLE DESIGN PRESSURE (ALL WINDOW CONDITIONS) +/-70 PSF

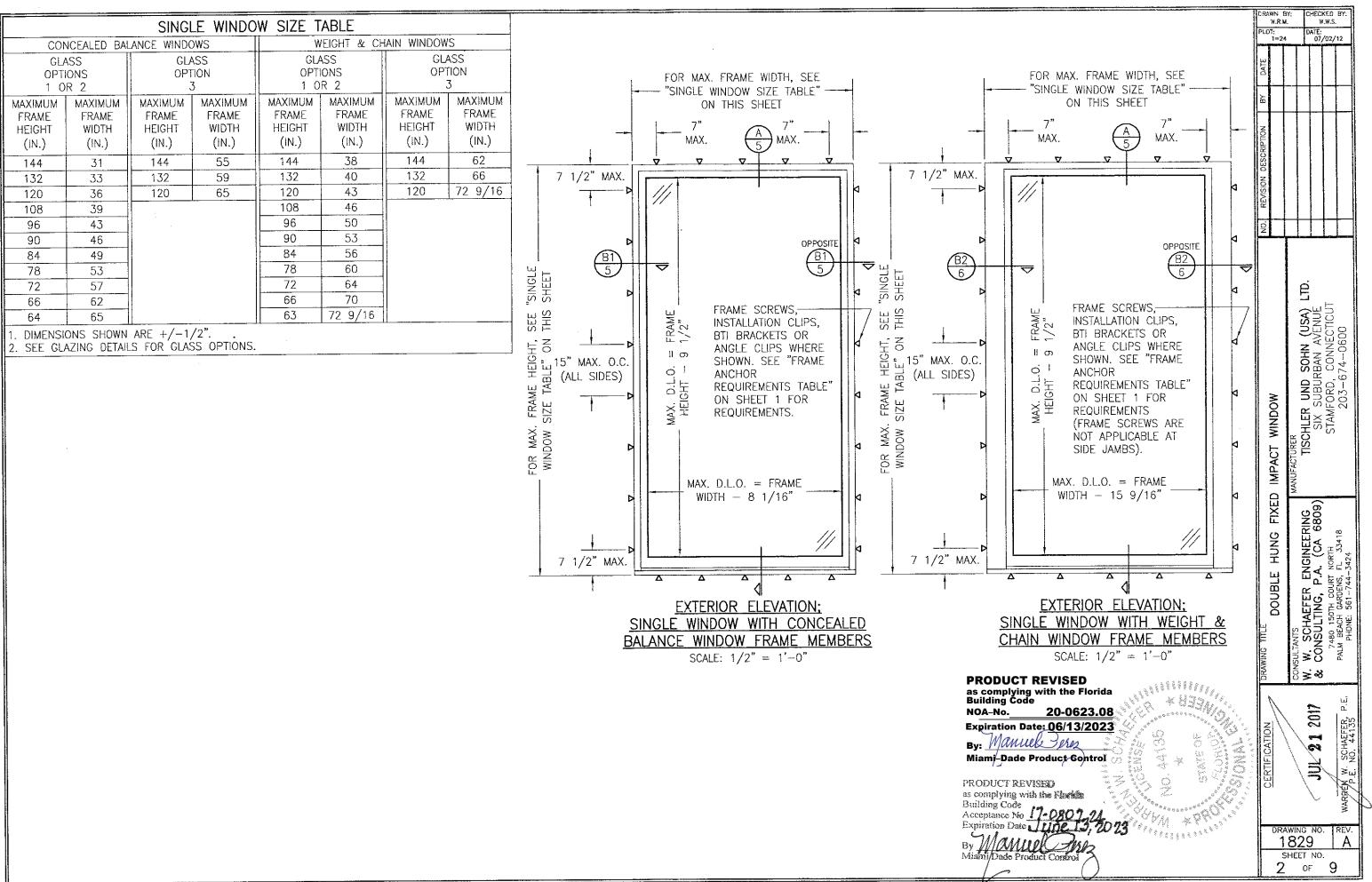
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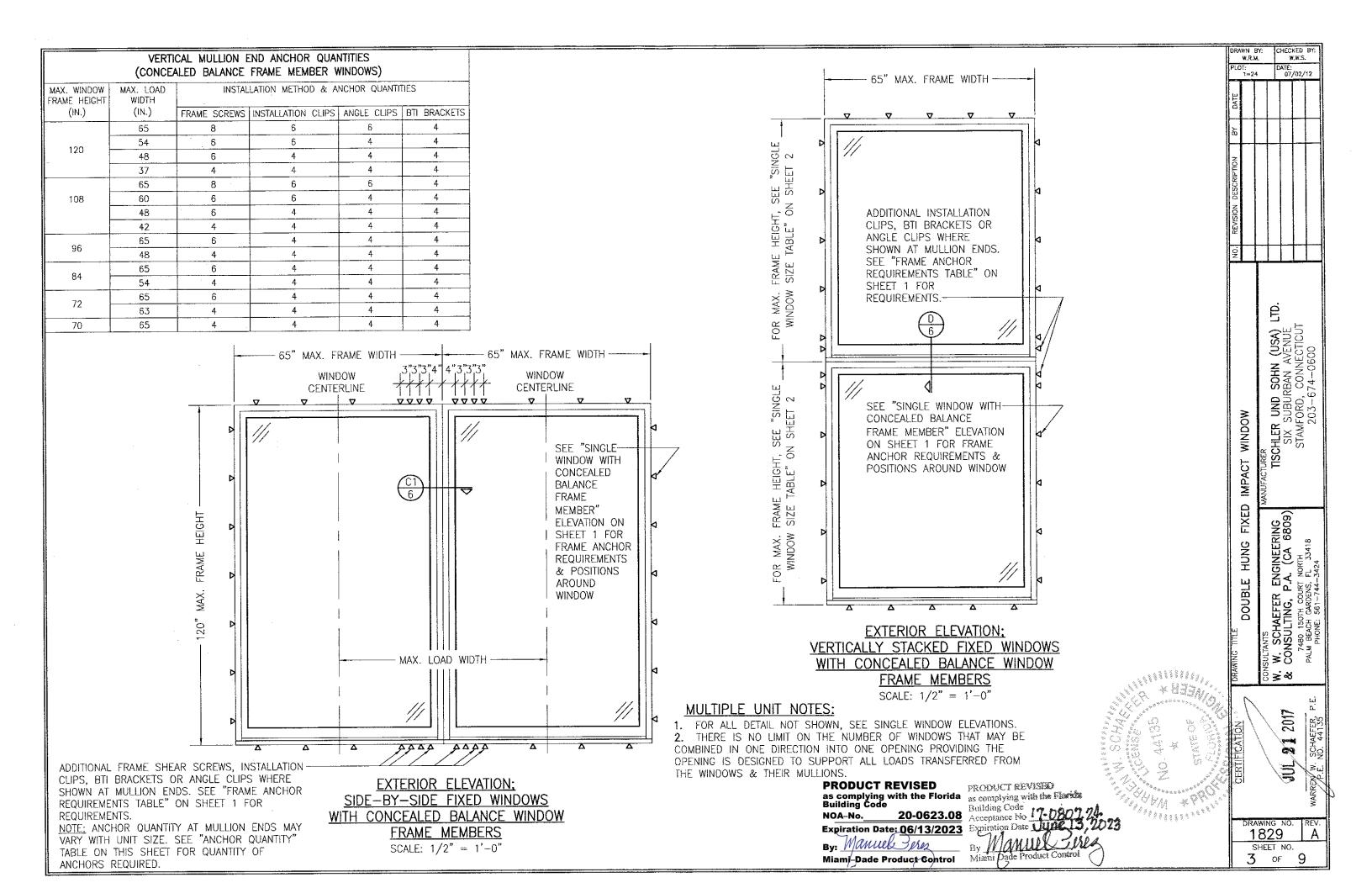
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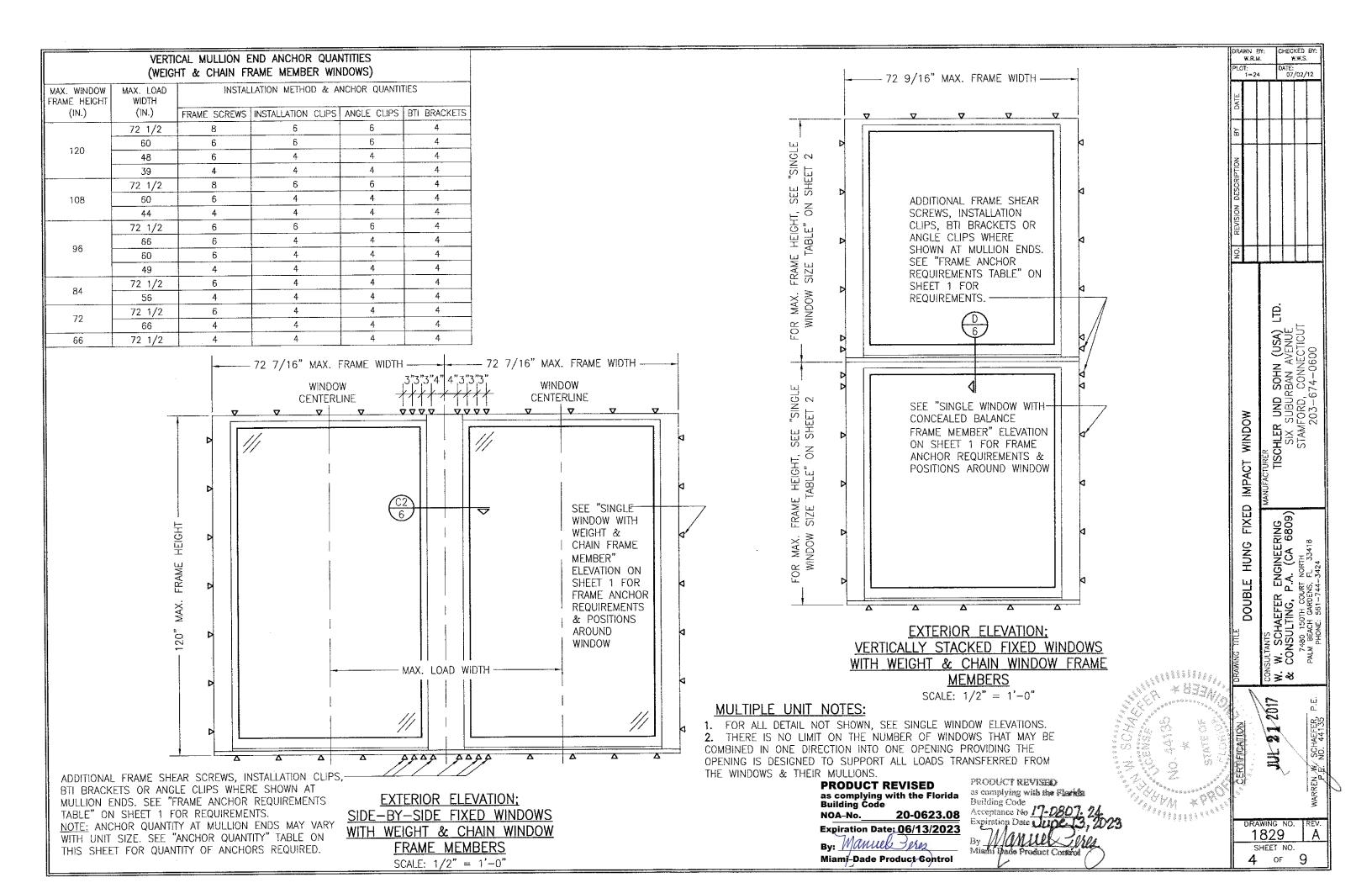
By: Manuel Miami-Dade P

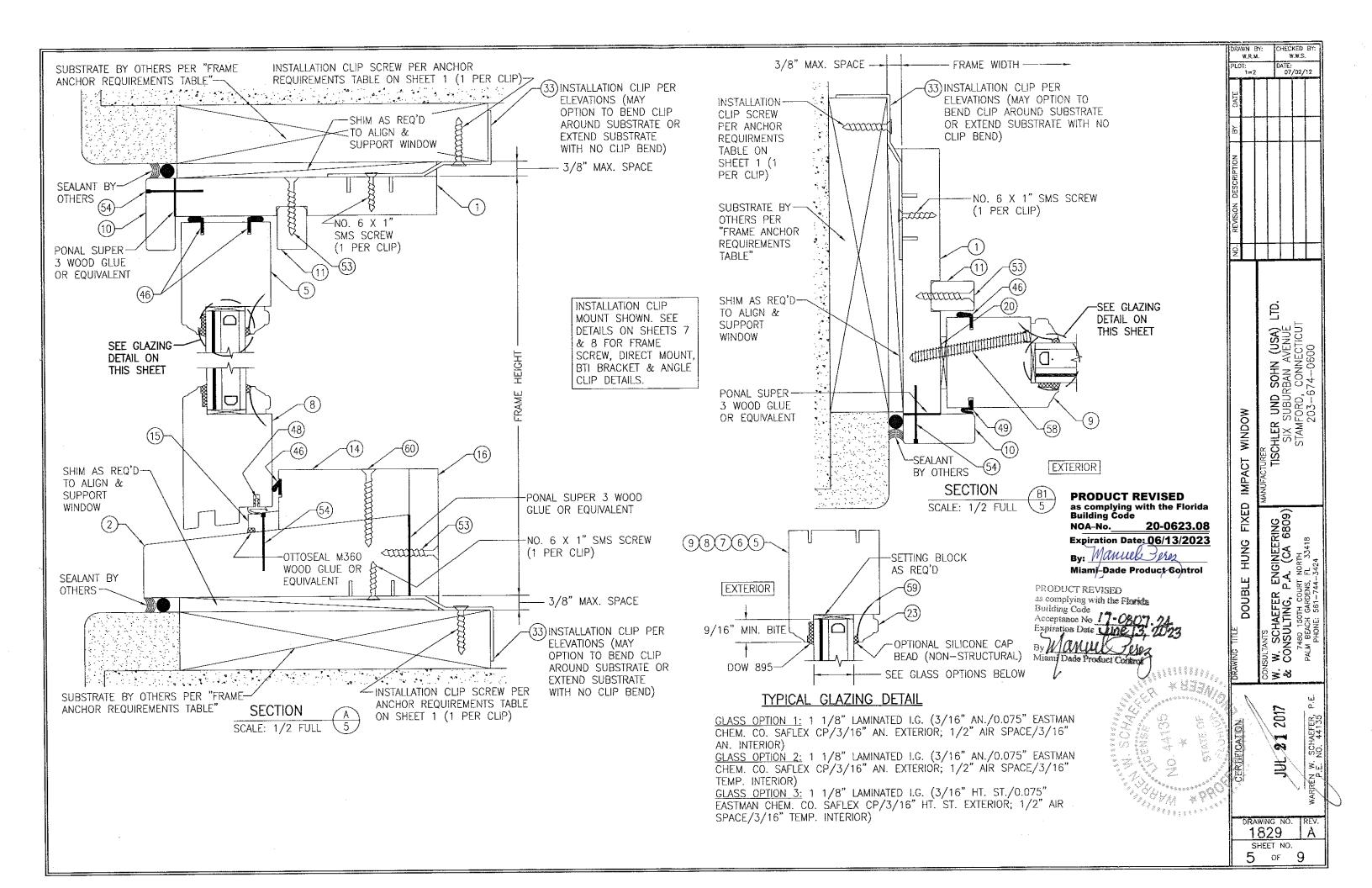
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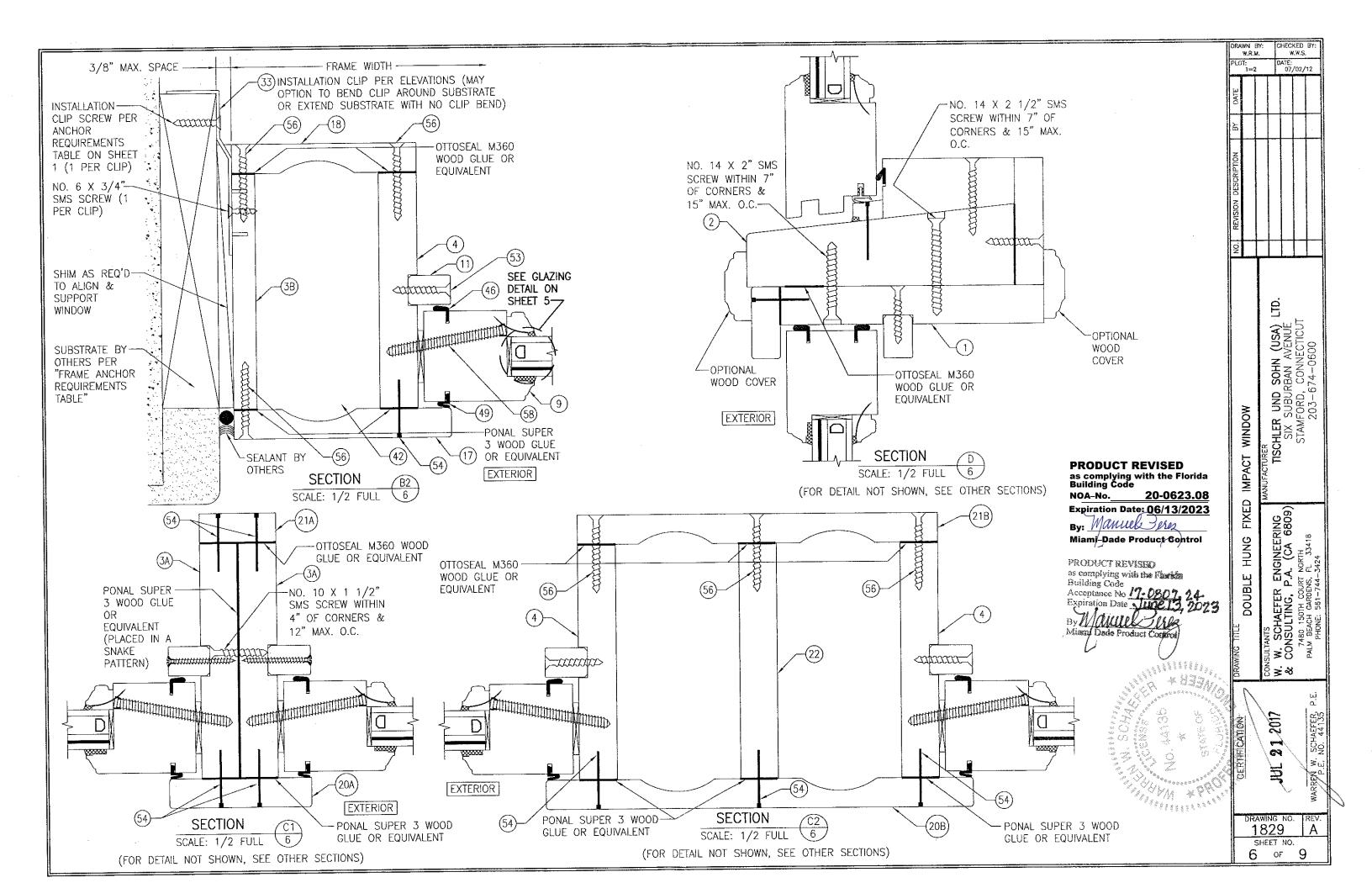
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SPECIFIED. THEY MAY NOT BE USED FOR THE ASSEMBLY AND/OR INSTALLATION OF ANY OTHER PRODUCT NOR MAY THEY BE USED FOR RATIONAL AND/OR LOCAL APPROVAL	W.R.M PLOT: 1=24	DATE:	
OF ANY PRODUCT NOT PRODUCED BY THE MANUFACTURER STATED ON THESE DRAWINGS.			
	DATE 07/21/17		
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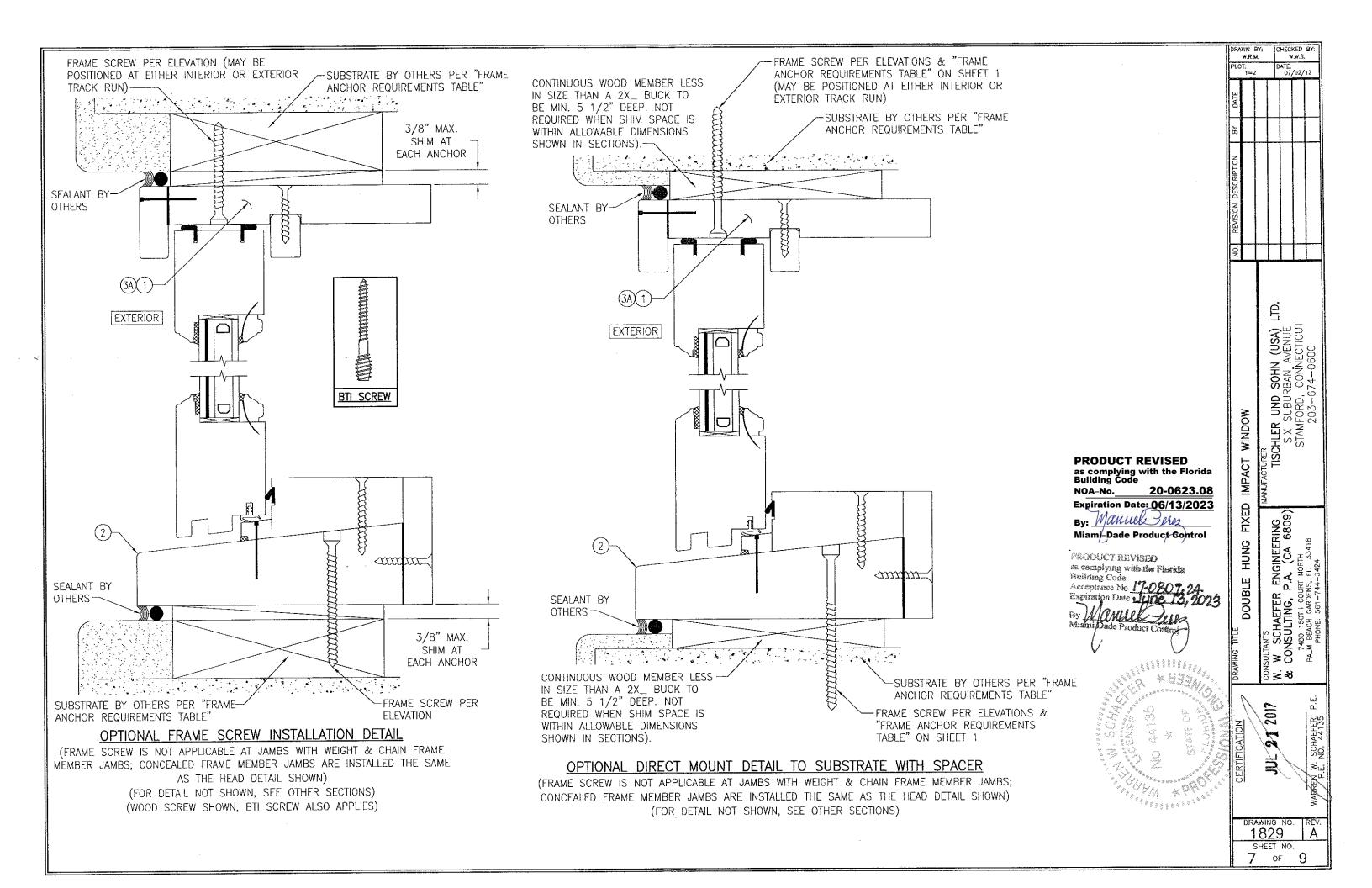


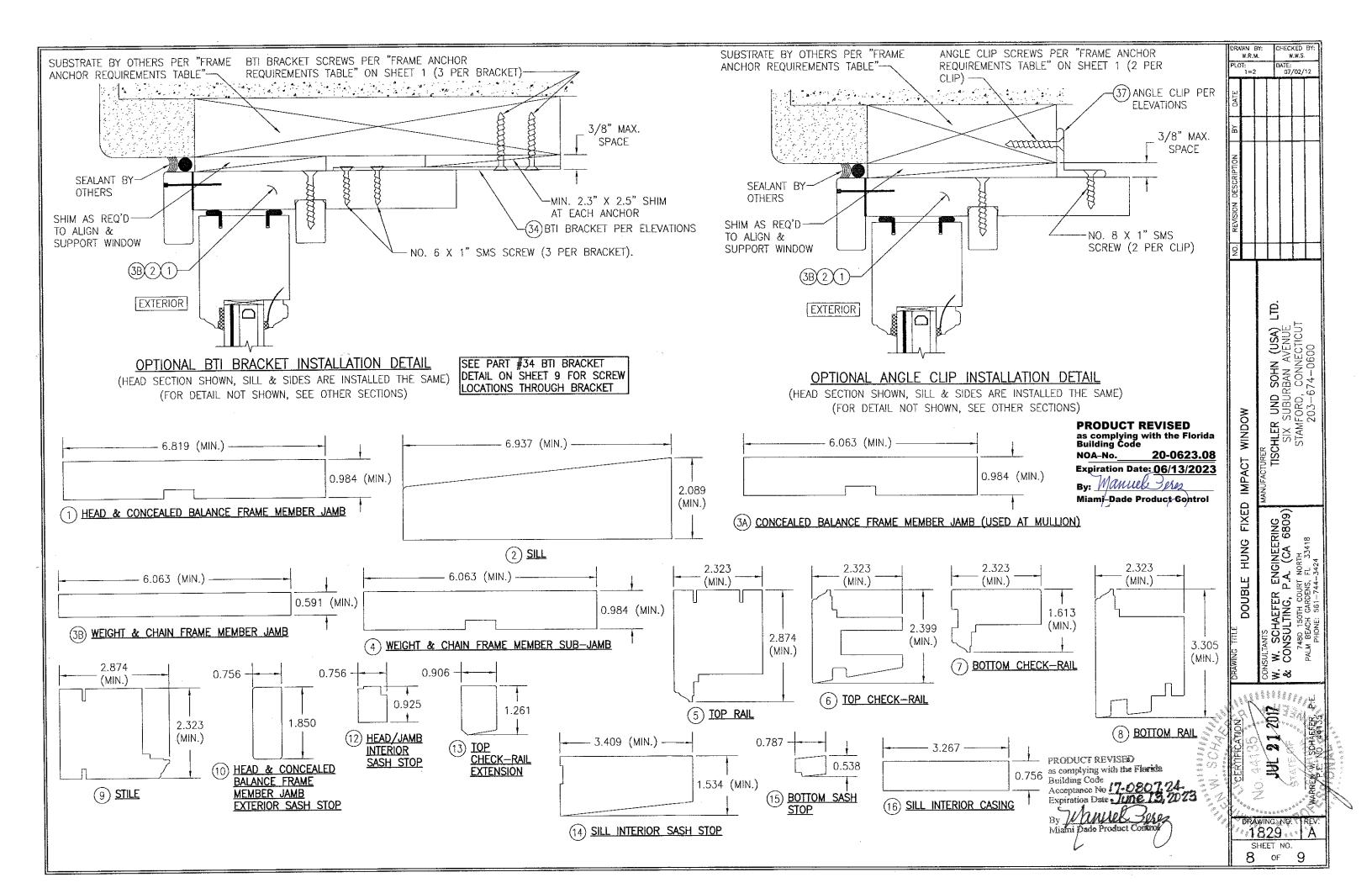












ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES		
	PARTS		5.630	- 4.764
	HEAD & CONCEALED BALANCE FRAME MEMBER JAMB	WOOD		
2	SILL	WOOD	0.756	
· 3A	CONCEALED BALANCE FRAME MEMBER JAMB	WOOD		
- JA	(USED AT MULLION)		17 WEIGHT & CHAIN FRAME MEMBER JAMB EXTERIOR SASH STOP	<u>RERIOR</u> SASH
ЗB	WEIGHT & CHAIN FRAME MEMBER JAMB	WOOD		ILMUN SASH
4	WEIGHT & CHAIN FRAME MEMBER SUB-JAMB	WOOD	3.701	
5	TOP RAIL	WOOD		11.063
6	TOP CHECK-RAIL	WOOD	0.756	÷ !
7	BOTTOM CHECK-RAIL	WOOD		
8	BOTTOM RAIL	WOOD	(20A) CONCEALED BALANCE FRAME	
9	STILE	WOOD	<u>MEMBER EXTERIOR MULLION</u>	
10	HEAD & CONCEALED BALANCE FRAME MEMBER JAMB	WOOD	(20B) WEIGHT & CHAIN FF	RAME MEMBER
	EXTERIOR SASH STOP		0.771	
11	PARTING STOP	WOOD	9.331	
12	HEAD/JAMB INTERIOR SASH STOP	WOOD		
13	TOP CHECK-RAIL EXTENSION	WOOD	0.756	S
14	SILL INTERIOR SASH STOP	WOOD		
15	BOTTOM SASH STOP	WOOD		<u> </u>
16	SILL INTERIOR CASING	WOOD	(21B) WEIGHT & CHAIN FRAME MEMBER MULLION INTERIOR SASH STOP	(22) <u>WEIGHT</u> INTERM
17	WEIGHT & CHAIN FRAME MEMBER JAMB	WOOD		INTERM
	EXTERIOR SASH STOP		0.630 1.575 0.15	, .
18	WEIGHT & CHAIN FRAME MEMBER JAMB	WOOD		′
	INTERIOR SASH STOP		0.709	0.707
20A	CONCEALED BALANCE FRAME MEMBER EXTERIOR	WOOD	1.338	0.787 [
	MULLION COVER		(23) GLAZING BEAD (29) TOP CHECK-RAIL	
20B	WEIGHT & CHAIN FRAME MEMBER JAMB EXTERIOR	WOOD	23 GLAZING BEAD 29 TOP CHECK-RAIL 24 SASH BLOCK	
	MULLION COVER			<u></u>
21A	CONCEALED BALANCE FRAME MEMBER INTERIOR	WOOD		
	MULLION COVER		BRACKET TO 5.500	
21B	WEIGHT & CHAIN FRAME MEMBER JAMB EXTERIOR	WOOD	FRAME SCREW	
 	MULLION COVER		OCATIONS(MAY BE AT ANY	
22	WEIGHT & CHAIN FRAME MEMBER MULLION	WOOD		07
	INTERMEDIATE FRAME			
23	GLAZING BEAD	WOOD	-1 SUREWS ARE $+1$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$	0
24	SASH BLOCKING	WOOD	PLACED IN A O O)
29	TOP CHECK-RAIL REINFORCEMENT	34 KSI STAINLESS STEEL OR A36 STEEL	PATTERN AS	0
33	INSTALLATION CLIP	GALVANIZED 54 KSI STEEL	SHOWN)	
34	BTI BRACKET	GALVANIZED 54 KSI STEEL 6061-T6 ALUMINUM		1
	ANGLE CLIP	OUDITIO ALUMINUM		
	SEALS & SEALANTS	SCHLEGEL QWS-250		P
46		SCHLEGEL QWS-230 SCHLEGEL QFS-375		as Bu
47		DEVENTER S6961		Bi
48	SILL WEATHERSTRIP	SCHLEGEL QL-3055		Ex
49	FASTENERS	JUNILLULL VL JUJU	2.500 1.500 0.500	
E 7	NO. 8 X 1 1/2" SMS OR WOOD SCREW	WITHIN 2" FROM CORNERS & 12" MAX. O.C.		B) Mi
53	18 GA. X 1 1/2" S.S. BRAD NAIL	WITHIN 2" FROM CORNERS & 12" MAX. O.C.		IVI
54	NO. 10 X 2" SMS OR WOOD SCREW	WITHIN 2" FROM ENDS & ONE AT MID-SPAN		#R
1	NO. 14 X 3 1/8" BAUTEC WOOD SCREW	WITHIN 2 FROM CORNERS & 12" MAX. O.C.		arts Ass
58 59	18 GA. X 1 1/2" S.S. CURVED NAIL	WITHIN 4" FROM CORNERS & 12" MAX. O.C.		in the second se
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	NITH A SPECIFIC GRAVITY OF 0.62 AND MODULUS OF E	ASTICITY OF 1,600,000 PSI OR GREATER. ALL WO	OD IS THIS SIDE GOES	AGAINST Mi
	MINIMUM GRADE 2 MILLED BY TISCHLER UND SOHN TO	SELECT.	37 ANGLE_CLIP THIS SIDE GOES WINDOW FRAME	
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