



BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

NOTICE OF ACCEPTANCE (NOA)

www.buildingcodeonline.com

Sunshine Windows Manufacturing, Inc.
1745 West 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 by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) 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 Division (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. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division 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 Windows", sheets 1 through 6 of 6, dated 7/21/08, prepared by manufacturer, signed and sealed by Francisco Hernandez, 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 Division.

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 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 and renews** NOA # **07-0810.06** 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 **Fitz A. Harris, P.E.**

Fitz A. Harris



NOA No. 08-0820.12
Expiration Date: August 19, 2013
Approval Date: September 25, 2008
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 Windows" Sheets 1 through 6 of 6, dated 7/21/08 , prepared by manufacturer, signed and sealed by Frank Hernandez, P.E.

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 202-94
along 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 December 7, 2007, signed and sealed by Carlos Rionda, P.E.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2004, dated July 15, 2008, prepared, signed and sealed by Francisco Hernandez, P.E.
Complies with ASTM E1300-98

D. QUALITY ASSURANCE

1. Miami Dade Building Code Compliance Office (BCCO).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **07-1116.04** issued to E.I. DuPont DeNemours & Co., Inc. for their "**DuPont Sentry Glas ® Plus**" dated 01/03/08, expiring on 01/14/12.
2. Notice of Acceptance No. **08-0709.04** issued to Glasslam NGI Inc. for their "**Safety-Plus II - Laminated Glass**" dated 09/11/08, expiring on 09/05/2011.



Fitz A. Harris

Fitz A. Harris, P.E.

Product Control Examiner

NOA No. 08-0820.12

Expiration Date: August 19, 2013

Approval Date: September 25, 2008

Sunshine Windows Manufacturing, Inc.

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F. STATEMENTS

1. Statement letter of conformance, dated July 15, 2008, signed and sealed by Francisco Hernandez, P.E.
2. Letter of "No Financial Interest in Testing Laboratory", dated 7/15/08 signed and sealed by Francisco Hernandez, P.E.

G. OTHER

1. Notice of Acceptance No. **07-0810.06**, issued to Sunshine Windows Manufacturing, Inc. for their Series "1650" Aluminum Horizontal Sliding Window (XOX) Large and Small Missile Impact, approved on 09/20/07 and expiring on 08/19/08.



Fitz A. Harris

Fitz A Harris, P.E.
Product Control Examiner
NOA No. 08-0820.12

Expiration Date: August 19, 2013
Approval Date: September 25, 2008

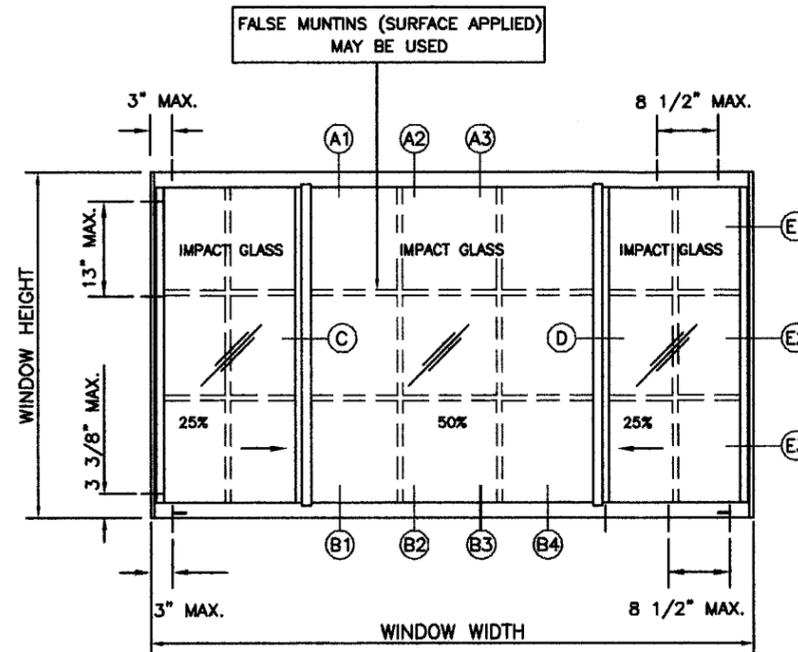
DESIGN PRESSURE CHART - PSF

SERIES-1650
ALUMINUM HORIZONTAL SLIDING WINDOW (XOX)

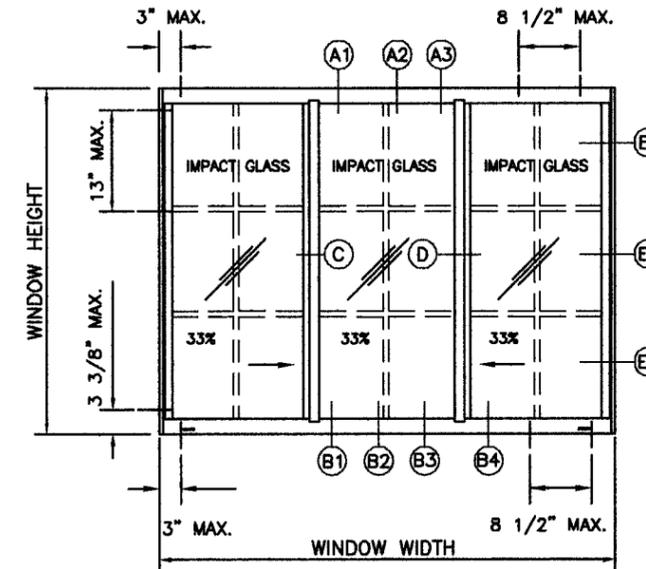
IMPACT RESISTANT GLASS

	WINDOW DIMENSION		ANCHOR SCHEDULE		HURRICANE PROTECTION IS NOT REQUIRED	
	WIDTH	HEIGHT	PER HEAD & SILL	PER JAMB	EXTERIOR (+)	INTERIOR (-)
STANDARD SIZES	74"	26"	9	3	60.00	60.00
	106 1/4"		13		60.00	60.00
	111"		14		60.00	60.00
	74"	38 3/8"	9	4	60.00	60.00
	106 1/4"		13		60.00	60.00
	111"		14		60.00	60.00
	74"	50 5/8"	9	5	60.00	60.00
	106 1/4"		13		60.00	60.00
	111"		14		60.00	60.00
74"	63"	9	6	60.00	60.00	
106 1/4"		13		56.00	56.00	
111"		14		56.80	56.80	
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
	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
	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
	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

TYPICAL ANCHORS:

- INTO 2 BY WOOD BUCKS OR WOOD STRUCTURE 1/4" SMS WITH 1 1/2" MIN. PENETRATION INTO WOOD.
- INTO 1BY WOOD BUCKS, NON-SHRINK GROUT OR INTO MASONRY 1/4" TAPCONS WITH 1 1/4" MIN. EMBEDMENT INTO MASONRY.
- INTO METAL STRUCTURE 1/4" SMS THROUGH METAL.

GENERAL NOTES:

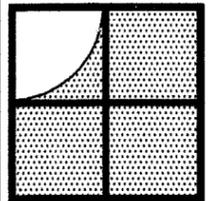
- FOR NUMBER OF ANCHORS REQUIRED FOR EACH UNIT SIZE REFER TO ANCHOR SCHEDULE COLUMN IN THE DESIGN PRESSURE CHART.
- APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE COMBINATIONS OF H.R./H.R. OR H.R. WITH OTHER WINDOW TYPES IN MODULES OF TWO OR MORE WINDOWS USING APPROVED MULLIONS.
- XOX CONFIGURATION 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"
- REFERENCES: TEST REPORTS FTL-5352.

THIS PRODUCT MEETS THE REQUIREMENTS OF THE 2004 FLORIDA BUILDING CODE

GLAZING

MATERIAL :
0.34" LAMINATED GLASS USING TWO LIGHTS OF 1/8" HEAT STRENGTHENED GLASS WITH AN 0.090" PVB INTERLAYER BY DUPONT

METHOD:
INTERIOR GLAZED WITH 3/8" GLAZING PENETRATION USING A CLEAR COLORED SILICONE DOW CORNING 899 AND AN EXTRUDED ALUMINUM SNAP ON GLAZING BEAD WITH A VINYL BULB BETWEEN THE BEAD AND GLASS.



Sunshine Windows Manufacturing, Inc.
1745 W. 33rd Place
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Ph: (305)364-9952
Fax: (305)828-5118

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

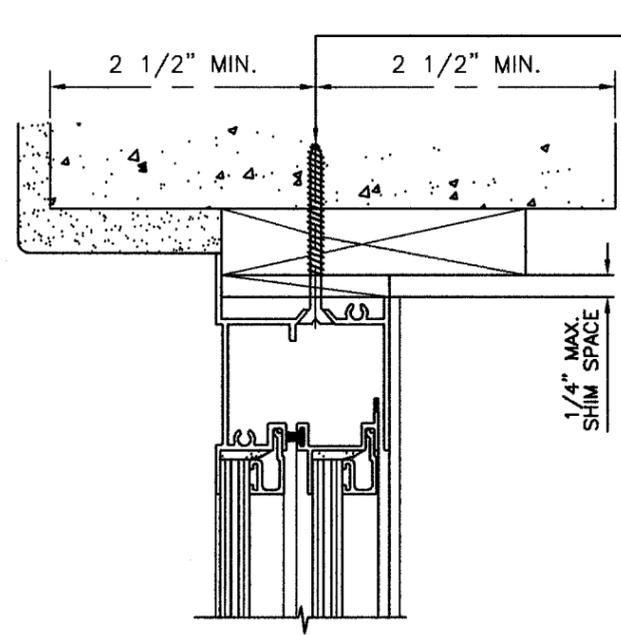
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Scale: 1/2"=1'
Revision:
Revision:

DRAWING NO. HR08-02

SHEET 1 OF 6

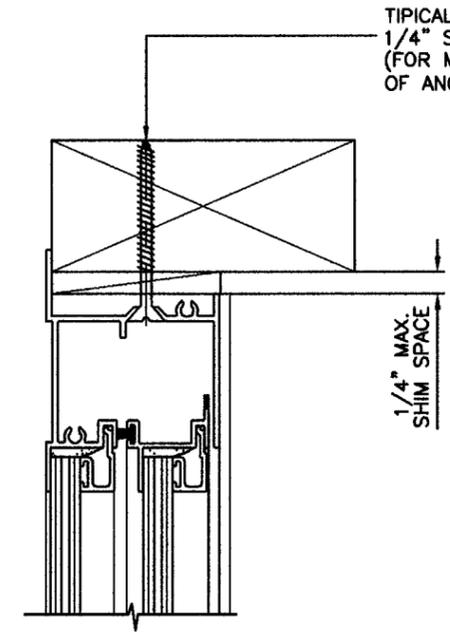
PRODUCT REVISED
to comply with the Florida Building Code
Acceptance No 08-0820-12
Expiration Date 8-19-13
By: Francisco Hernandez
Miami-Dade Product Control Division

7-24-08
FRANCISCO HERNANDEZ
FLORIDA PE # 51393



DETAIL A1
ATTACHMENT TO MASONRY

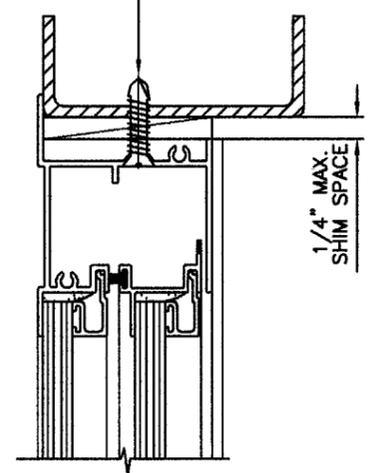
TYPICAL ANCHORS
1/4" TAPCONS 1 1/4" MIN. EMBEDMENT
INTO MASONRY THROUGH 1" BY WOOD BUCK
(FOR MAX. ANCHOR SPACING AND NUMBER
OF ANCHORS REFER TO SHEET 1 OF 6)



DETAIL A2
ATTACHMENT TO WOOD

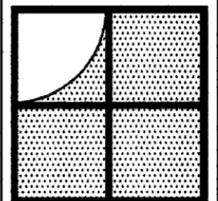
TYPICAL ANCHORS
1/4" SMS 1 1/2" MIN. PENETRATION INTO WOOD.
(FOR MAX. ANCHOR SPACING AND NUMBER
OF ANCHORS REFER TO SHEET 1 OF 6)

TYPICAL ANCHORS
1/4" SMS THROUGH METAL.
(FOR MAX. ANCHOR SPACING AND NUMBER
OF ANCHORS REFER TO SHEET 1 OF 6)



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

TYPICAL HEAD SECTIONS
IMPACT RESISTANT WINDOWS



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HORIZONTAL SLIDING WINDOW (XOX)
IMPACT RESISTANT GLASS

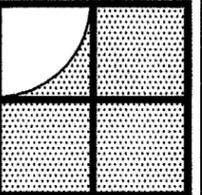
Drawn By: RF
Date: 07-21-08
Scale: 1/2"=1'
Revision: _____
Revision: _____

DRAWING NO.
HR08-02

SHEET
2 OF 6

PRODUCT REVIEWED
as complying with the Florida
Building Code
Acceptance No. 08-0820-12
Expiration Date 8-19-13
By: *Stacy Harris*
Miami Dade Product Control
Division

FH
7-24-08
FRANCISCO HERNANDEZ
FLORIDA PE # 51393



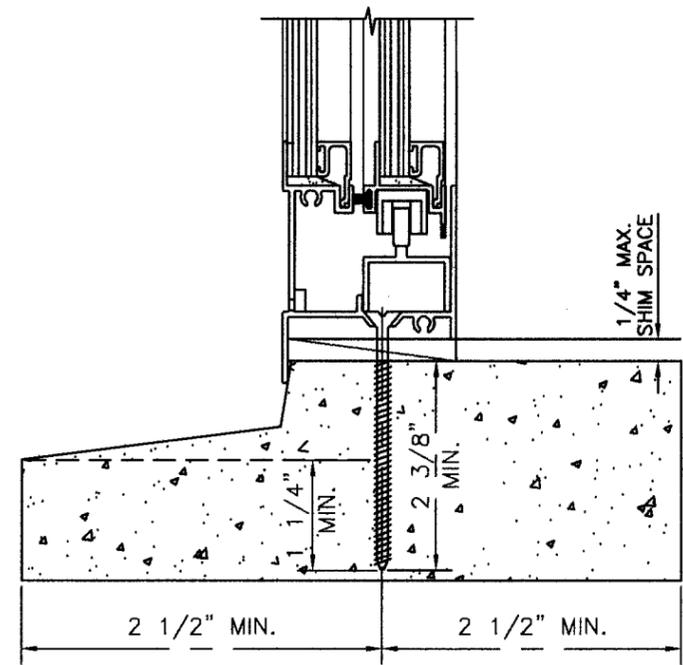
Sunshine Windows
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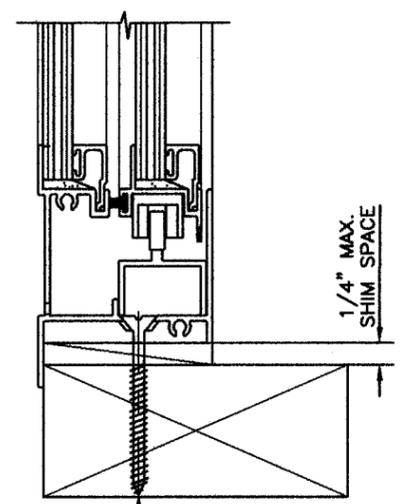
SHEET
3 OF 6



TYPICAL ANCHORS
1/4" TAPCONS 1 1/4" MIN. EMBEDMENT
INTO MASONRY
(FOR MAX. ANCHOR SPACING AND NUMBER
OF ANCHORS REFER TO SHEET 1 OF 6)

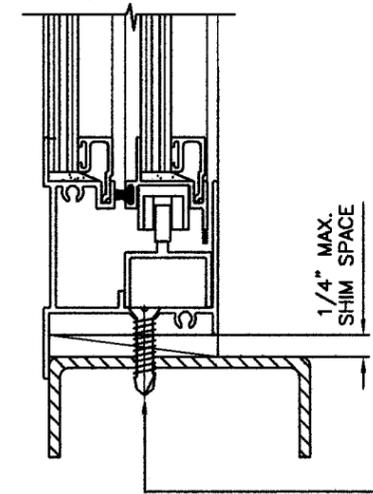
DETAIL B1
ATTACHMENT TO PRE-CAST SILL

TYPICAL SILL SECTIONS
IMPACT RESISTANT WINDOWS



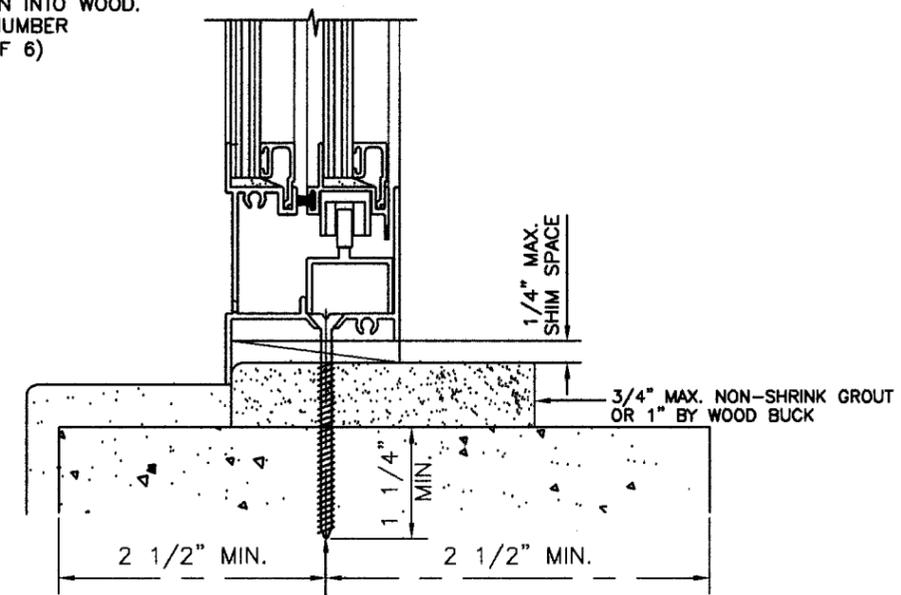
TYPICAL ANCHORS
1/4" SMS 1 1/2" MIN. PENETRATION INTO WOOD.
(FOR MAX. ANCHOR SPACING AND NUMBER
OF ANCHORS REFER TO SHEET 1 OF 6)

DETAIL B2
ATTACHMENT TO WOOD



TYPICAL ANCHORS
1/4" SMS THROUGH METAL.
(FOR MAX. ANCHOR SPACING AND NUMBER
OF ANCHORS REFER TO SHEET 1 OF 6)

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

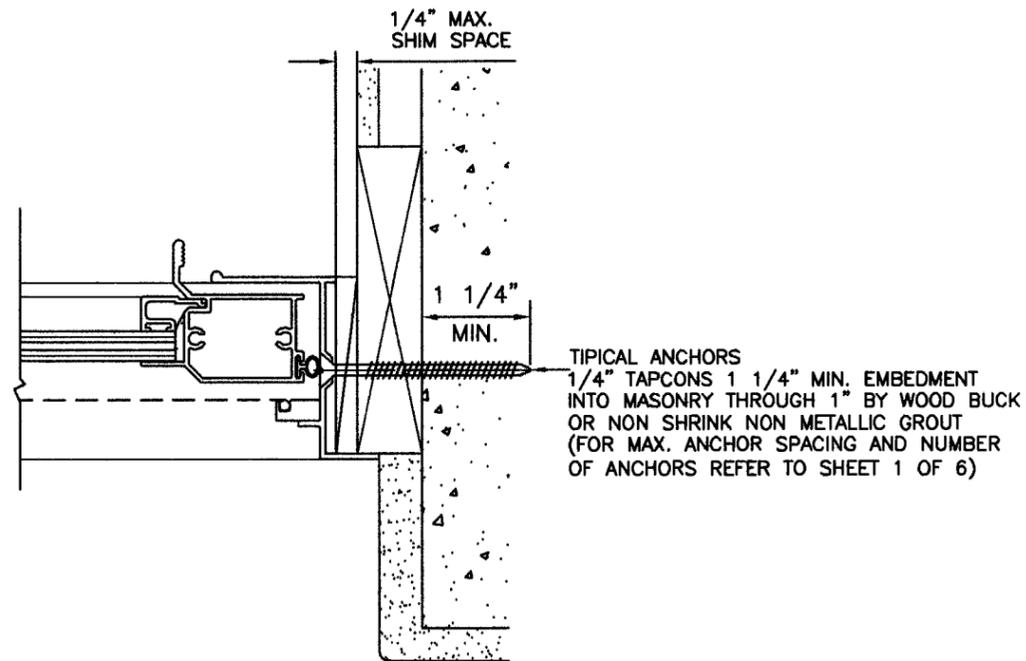


TYPICAL ANCHORS
1/4" TAPCONS 1 1/4" MIN. EMBEDMENT
INTO MASONRY THROUGH 1" BY WOOD BUCK
OR NON SHRINK NON METALLIC GROUT
(FOR MAX. ANCHOR SPACING AND NUMBER
OF ANCHORS REFER TO SHEET 1 OF 6)

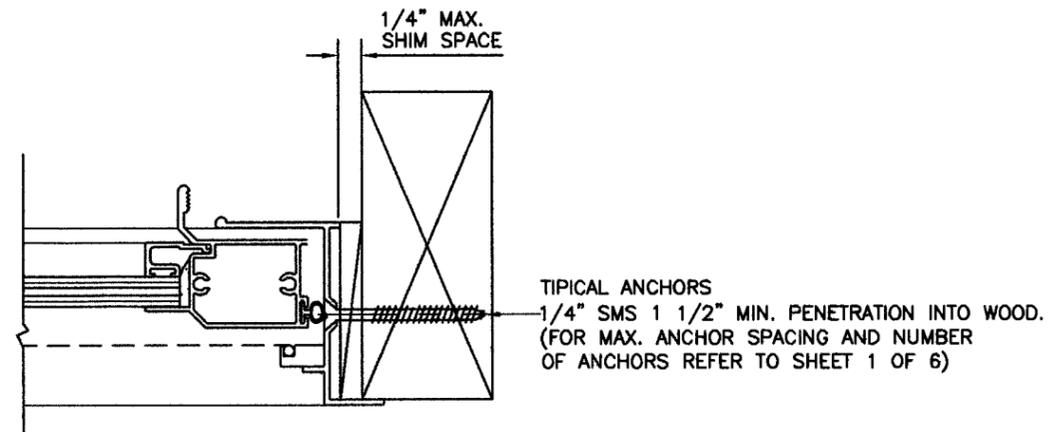
DETAIL B4
ATTACHMENT TO MASONRY

PRODUCT REVISED
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Expiration Date 8-19-13
By *Francisco Hernandez*
Miami Dade Product Control
Division

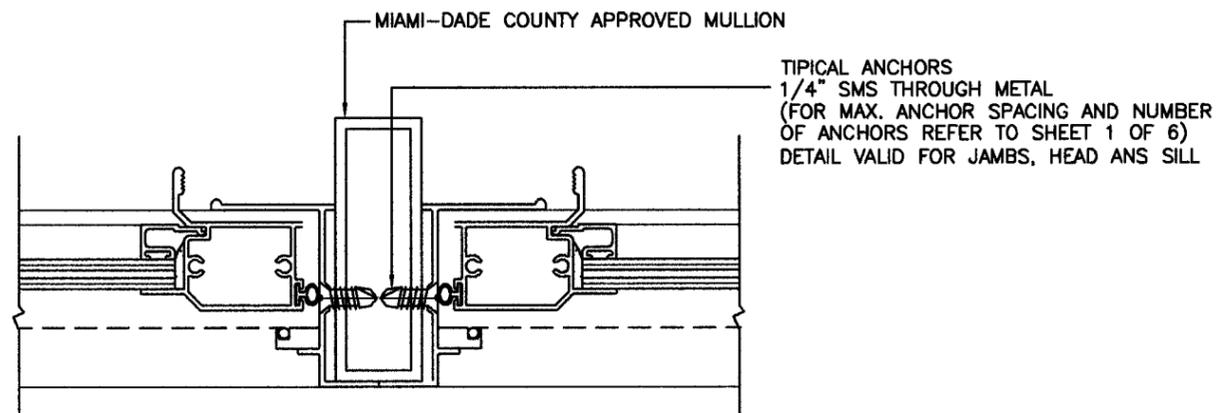
7-24-08
FRANCISCO HERNANDEZ
FLORIDA PE # 51393



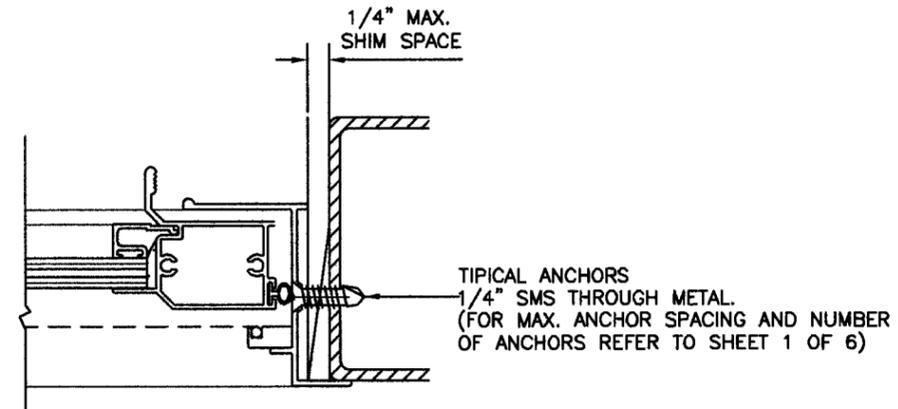
DETAIL E1
ATTACHMENT TO MASONRY



DETAIL E2
ATTACHMENT TO WOOD

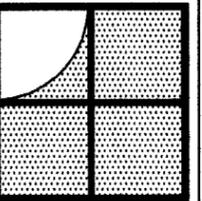


ATTACHMENT TO MULLIONS DETAIL



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

TYPICAL JAMB SECTIONS
IMPACT RESISTANT WINDOWS



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

Drawn By: RF
Date: 07-21-08
Scale: 1/2"=1'
Revision: _____
Revision: _____

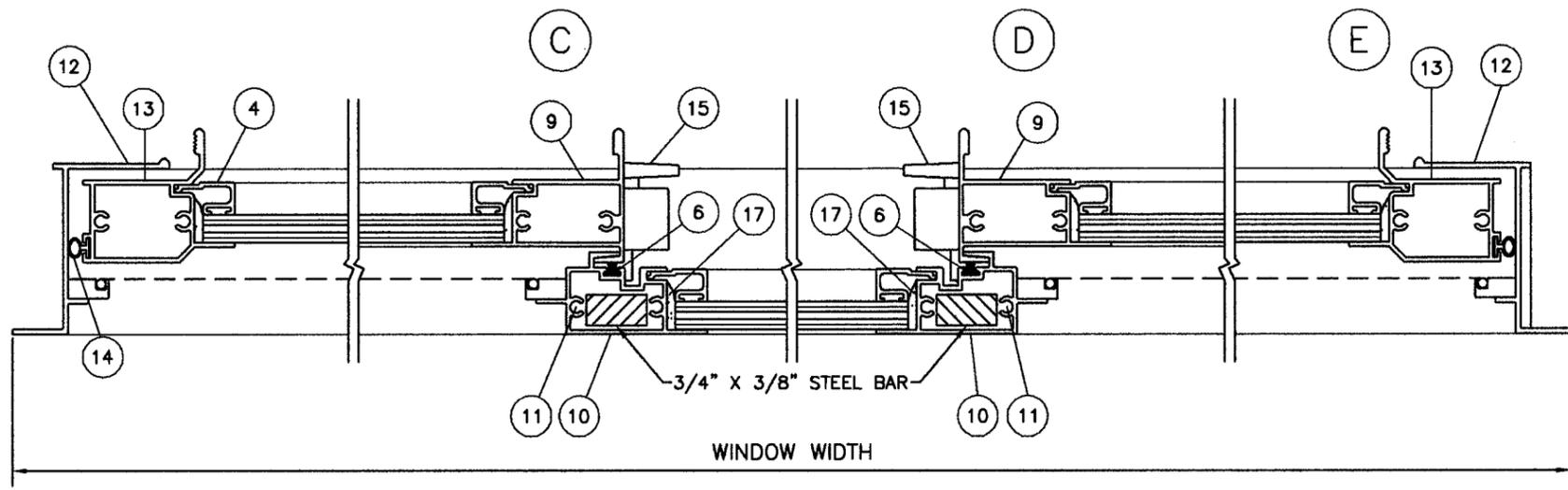
DRAWING NO.
HR08-02

SHEET
4 OF 6

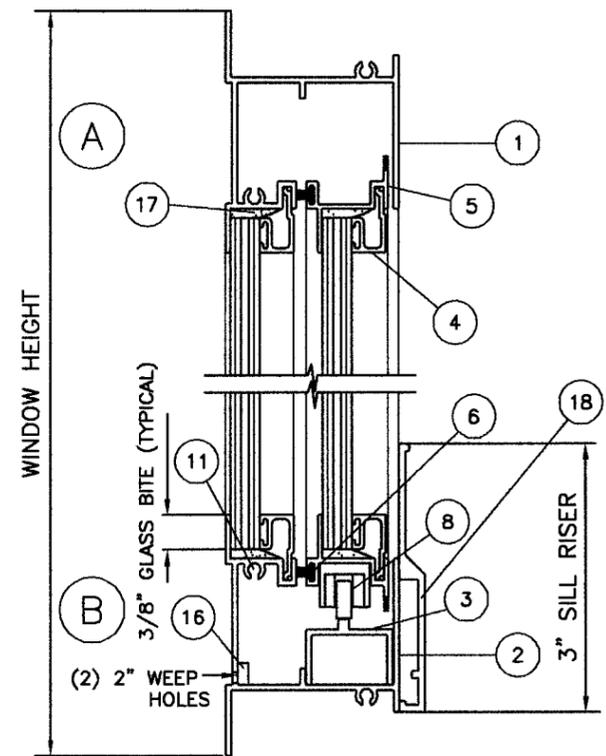
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By: *Francisco Hernandez*
Miami Dade Product Control
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Francisco Hernandez
7-24-08
FRANCISCO HERNANDEZ
FLORIDA PE # 51393

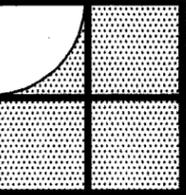


HORIZONTAL SECTION (XOX)



VERTICAL SECTION WITH SILL RISER

IMPACT RESISTANT WINDOWS


 Sunshine Windows
 Manufacturing, Inc.
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 Fax: (305)828-5118

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 IMPACT RESISTANT GLASS

Drawn By: RF
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 Revision:
 Revision:

DRAWING NO.
 HR08-02

SHEET
 5 OF 6

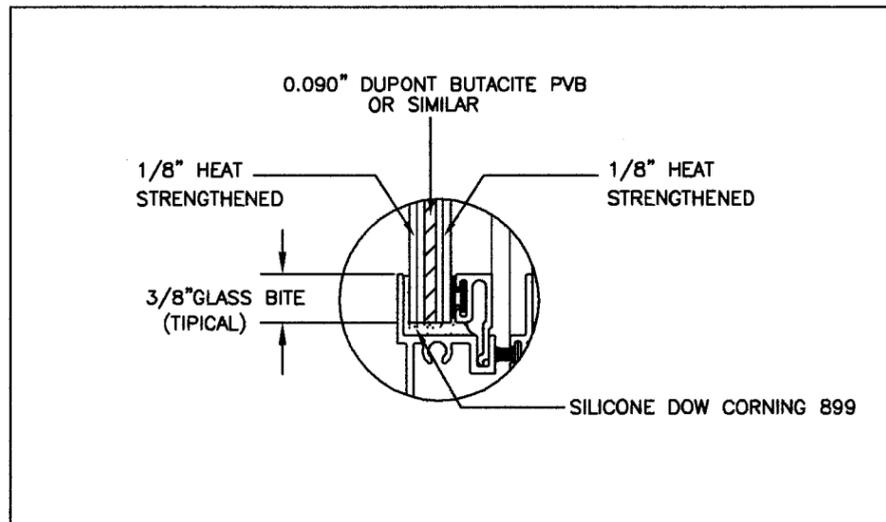
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 By *Francisco Hernandez*
 Miami Dade Product Control
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 7-24-08
 FRANCISCO HERNANDEZ
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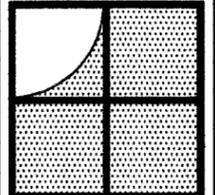
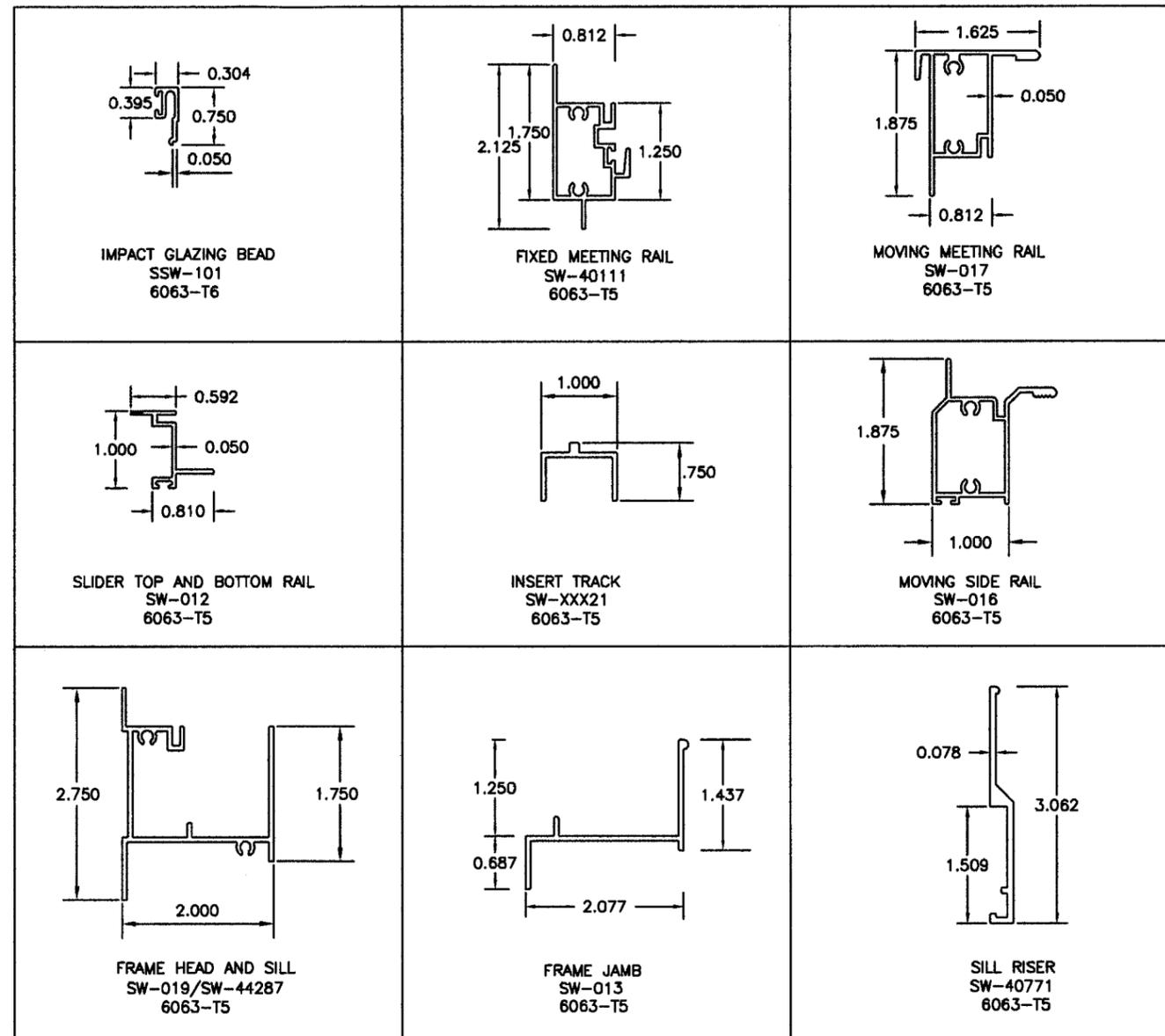
MATERIAL LIST

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	SW40111	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	SW40771	1	SILL RISER	6063-T5

GLAZING DETAIL



IMPACT RESISTANT WINDOWS



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

Drawn By: RF
Date: 07-21-08
Scale: 1/2"=1'
Revision: _____
Revision: _____

DRAWING NO.
HR08-02

SHEET
6 OF 6

PRODUCT REVISED
to comply with the Florida
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Acceptance No. 08-0820-12
Registration Date 8-19-13
By: *Francisco Hernandez*
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Division

FH
7-24-08
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