



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

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
T (786) 315-2590 F (786) 315-2599

NOTICE OF ACCEPTANCE (NOA)

www.miamidade.gov/economy

Sunshine Windows Manufacturing, Inc.
1745 W. 33rd Place
Hialeah, FL 33012

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 "1650 (XOX)" Aluminum Horizontal Sliding Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. **HR08-02**, titled "Series 1650 Aluminum Horizontal Sliding Window (XOX) Impact Resistant Glass", sheets 1 through 6 of 6, dated 07/21/08, with revision #1 dated 03/09/12, prepared by manufacturer, signed and sealed by Francisco Hernandez, P.E., bearing the Miami-Dade County Product Control Renewal 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, city, state, 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 renews NOA # 12-0320.01 and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

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



Handwritten signature and date: MP / 6/28/13

NOA No. 13-0416.13
Expiration Date: August 19, 2018
Approval Date: July 04, 2013
Page 1

Sunshine Windows Manufacturing, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No **HR08-02**, titled "Series 1650 Aluminum Horizontal Sliding Window (XOX) Impact Resistant Glass" Sheets 1 through 6 of 6, dated 07/21/08, with revision #1 dated 03/09/12, prepared by manufacturer, signed and sealed by Frank Hernandez, P.E.
(Submitted under previous NOA#12-0320.01)

B. TESTS

1. Test reports on:
 - 1) Air Infiltration Test, per TAS 202-94
 - 2) Uniform Static Air Pressure Test, Loading per TAS 202-94
 - 3) Water Resistance Test, per TAS 202-94
 - 4) Large Missile Impact Test per FBC, TAS 201-94, (#6 aggregate gravel)
 - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
 - 6) Forced Entry Test, per FBC 2411.3.2.1 and TAS 202-94along with marked-up drawings and installation diagram of an aluminum horizontal sliding window with .34" laminated glass, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-5352**, dated 12/07/07, signed and sealed by Carlos Rionda, P.E.
(Submitted under NOA#07-0810.06)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2004, dated 07/15/08, prepared, signed and sealed by Francisco Hernandez, P.E.
(Submitted under NOA#08-0820.12)
2. Glazing complies with ASTM E1300-04

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **13-0129.27** issued to **E.I. DuPont DeNemours & Co., Inc.** for their "**DuPont Butacite® PVB Interlayer**" dated 04/11/13, expiring on 12/11/16.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 13-0416.13
Expiration Date: August 19, 2018
Approval Date: July 04, 2013

Sunshine Windows Manufacturing, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS

1. Statement letter of conformance, complying with FBC-2010, and of no financial interest, dated March 12, 2012, signed and sealed by Francisco Hernandez, P.E.
2. Statement letter of conformance, complying with FBC-2010, and of no financial interest, dated March 12, 2012, signed and sealed by Francisco Hernandez, P.E.
(Submitted under previous NOA#12-0320.01)

G. OTHER

1. Notice of Acceptance No. **12-0320.01**, issued to Sunshine Windows Manufacturing, Inc. for their Series "1650 (OXO)" Aluminum Horizontal Sliding Window – L.M.I., approved on 05/17/12 and expiring on 08/19/13.



Manuel Perez, P.E.
Product Control Examiner
NOA No. 13-0416.13

Expiration Date: August 19, 2018
Approval Date: July 04, 2013

DESIGN PRESSURE CHART - PSF

SERIES-1650

ALUMINUM HORIZONTAL SLIDING WINDOW (XOX)

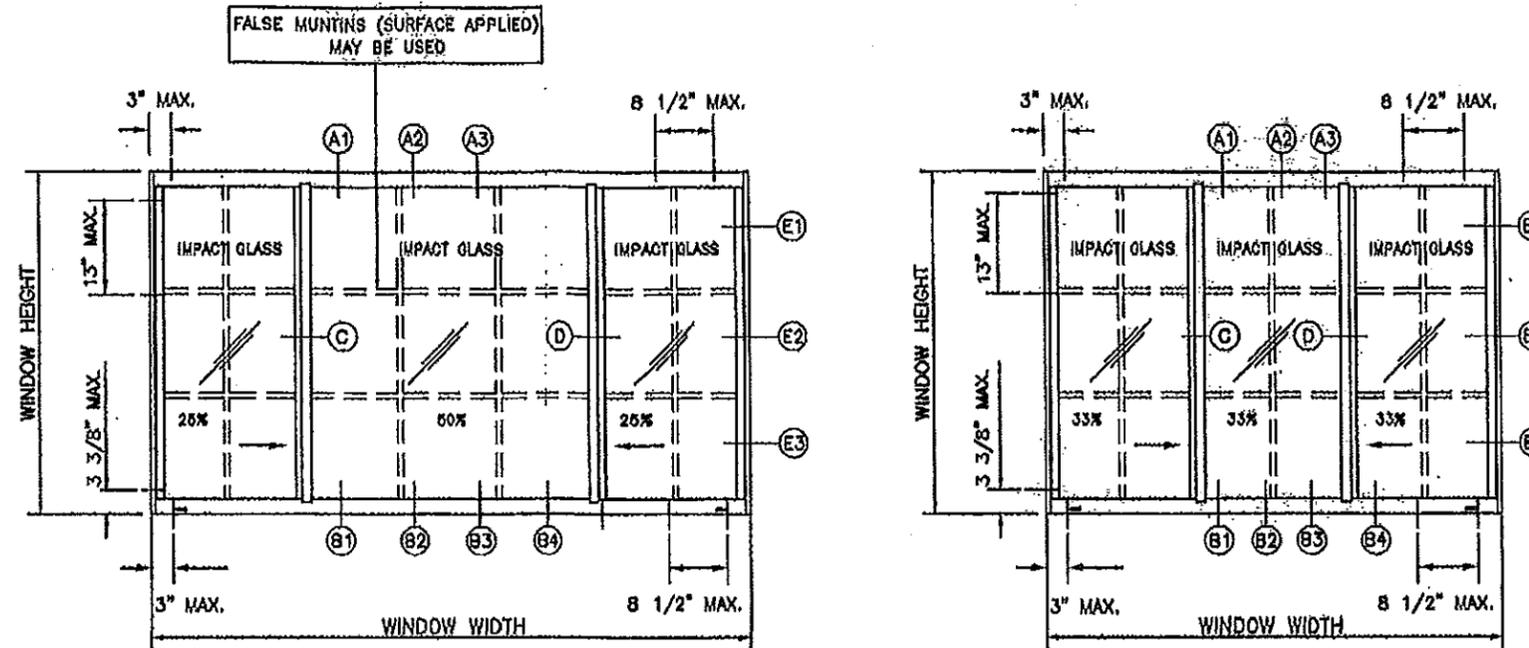
IMPACT RESISTANT GLASS

WINDOW DIMENSION ANCHOR SCHEDULE HURRICANE PROTECTION IS NOT REQUIRED

WIDTH HEIGHT PER HEAD & SILL PER JAMB EXTERIOR (+) INTERIOR (-)

STANDARD SIZES	WINDOW DIMENSION		ANCHOR SCHEDULE		HURRICANE PROTECTION IS NOT REQUIRED			
	WIDTH	HEIGHT	PER HEAD & SILL	PER JAMB	EXTERIOR (+)	INTERIOR (-)		
STANDARD SIZES	74"	28"	9	3	60.00	60.00		
	108 1/4"		13		60.00	80.00		
	111"		14		60.00	80.00		
	STANDARD SIZES	74"	38 3/8"	9	4	60.00	60.00	
		108 1/4"		13		60.00	60.00	
		111"		14		60.00	60.00	
	STANDARD SIZES	74"	50 5/8"	9	5	60.00	60.00	
		108 1/4"		13		60.00	60.00	
		111"		14		60.00	60.00	
		STANDARD SIZES	74"	83"	9	6	60.00	60.00
			108 1/4"		13		56.00	56.00
			111"		14		56.00	56.00
111"	14		56.00		56.00			
MODULAR SIZES	72"	24"	9	3	60.00	60.00		
	84"		11		60.00	60.00		
	96"		12		60.00	60.00		
	108"		13		60.00	60.00		
	MODULAR SIZES	72"	36"	9	4	60.00	60.00	
		84"		11		60.00	60.00	
		96"		12		60.00	60.00	
		108"		13		60.00	60.00	
	MODULAR SIZES	72"	48"	9	5	60.00	60.00	
		84"		11		60.00	60.00	
		96"		12		60.00	60.00	
		108"		13		60.00	60.00	
MODULAR SIZES	72"	60"	9	6	60.00	60.00		
	84"		11		60.00	60.00		
	96"		12		60.00	60.00		
	108"		13		56.40	56.40		

IMPACT RESISTANT WINDOWS



TYPICAL ELEVATION (XOX) 25/50/25

TYPICAL ELEVATION (XOX) 33/33/33

GENERAL NOTES:

- THIS PRODUCT MEETS THE REQUIREMENTS OF THE 2010 FBC.
- XOX CONFIGURATION APPLIES TO 25%-50%-25% PROPORTIONS FOR ALL DIMENSIONS ON CHART. XOX CONFIGURATION APPLIES TO 33%-33%-33% PROPORTIONS FOR WIDTH DIMENSIONS UP TO 84".
- SHUTTERS ARE NOT REQUIRED.
- FOR NUMBER OF ANCHORS FOR EACH UNIT SIZE REFER TO DESIGN PRESSURES CHART.
- FOR ATTACHMENT INTO CONCRETE OR MASONRY WITH 1 BY USE 1/4" DIAM. ULTAGON BY ELCO WITH 1 1/4" MIN. EMBEDMENT INTO CONCRETE/MASONRY AND 2 1/2" MIN. EDGE DISTANCE. FOR ATTACHMENT INTO 2 BY OR WOODEN STRUCTURE USE 1/4" DIAM. ULTAGON BY ELCO WITH 1 1/2" MIN. EMBEDMENT INTO WOOD AND 1" MIN. EDGE DISTANCE. FOR ATTACHMENT INTO METAL USE 1/4" DIAM. GRADE 5 SHEET METAL SCREWS WITH 1" MIN. EDGE DISTANCE.
- CONCRETE STRENGTH $f'_c=3,200$ psi MIN., CMU PER ASTM C90, FILLED CMU $f_m=2,000$ psi MIN.
- USE NON SHRINK NON METALLIC GROUT 3 KSI MIN. AS REQUIRED.
- WOOD HOST STRUCTURE SHALL BE "SOUTHERN YELLOW PINE" $G=0.55$ OR GREATER DENSITY.
- THE THICKNESS OF THE STEEL/ALUMINUM HOST STRUCTURE SHALL BE NO LESS THAN 1/8". ALUMINUM SHALL BE 6063-T6. STEEL SHALL BE $F_y=36$ KSI MIN.
- WOOD BUCKS (BY OTHERS) SHALL BE PROPERLY ATTACHED TO TRANSFER GLAZING SYSTEM LOADS TO THE STRUCTURE AND SHALL BE APPROVED BY BUILDING OFFICIAL PRIOR TO WINDOW INSTALLATION.
- ALUMINUM IN CONTACT WITH DISSIMILAR MATERIALS SHALL BE PROTECTED (BY OTHERS) AS SPECIFIED IN SECTION 2003.8.4 OF THE 2010 FBC.

GLASS:

0.340" OVERALL LAMINATED GLASS USING TWO LITES OF 0.125" HEAT STRENGTHENED GLASS WITH A 0.090" INTERLAYER FILM DUPONT BUTACITE PVB, BETWEEN THE TWO LITES OF GLASS. LAMINATED BY TECNOGLASS.

PRODUCT REVISED as complying with the Florida Building Code
Acceptance No. 12-0320.01
Expiration Date Aug. 19, 2013
By *Manuel Perez*
Miami Dade Product Control

PRODUCT RENEWED as complying with the Florida Building Code
Acceptance No. 13-0416.13
Expiration Date Aug. 19, 2018
By *Manuel Perez*
Miami Dade Product Control

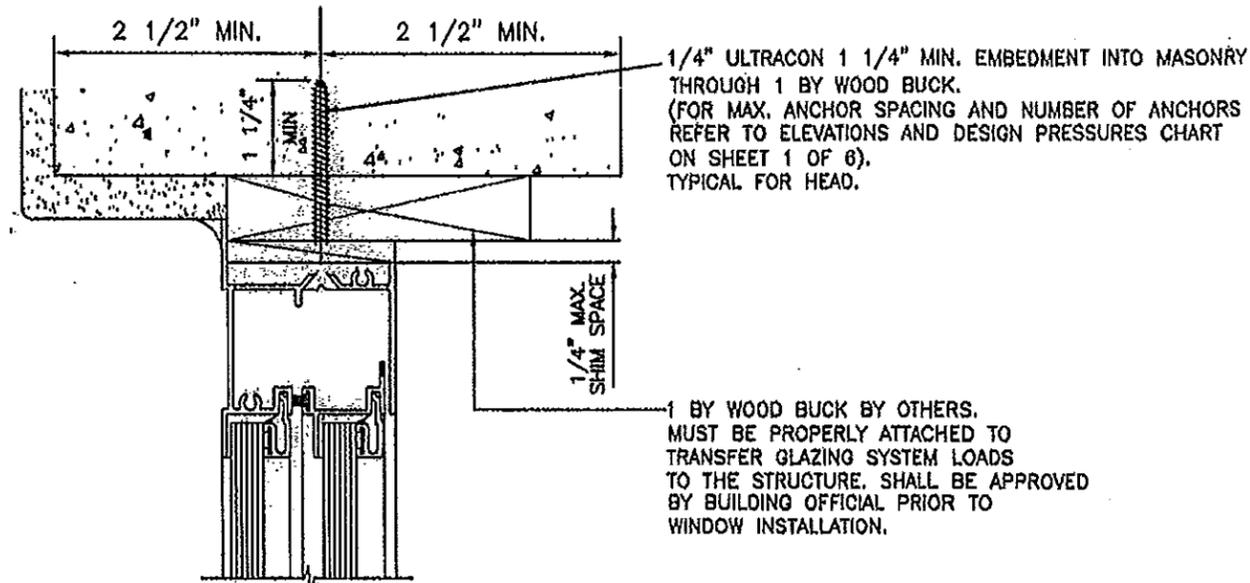
FHJ
3-12-12
FRANCISCO HERNANDEZ
FLORIDA PE # 51393

Sunshine Windows Manufacturing, Inc.
1745 W. 33rd Place
Hialeah, Florida 33012
Ph: (305)384-9852
Fax: (305)828-5118

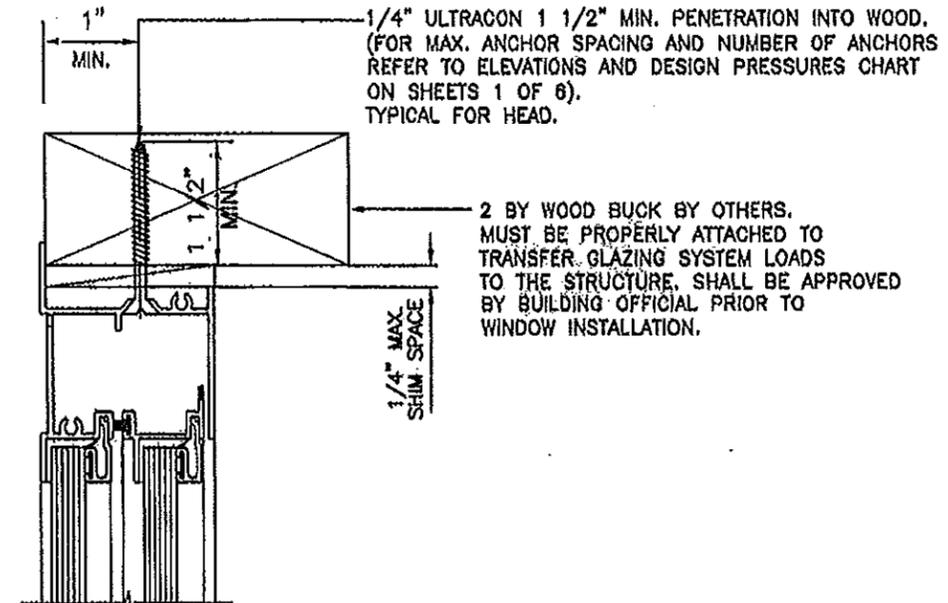
SERIES 1650 ALUMINUM HORIZONTAL SLIDING WINDOW (XOX) IMPACT RESISTANT GLASS

REVISION	DATE	DESCRIPTION
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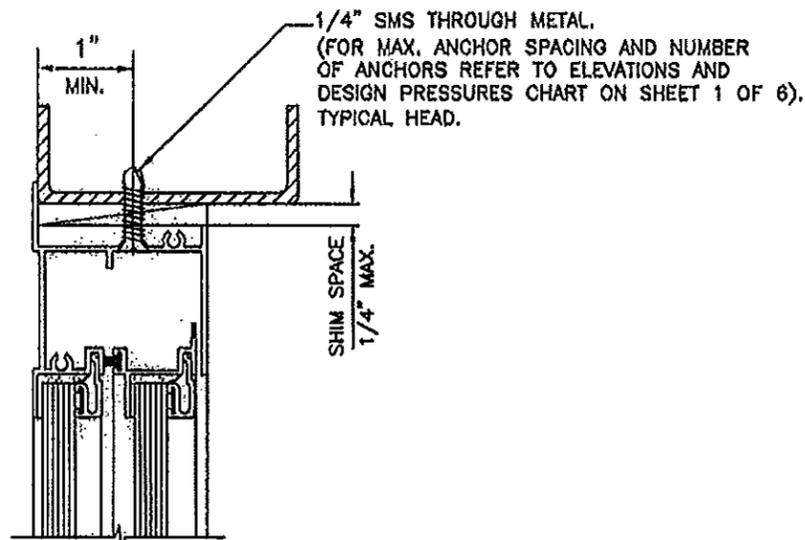
DRAWING No. HS08-02
DATE: 07-21-08
SCALE: 1/2"=1"
SHEET 1 OF 6



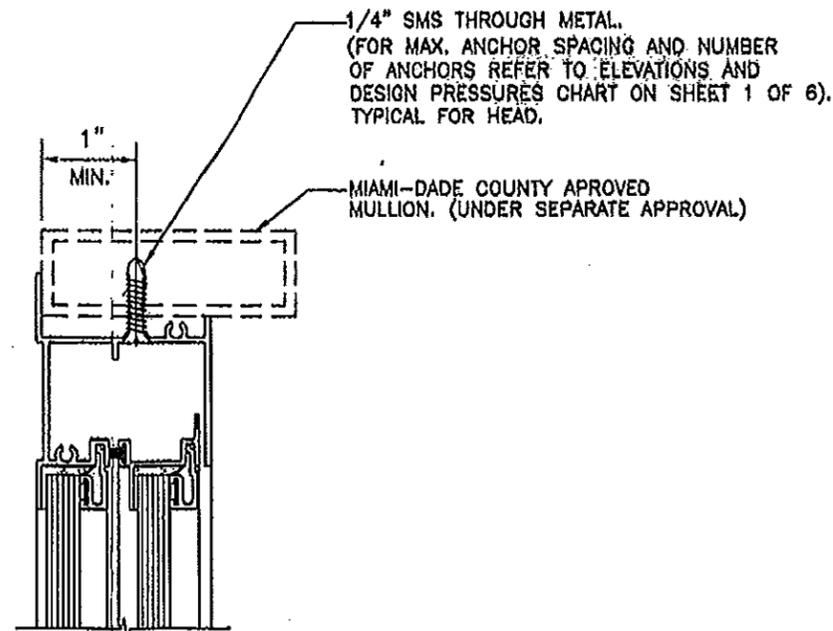
DETAIL A1
ATTACHMENT TO MASONRY



DETAIL A2
ATTACHMENT TO WOOD

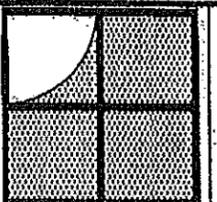


DETAIL A3
ATTACHMENT TO METAL STRUCTURE
(STEEL OR ALUM. 1/8" MIN. THICKNESS)



DETAIL A4
ATTACHMENT TO MULLION

TYPICAL HEAD SECTIONS



Sunshine Windows
Manufacturing, Inc.
1745 W. 33rd Place
Hialeah, Florida 33012
Ph: (305)384-9882
Fax: (305)828-5118

**SERIES 1650 ALUMINUM
HORIZONTAL SLIDING WINDOW (XOX)
IMPACT RESISTANT GLASS**

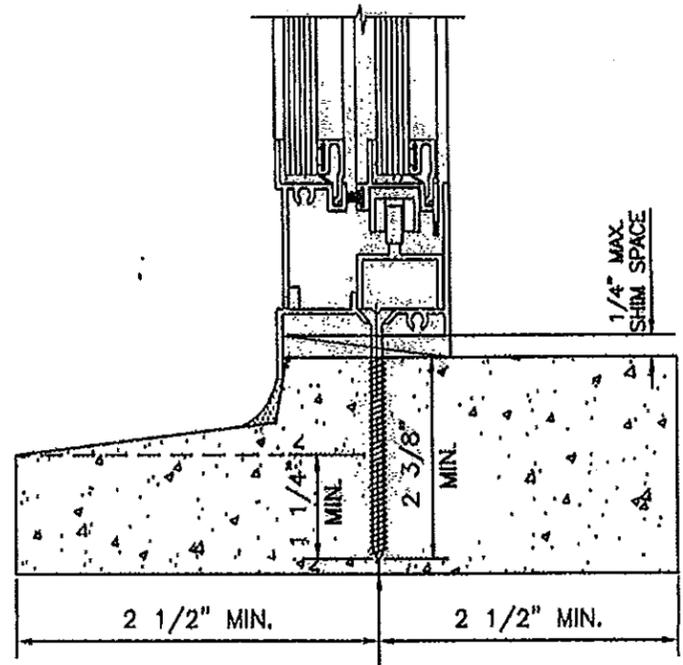
PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 13-046.13
Expiration Date Aug. 19, 2018
By *Maurice Perez*
Miami Dade Product Control

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 12-0320.01
Expiration Date Aug. 19, 2013
By *Maurice Perez*
Miami Dade Product Control

FHJ
3-12-12
FRANCISCO HERNANDEZ
FLORIDA, P.E. # 51393

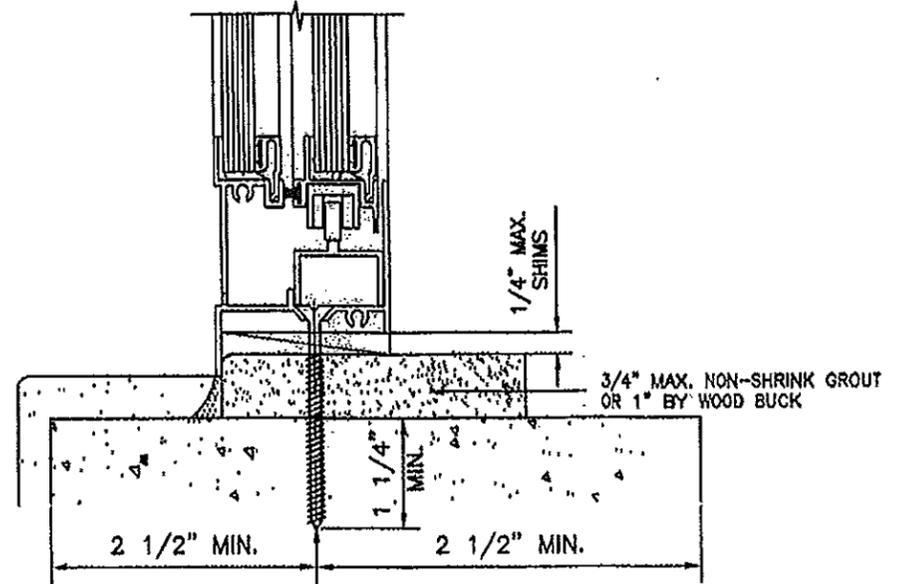
NO.	DATE	REVISION
1	03-09-12	UPDATED FOR 2010 FBC

DRAWING No.
HR08-02
DATE: 07-21-08
SCALE: 1/2"=1"
SHEET 2 OF 6



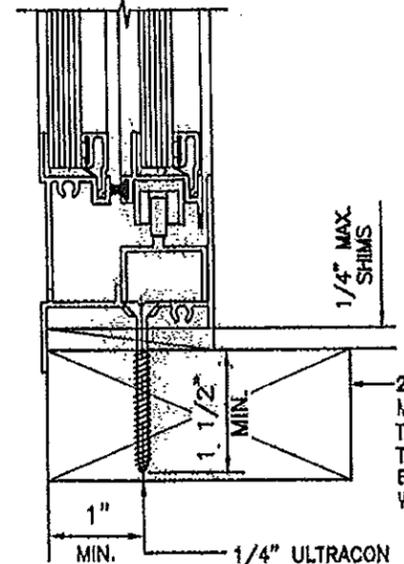
1/4" ULTRACON 1 1/4" MIN. EMBEDMENT INTO MASONRY (FOR MAX. ANCHOR SPACING AND NUMBER OF ANCHORS REFER TO ELEVATIONS AND DESIGN PRESSURES CHART ON SHEET 1 OF 6). TYPICAL FOR SILL ONLY.

DETAIL B1
ATTACHMENT TO PRE-CAST SILL



1/4" ULTRACON 1 1/4" MIN. EMBEDMENT INTO MASONRY THROUGH 1" BY WOOD BUCK OR NON-SHRINK NON-METALLIC GROUT (FOR MAX. ANCHOR SPACING AND NUMBER OF ANCHORS REFER TO ELEVATIONS AND DESIGN PRESSURES CHART ON SHEET 1 OF 6). TYPICAL FOR SILL ONLY.

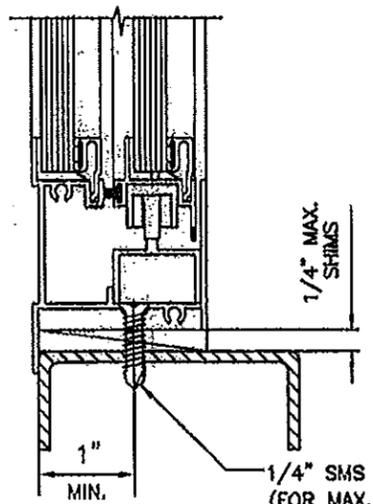
DETAIL B4
ATTACHMENT TO MASONRY



2 BY WOOD BUCK BY OTHERS. MUST BE PROPERLY ATTACHED TO TRANSFER GLAZING SYSTEM LOADS TO THE STRUCTURE. SHALL BE APPROVED BY BUILDING OFFICIAL PRIOR TO WINDOW INSTALLATION.

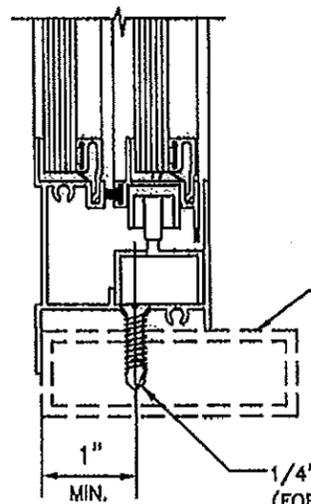
1/4" ULTRACON 1 1/2" MIN. PENETRATION INTO WOOD. (FOR MAX. ANCHOR SPACING AND NUMBER OF ANCHORS REFER TO ELEVATIONS AND DESIGN PRESSURES CHART ON SHEET 1 OF 6). TYPICAL FOR SILL.

DETAIL B2
ATTACHMENT TO WOOD



1/4" SMS THROUGH METAL. (FOR MAX. ANCHOR SPACING AND NUMBER OF ANCHORS REFER TO ELEVATIONS AND DESIGN PRESSURES CHART ON SHEET 1 OF 6). TYPICAL FOR SILL.

DETAIL B3
ATTACHMENT TO METAL STRUCTURE
(STEEL OR ALUM. 1/8" MIN. THICKNESS)



MIAMI-DADE COUNTY APPROVED MULLION. (UNDER SEPARATE APPROVAL)

1/4" SMS THROUGH METAL. (FOR MAX. ANCHOR SPACING AND NUMBER OF ANCHORS REFER TO ELEVATIONS AND DESIGN PRESSURES CHART ON SHEET 1 OF 6). TYPICAL FOR SILL.

DETAIL B5
ATTACHMENT TO MULLION
(STEEL OR ALUM. 1/8" MIN. THICKNESS)

TYPICAL SILL SECTIONS

Sunshine Windows Manufacturing, Inc.
1745 W. 33rd Place
Hialeah, Florida 33012
Ph: (305)364-8862
Fax: (305)828-5118

SERIES 1650 ALUMINUM
HORIZONTAL SLIDING WINDOW (XOX)
IMPACT RESISTANT GLASS

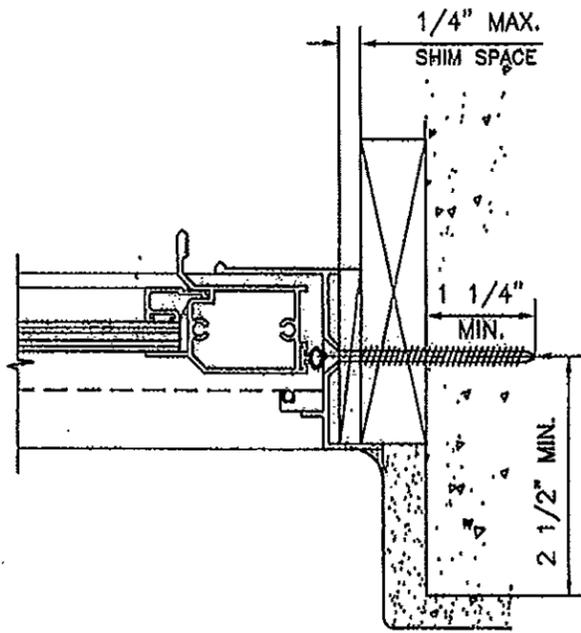
No.	DATE	REVISION
1	03-09-12	UPDATED FOR 2010 FBC

PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No. 13-0416-13
Expiration Date 06.19.2018
By *Manuel Perez*
Miami Dade Product Control

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 12-0320-01
Expiration Date 06.19.2013
By *Manuel Perez*
Miami Dade Product Control

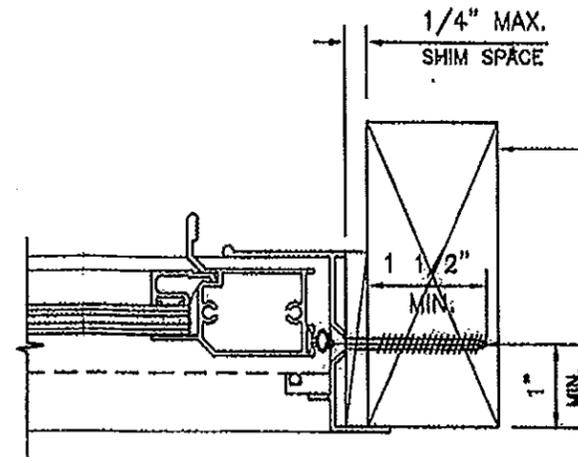
FHJ
3-12-12
FRANCISCO HERNANDEZ
FLORIDA PE # 51393

DRAWING No.
HR08-02
DATE: 07-21-08
SCALE: 1/2"=1"
SHEET 3 OF 6



DETAIL E1
ATTACHMENT TO MASONRY

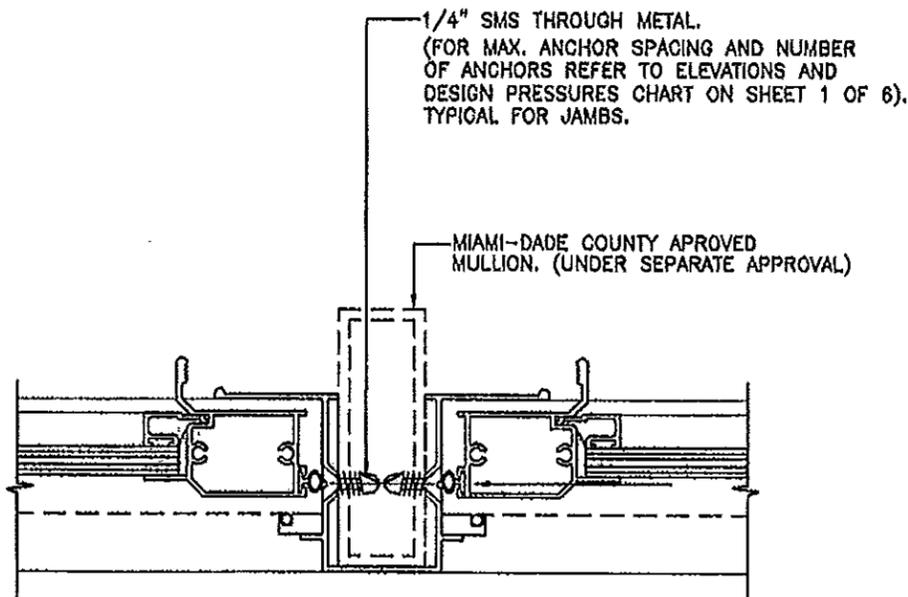
1/4" TAPCONS 1 1/4" MIN. EMBEDMENT INTO MASONRY THROUGH 1" BY WOOD BUCK OR NON SHRINK NON METALLIC GROUT (FOR MAX. ANCHOR SPACING AND NUMBER OF ANCHORS REFER TO ELEVATIONS AND DESIGN PRESSURES CHART ON SHEET 1 OF 6). TYPICAL FOR JAMBS.



DETAIL E2
ATTACHMENT TO WOOD

2 BY WOOD BUCK BY OTHERS. MUST BE PROPERLY ATTACHED TO TRANSFER GLAZING SYSTEM LOADS TO THE STRUCTURE. SHALL BE APPROVED BY BUILDING OFFICIAL PRIOR TO WINDOW INSTALLATION.

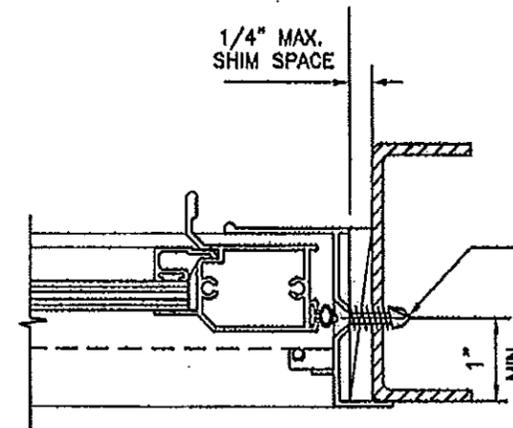
1/4" ULTRACON 1 1/2" MIN. PENETRATION INTO WOOD. (FOR MAX. ANCHOR SPACING AND NUMBER OF ANCHORS REFER TO ELEVATIONS AND DESIGN PRESSURES CHART ON SHEET 1 OF 6). TYPICAL FOR JAMBS.



DETAIL E4
ATTACHMENT TO MULLIONS DETAIL

1/4" SMS THROUGH METAL. (FOR MAX. ANCHOR SPACING AND NUMBER OF ANCHORS REFER TO ELEVATIONS AND DESIGN PRESSURES CHART ON SHEET 1 OF 6). TYPICAL FOR JAMBS.

MIAMI-DADE COUNTY APPROVED MULLION. (UNDER SEPARATE APPROVAL)



DETAIL E3
ATTACHMENT TO METAL STRUCTURE
(STEEL OR ALUM. 1/8" MIN. THICKNESS)

1/4" SMS THROUGH METAL. (FOR MAX. ANCHOR SPACING AND NUMBER OF ANCHORS REFER TO ELEVATIONS AND DESIGN PRESSURES CHARTS ON SHEET 1 OF 6). TYPICAL FOR JAMBS.

PRODUCT RENEWED as complying with the Florida Building Code
Acceptance No. 13-0416.13
Expiration Date AUG. 19, 2018
By *Manuel Hernandez*
Miami Dade Product Control

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FRANCISCO HERNANDEZ
FLORIDA PE # 51393

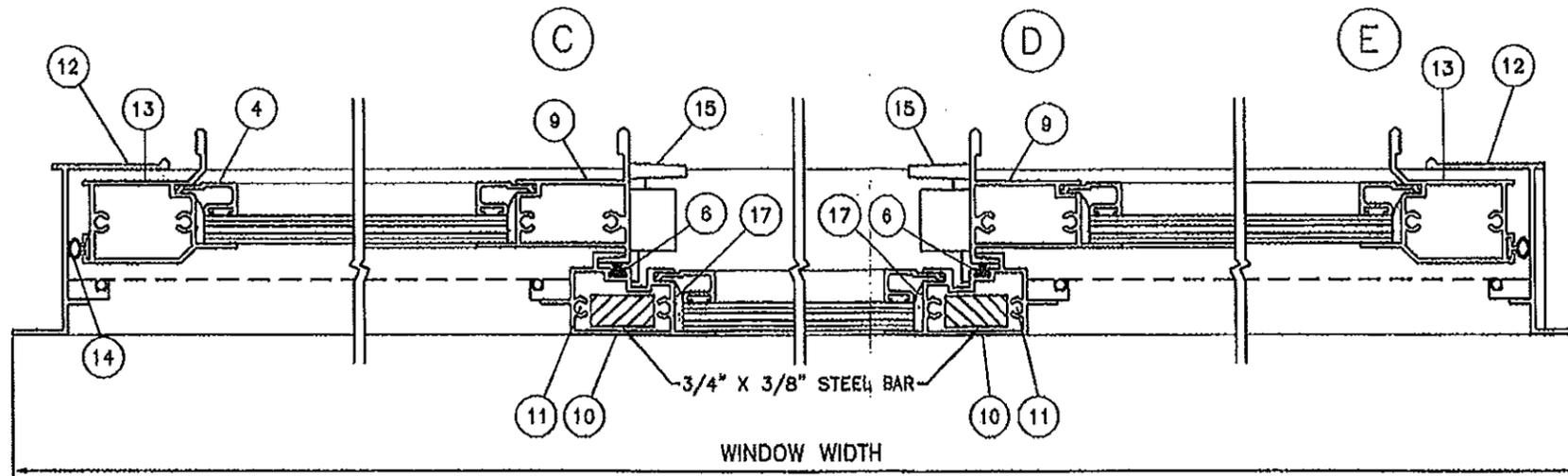
TYPICAL JAMB SECTIONS

Sunshine Windows Manufacturing, Inc.
1745 W. 33rd Place
Hialeah, Florida 33012
Ph: (305)354-9952
Fax: (305)828-5118

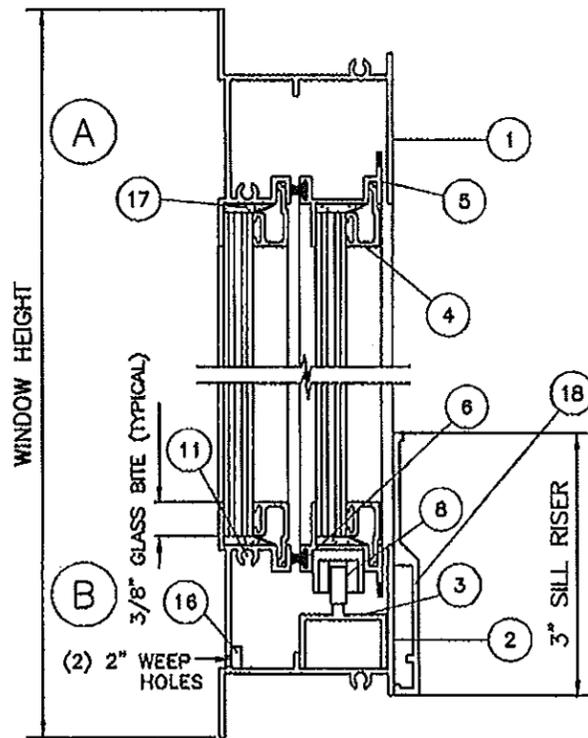
SERIES 1650 ALUMINUM
HORIZONTAL SLIDING WINDOW (XOX)
IMPACT RESISTANT GLASS

NO	DATE	REVISION
1	03-09-12	UPDATED FOR 2010 FBC

DRAWING No.
HR08-02
DATE: 07-21-08
SCALE: 1/2"=1"
SHEET 4 OF 6



HORIZONTAL SECTION (XOX)



VERTICAL SECTION WITH SILL RISER

Sunshine Windows Manufacturing, Inc.
 1745 W. 33rd Place
 Hialeah, Florida 33012
 Ph: (305)384-9882
 Fax: (305)828-8118

SERIES 1650 ALUMINUM
 HORIZONTAL SLIDING WINDOW (XOX)
 IMPACT RESISTANT GLASS

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 FLORIDA PE # 51393

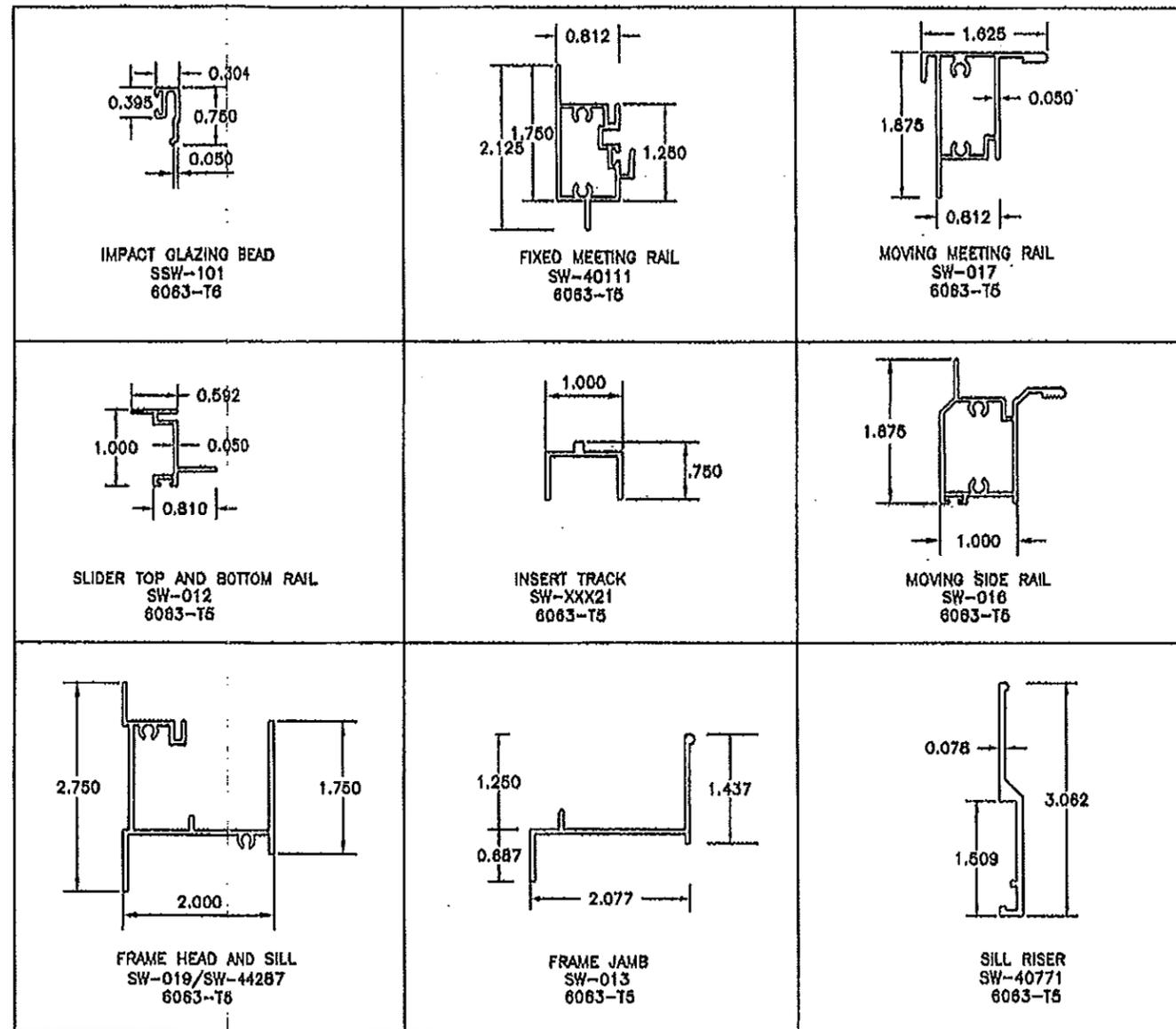
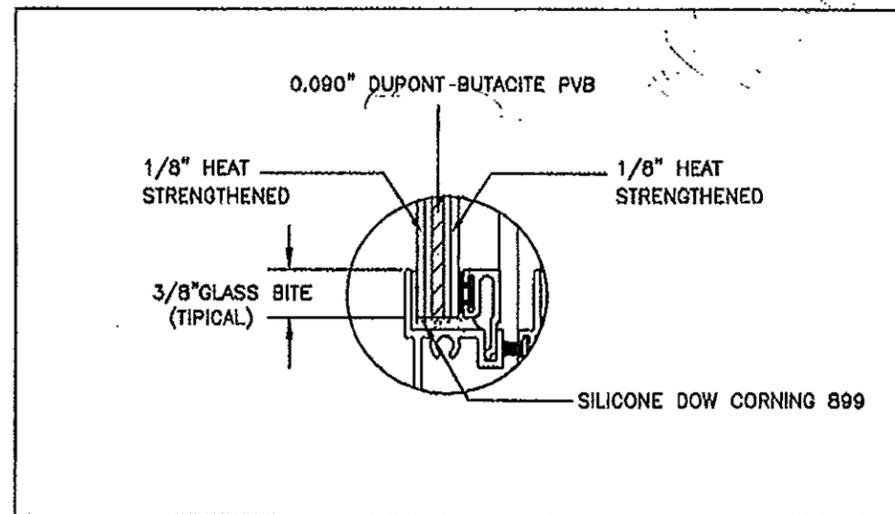
No	DATE	REVISION
1	03-09-12	NO CHANGE THIS SHEET

DRAWING No.
 HR08-02
 DATE: 07-21-08
 SCALE: 1/2"=1"
 SHEET 6 OF 8

MATERIAL LIST

ITEM#	PART#	REQD.	DESCRIPTION	MATERIAL
1	SW-019	1	FRAME HEAD	6063-T5
2	SW-019	1	FRAME SILL	6063-T5
3	SWxxx21	1	INSERT TRACK	6063-T5
4	SSW-101	AS RQD	IMPACT GLAZING BEAD	6063-T6
5	SW-012	2/VENT	SLIDER TOP/BOTTOM RAIL	6063-T5
6	SW3019	AS RQD	FIN SEAL PILE	FELT
7	SW1520	AS RQD	GLAZING TAPE	FOAM
8	SW321W	2/VENT	WHEEL	BRASS
9	SW-017	1/VENT	MOVING MEETING RAIL	6063-T5
10	SW4011	2	FIXED MEETING RAIL	6063-T5
11	SW-AS	AS RQD	ASSEMBLY SCREWS	# 8X1" PH PHILLIP CRS
12	SW-013	2	JAMB	6063-T5
13	SW-016	1/VENT	MOVING SIDE RAIL	6063-T5
14	SW3257	AS RQD	WEATHER STRIP BULB	VINYL
15	SW-667	AS RQD	LATCH	ZINC
16	SW-S10	2/SILL	RETICULATED FILTER	FOAM
17	--	AS RQD	SILICONE	DOW CORNING 899
18	SW4077	1	SILL RISER	6063-T5

GLAZING DETAIL



Sunshine Windows Manufacturing, Inc.
 1745 W. 33rd Place
 Hialeah, Florida 33012
 Ph: (305)364-9962
 Fax: (305)828-5118

SERIES 1650 ALUMINUM
 HORIZONTAL SLIDING WINDOW (XOX)
 IMPACT RESISTANT GLASS

No	DATE	REVISION	NO CHANGE THIS SHEET
1	03-09-12		

DRAWING No.
 HR08-02
 DATE: 07-21-08
 SCALE: 1/2"=1"
 SHEET 6 OF 6

PRODUCT RENEWED
 as complying with the Florida
 Building Code
 Acceptance No. 13-0416.13
 Expiration Date Aug 14, 2018
 By Manuel Lopez
 Miami Dade Product Control

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 12-0320.01
 Expiration Date Aug 19, 2013
 By Manuel Lopez
 Miami Dade Product Control

[Signature]
 3-12-12
 FRANCISCO HERNANDEZ
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