



MIAMI-DADE COUNTY, FLORIDA
 METRO-DADE FLAGLER BUILDING
 140 WEST FLAGLER STREET, SUITE 1603
 MIAMI, FLORIDA 33130-1563
 (305) 375-2901 FAX (305) 372-6339
www.miamidade.gov/buildingcode

**BUILDING CODE COMPLIANCE OFFICE (BCCO)
 PRODUCT CONTROL DIVISION
 NOTICE OF ACCEPTANCE (NOA)**

**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 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 Aluminum Horizontal Sliding Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. **HS08-01**, titled "Series 1650 Aluminum Horizontal Sliding Window (XO) Impact Resistant Glass", sheets 1 through 7 of 7, dated 03/14/08, prepared by manufacturer, signed and sealed by Francisco Hernandez, P.E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and Approval 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 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.**



NOA No. 08-0107.08
 Expiration Date: April 10, 2013
 Approval Date: April 10, 2008
 Page 1

Sunshine Windows Manufacturing, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No **HS08-01**, titled "Series 1650 Aluminum Horizontal Sliding Window (XO) Impact Resistant Glass", sheets 1 through 7 of 7, dated 03/14/08, prepared by manufacturer, signed and sealed by Francisco Hernandez, P.E.

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, TAS 202-94along with marked-up drawings and installation diagram of Aluminum Horizontal Sliding Window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-5331**, dated 09/18/07, signed and sealed by Carlos S. Rionda, P.E.
2. 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 202-94along with marked-up drawings and installation diagram of Aluminum Horizontal Sliding Window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-5015**, dated 07/27/07, signed and sealed by Carlos S. Rionda, P.E.

C. CALCULATIONS

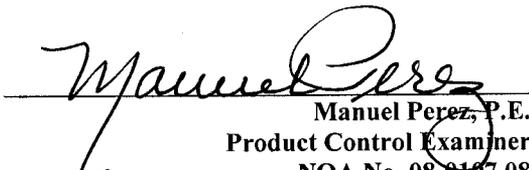
1. Anchor verification calculations and structural analysis, complying with FBC-2004, prepared by Sunshine Windows Manufacturing, Inc., dated 12/15/07, signed and sealed by Francisco Hernandez, P.E.
Complies with ASTM E1300-02

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **05-1208.02** issued to E.I. DuPont DeNemours & CO., Inc. for "**DuPont Butacite PVB. Interlayer.**" dated January 05, 2006, expiring on December 11, 2010.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 08-0107.08
Expiration Date: April 10, 2013
Approval Date: April 10, 2008

Sunshine Windows Manufacturing, Inc.

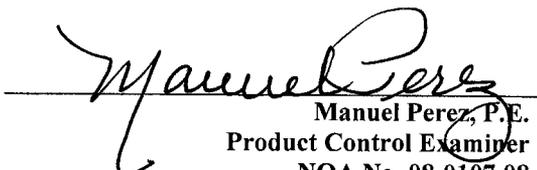
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS

1. Statement letter of conformance, dated December 15, 2007, signed and sealed by Francisco Hernandez, P.E.
2. Statement letter of no financial interest, dated December 15, 2007, signed and sealed by Francisco Hernandez, P.E.
3. Laboratory compliance letter for Test Report no. **FTL-5331**, issued by Fenestration Testing Laboratory, Inc., dated September 21, 2007, signed and sealed by Carlos S. Rionda, P.E.
4. Laboratory compliance letter for Test Report no. **FTL-5015**, issued by Fenestration Testing Laboratory, Inc., dated August 07, 2007, signed and sealed by Carlos S. Rionda, P.E.

G. OTHER

1. None

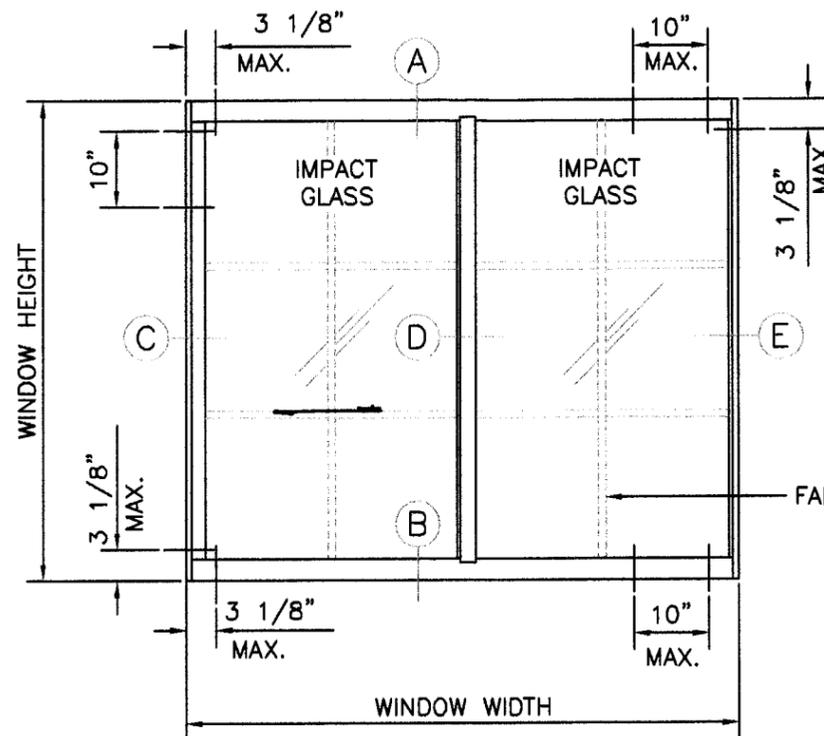

Manuel Perez, P.E.
Product Control Examiner
NOA No. 08-0107.08
Expiration Date: April 10, 2013
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DESIGN PRESSURE CHART - PSF
SERIES 1650 ALUMINUM
HORIZONTAL SLIDING WINDOW (XO)
HEAT STRENGTHENED LAMINATED IMPACT
RESISTANT GLASS

WINDOW DIMENSION **ANCHOR SCHEDULE** **HURRICANE PROTECTION IS NOT REQUIRED**

WIDTH	HEIGHT	PER HEAD & SILL	PER JAMB	1 3/4" SILL		3" SILL	
				EXT.	INT.	EXT.	INT.

STANDARD SIZES	26 1/2"	26"	3	3	53.33	120.00	80.00	120.00
	37"		4		53.33	120.00	80.00	120.00
	53 1/8"		6		53.33	119.30	80.00	119.3
	74"		8		53.33	90.0	80.00	90.00
	26 1/2"	38 3/8"	3	5	53.33	120.0	80.00	120.00
	37"		4		53.33	120.0	80.00	120.00
	53 1/8"		6		53.33	95.50	80.00	95.50
	74"		8		53.33	78.90	78.90	78.90
	37"	50 5/8"	4	6	53.33	104.70	80.00	104.70
	53 1/8"		6		53.33	88.40	80.00	88.40
	74"		8		53.33	67.30	67.30	67.30
	37"	63"	4	7	53.33	88.20	80.00	88.20
53 1/8"	6		53.33		75.00	75.00	75.00	
74"	8		53.33		62.00	62.00	62.00	
MODULAR SIZES	24"	24"	3	3	53.33	120.0	80.00	120.0
	36"		4		53.33	120.0	80.00	120.0
	48"		5		53.33	120.0	80.00	120.0
	60"		6		53.33	120.00	80.00	120.0
	72"		7		53.33	90.00	80.00	90.00
	24"	36"	3	4	53.33	120.00	80.00	120.0
	36"		4		53.33	120.00	80.00	120.0
	48"		5		53.33	120.00	80.00	120.0
	60"		6		53.33	99.90	80.00	99.90
	72"		7		53.33	88.60	80.00	88.60
	36"	48"	4	5	53.33	100.40	80.00	100.40
	48"		5		53.33	93.90	80.00	93.90
	60"		6		53.33	87.00	80.00	87.00
	72"		7		53.33	74.30	74.30	74.30
	36"	60"	4	7	53.33	90.00	80.00	90.00
	48"		5		53.33	87.00	80.0	87.00
60"	6		53.33		83.40	80.0	83.40	
72"	7		53.33		67.80	67.80	67.80	



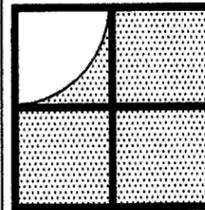
TYPICAL ELEVATION (XO)

GENERAL NOTES: IMPACT HORIZONTAL ROLLER WINDOW.

- 1.- CONFIGURATIONS OX AND XO
- 2.- FOR NUMBER OF ANCHORS FOR EACH UNIT SIZE REFER TO DESIGN PRESSURE CHART
- 3.- REFERENCES: TEST REPORTS FTL-5015 AND FTL-5331.
- 4.- THIS PRODUCT MEETS THE REQUIREMENTS OF THE 2004 FLORIDA BUILDING CODE
- 5.- FASTENERS MUST HAVE THEIR OWN NOTICE OF ACCEPTANCE AND MUST BE MADE OF STAINLESS STEEL OR HAVE ADEQUATE PROTECTION AGAINST CORROSION, PER DIN 50018. ALUMINUM CONTACTING METALS SHALL BE PROPERLY PROTECTED.
- 6.- GLAZING: 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 OR SIMILAR

MIAMI- DADE IMPACT RESISTANT SHUTTERS ARE NOT REQUIRED

IMPACT RESISTANT WINDOW



Sunshine Windows
Manufacturing, Inc.

1745 W. 33rd Place
Hialeah, Florida 33012
Ph: (305)364-9952
Fax: (305)828-5118

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

Approved as complying with the
Florida Building Code
Date *04/10/2008*
NOA# *08-0107.08*
Miami Dade Product Control
Division
By *Manuel Perez*

Drawn By: RF
Date: 03-14-08
Scale: 1/2"=1'
Revision: _____
Revision: _____

DRAWING NO.
HS08-01

SHEET
1 OF 7

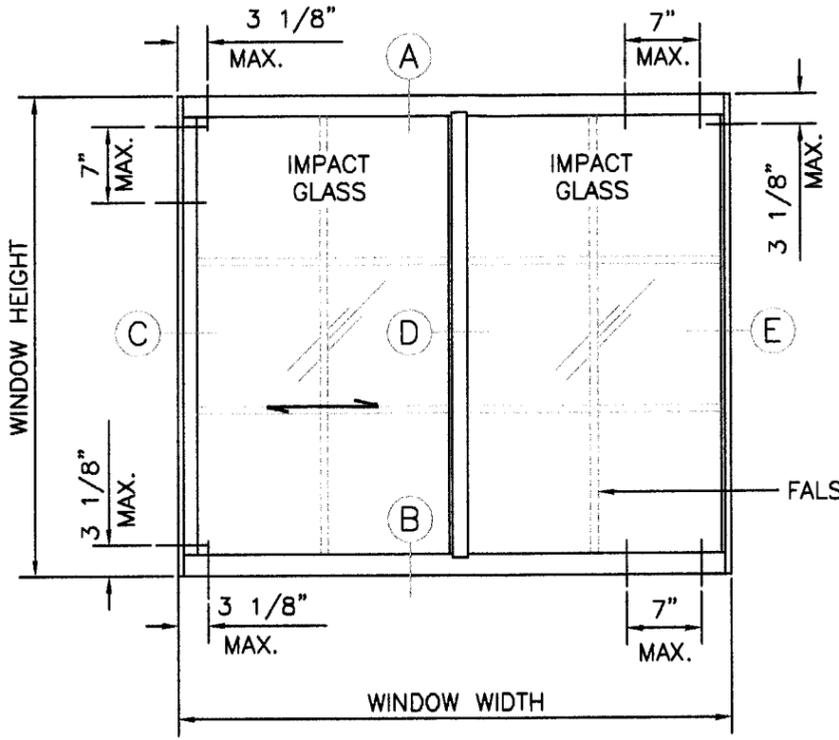
Francisco Hernandez
3-15-08

FRANCISCO HERNANDEZ
FLORIDA PE # 51393

DESIGN PRESSURE CHART - PSF
SERIES 1650 ALUMINUM
HORIZONTAL SLIDING WINDOW (XO)
HEAT STRENGTHENED LAMINATED IMPACT
RESISTANT GLASS

WINDOW DIMENSION		ANCHOR SCHEDULE		HURRICANE PROTECTION IS NOT REQUIRED			
WIDTH	HEIGHT	PER HEAD & SILL	PER JAMB	1 3/4" SILL		3" SILL	
				EXT.	INT.	EXT.	INT.
74"	38 3/8"	11	6	53.33	90.00	80.00	90.00
74"	50 5/8"	11	8	53.33	90.00	80.00	90.00
37"	63"	6	9	53.33	90.00	80.00	90.00
53 1/8"		8		53.33	90.00	80.00	90.00
74"		11		53.33	85.20	80.00	85.20
72"	48"	11	7	53.33	90.00	80.00	90.00
48"	60"	7	9	53.33	90.00	80.00	90.00
60"		9		53.33	90.00	80.00	90.00
72"		11		53.33	90.00	80.00	90.00

SIZES
STANDARD
MODULAR



TYPICAL ELEVATION (XO)

FALSE MUNTINS (SURFACE APPLIED) MAY BE USED

- GENERAL NOTES: IMPACT HORIZONTAL ROLLER WINDOW.
- 1.- CONFIGURATIONS OX AND XO
 - 2.- FOR NUMBER OF ANCHORS FOR EACH UNIT SIZE REFER TO DESIGN PRESSURE CHART
 - 3.- REFERENCES: TEST REPORTS FTL-5015 AND FTL-5331.
 - 4.- THIS PRODUCT MEETS THE REQUIREMENTS OF THE 2004 FLORIDA BUILDING CODE
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 - 6.- GLAZING: 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 OR SIMILAR

MIAMI- DADE IMPACT RESISTANT SHUTTERS ARE NOT REQUIRED

IMPACT RESISTANT WINDOW

Sunshine Windows Manufacturing, Inc.
 1745 W. 33rd Place
 Hialeah, Florida 33012
 Ph: (305)364-9952
 Fax: (305)828-5118

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

Approved as complying with the Florida Building Code
 Date 04/10/2008
 NOA# 08-0107-08
 Miami Dade Product Control Division
 By *Maurice Perry*

FHT
 3-15-08

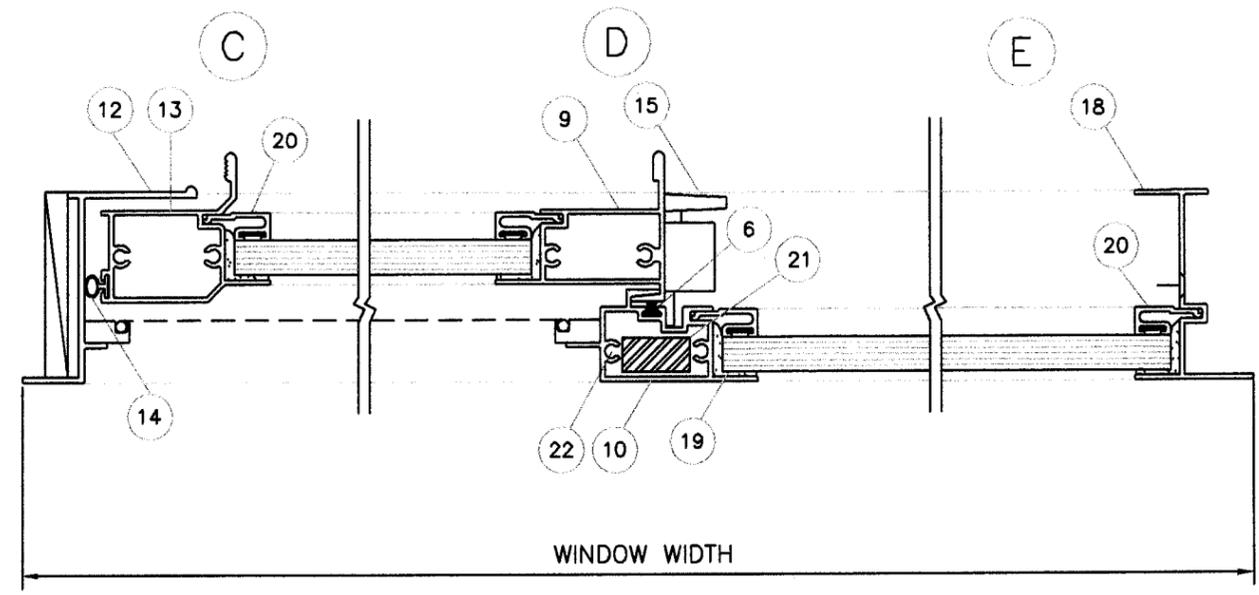
FRANCISCO HERNANDEZ
 FLORIDA PE # 51393

Drawn By: RF
 Date: 03-14-08
 Scale: 1/2"=1'
 Revision: _____
 Revision: _____

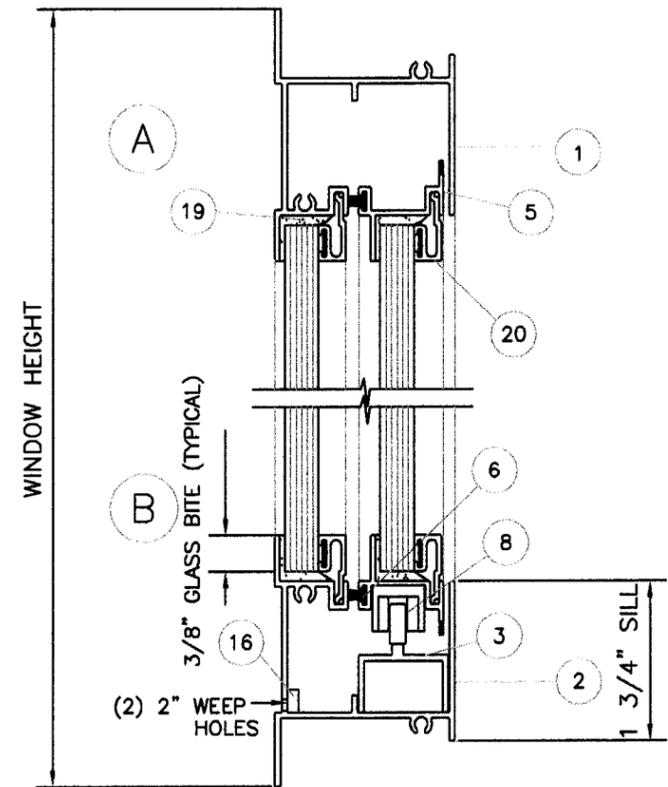
DRAWING NO.
 HS08-01

SHEET
 2 OF 7

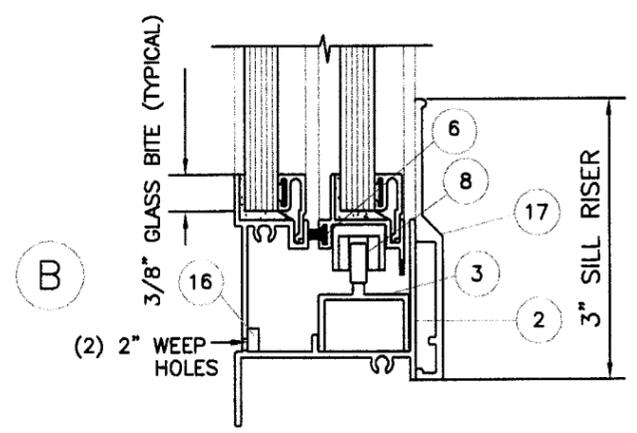
Sunshine Windows
Manufacturing, Inc.
1745 W. 33rd Place
Hialeah, Florida 33012
Ph: (305)364-9952
Fax: (305)828-5118



HORIZONTAL SECTION



VERTICAL SECTION



VERTICAL SECTION WITH SILL RISER

IMPACT RESISTANT WINDOW

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

Approved as complying with the
Florida Building Code
Date: 04/10/2008
NOA# 08-0107.08
Miami Dade Product Control
Division
By: *Manuel Peraz*

Drawn By: RF
Date: 03-14-08
Scale: 1/2"=1'
Revision:
Revision:
FH
3-15-08
FRANCISCO HERNANDEZ
FLORIDA PE # 51393

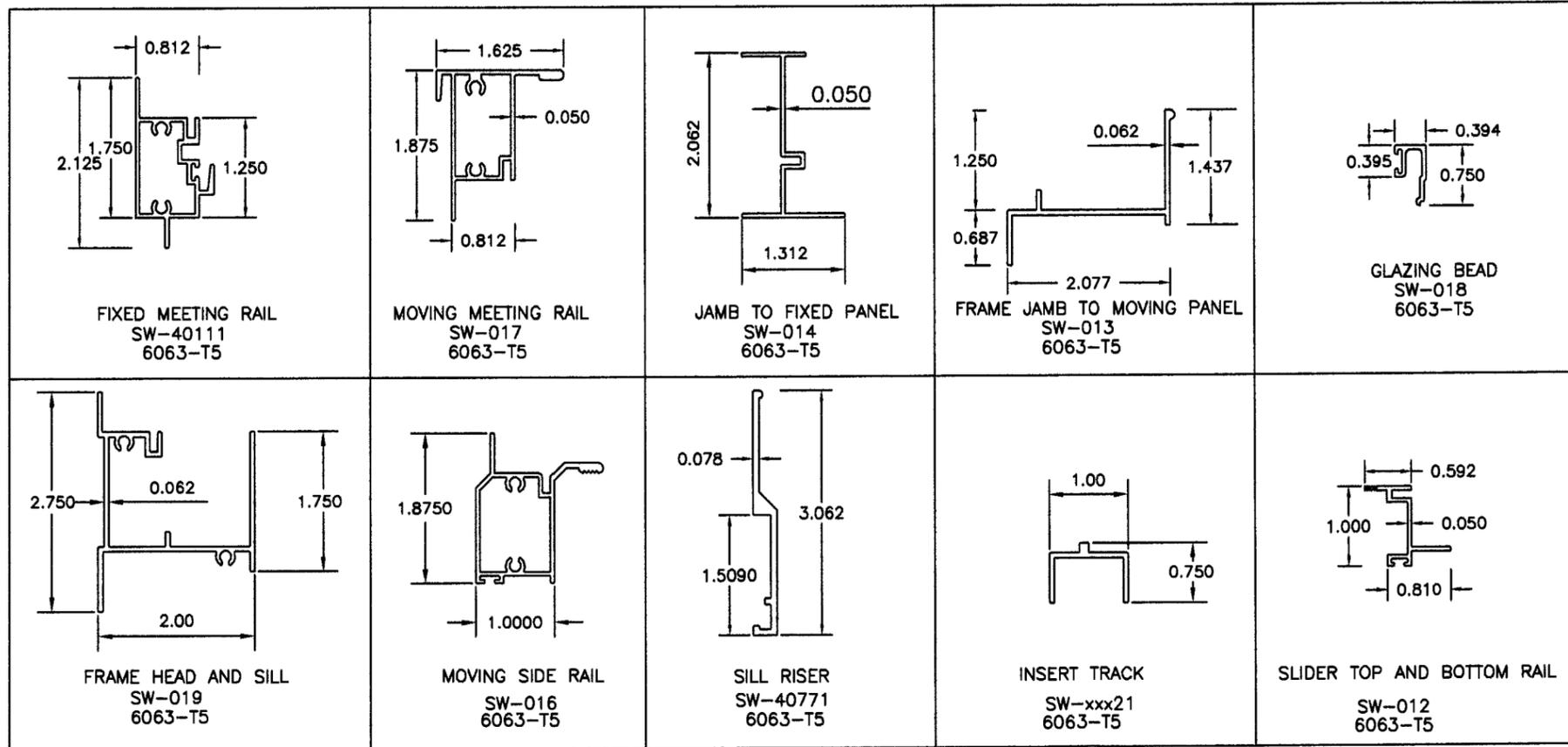
DRAWING NO.
HS08-01
SHEET
3 OF 7

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
5	SW-012	2	SLIDER TOP/BOTTOM RAIL	6063-T5
6	SW3019	AS RQD	FIN SEAL PILE	FELT
8	SW321W	2	WHEEL	BRASS
9	SW-017	1	MOVING MEETING RAIL	6063-T5
10	SW40111	1	FIXED MEETING RAIL	6063-T5
11	SW-AS	AS RQD	ASSEMBLY SCREWS	# 8 X 1" SMS.
12	SW-013	1	JAMB TO MOVING PANEL	6063-T5

MATERIAL LIST

ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL
13	SW-016	1	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	SW40771	1	SILL RISER	6063-T5
18	SW-014	1	JAMB TO FIXED PANEL	6063-T5
19	-	AS RQD	SILICONE	PEC.-895 OR SIMILAR
20	SW-101	AS RQD	IMPACT GLAZING BEAD	6063-T6
21	SW-STL	1	3/8" X 3/4" FLAT BAR	STEEL
22	SW-AS	4	ASSEMBLY SCREWS	# 8 X 2 1/2" SMS.



Approved as complying with the Florida Building Code
 Date 04/10/2008
 NOA# 08-0107.08
 Miami Dade Product Control Division
 By *Manuel Perez*

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

Drawn By: RF
 Date: 03-14-08
 Scale: 1/2"=1'
 Revision: _____
 Revision: _____

FR
3-15-08

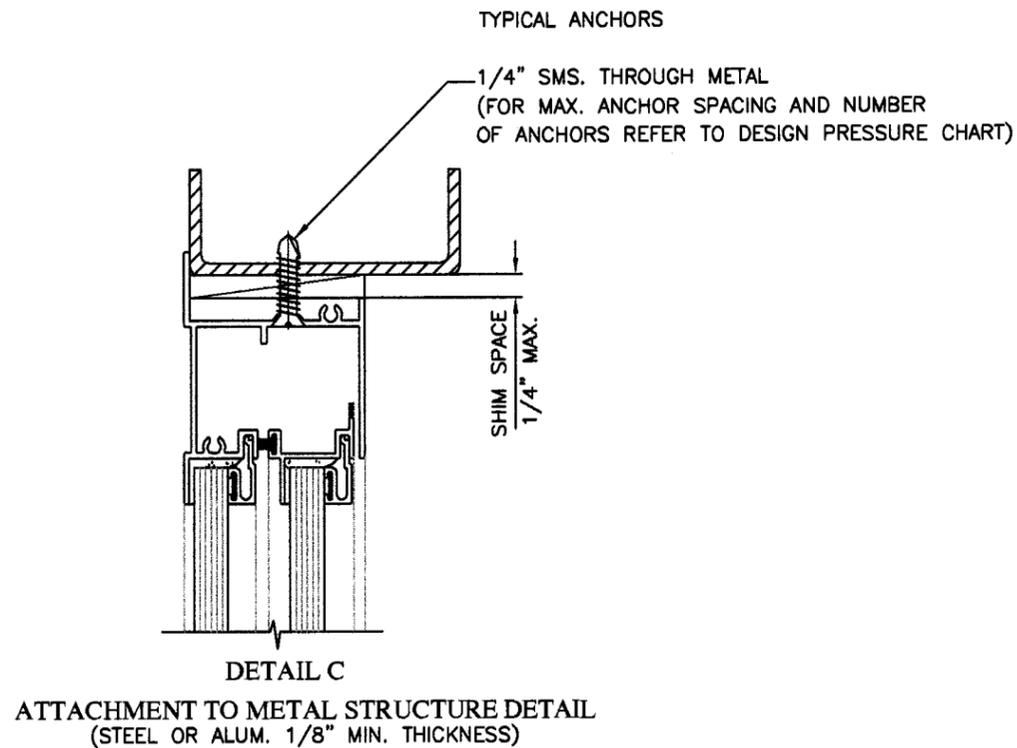
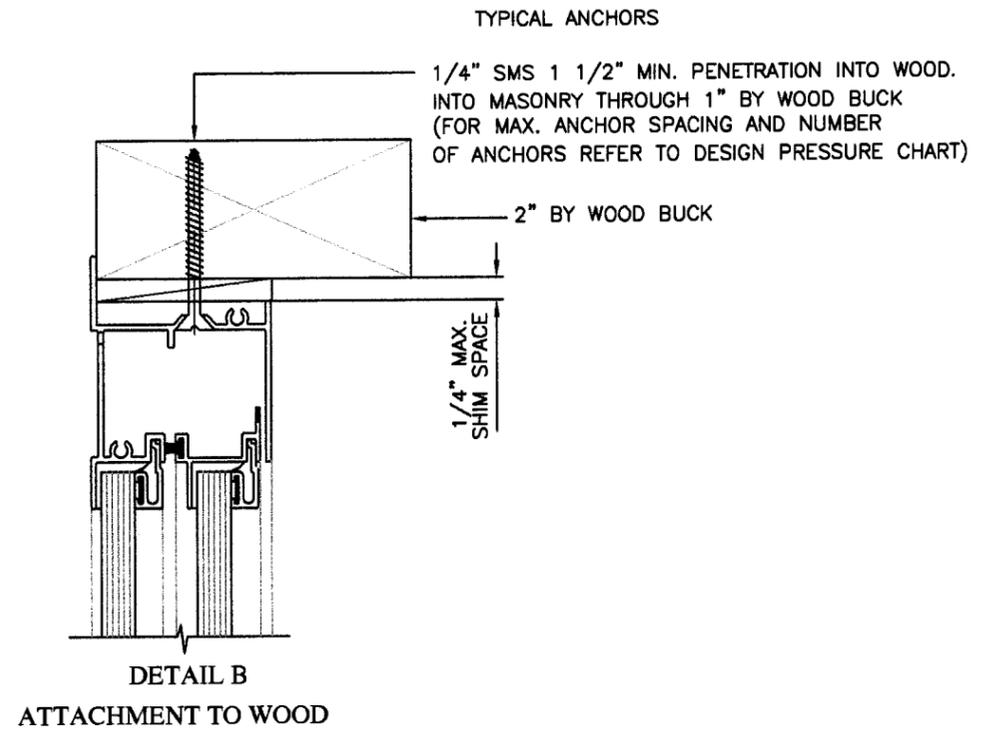
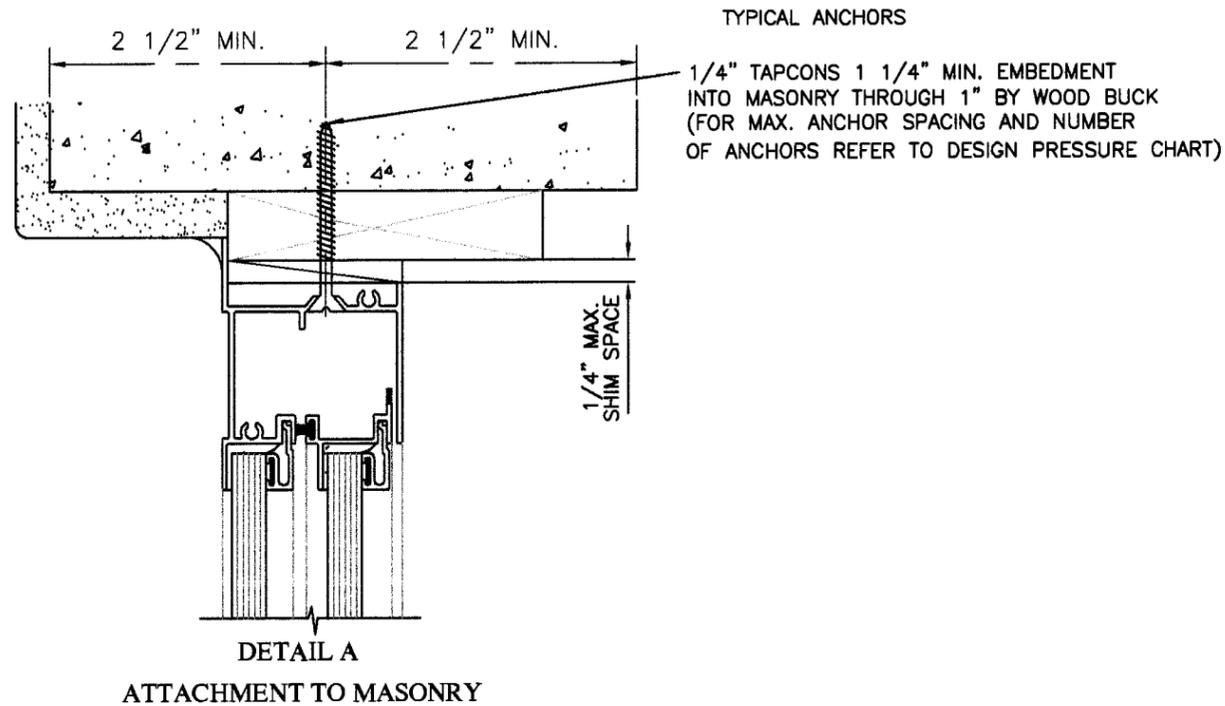
DRAWING NO.
HS08-01

SHEET
4 OF 7

FRANCISCO HERNANDEZ
FLORIDA PE # 51393

IMPACT RESISTANT WINDOW

Sunshine Windows
 Manufacturing, Inc.
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 Ph: (305)364-9952
 Fax: (305)828-5118



TYPICAL HEAD SECTIONS

IMPACT RESISTANT WINDOW

Approved as complying with the
Florida Building Code
Date *04/10/2008*
NOA# *08-0167-08*
Miami Dade Product Control
Division
By *Manuel Perez*

FH
3-15-08

FRANCISCO HERNANDEZ
FLORIDA PE # 51393

Sunshine Windows
Manufacturing, Inc.
1745 W. 33rd Place
Hialeah, Florida 33012
Ph: (305)364-9952
Fax:(305)828-5118

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

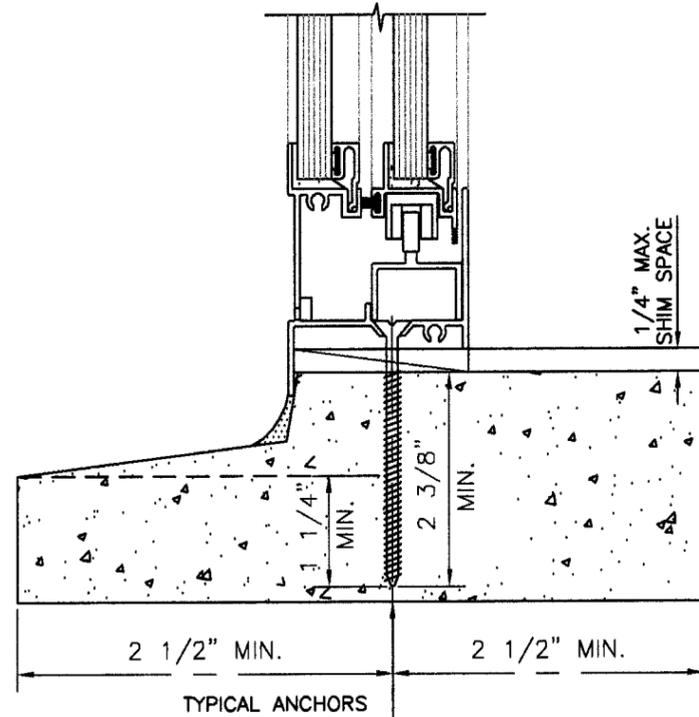
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Scale: 1/2"=1'
Revision:
Revision:

DRAWING NO.
HS08-01

SHEET
5 OF 7

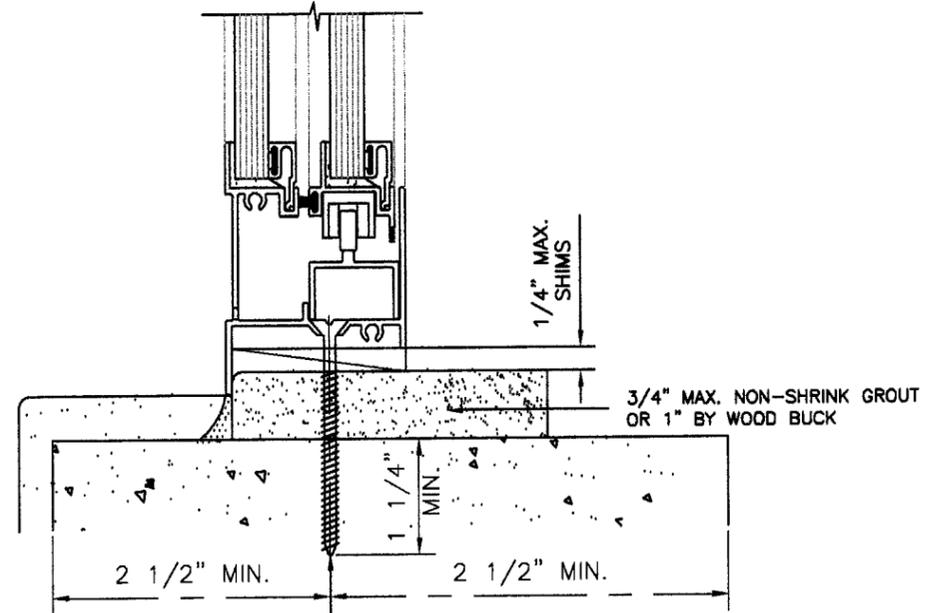
Sunshine Windows
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SERIES 1650 ALUMINUM
HORIZONTAL SLIDING WINDOW (XO)
IMPACT RESISTANT GLASS



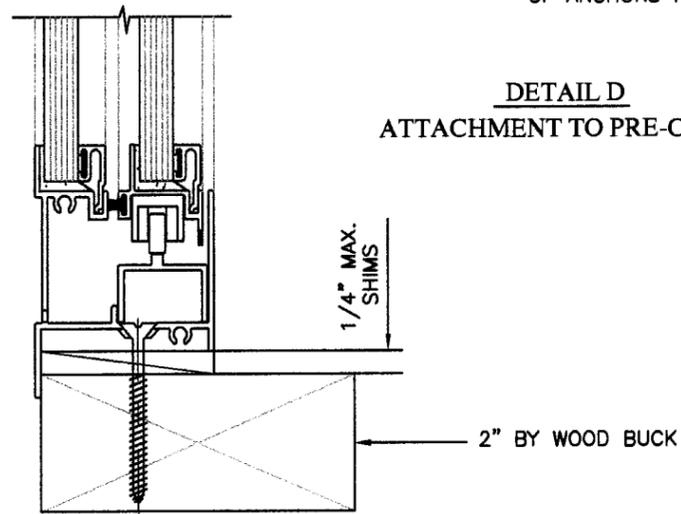
TYPICAL ANCHORS

1/4" TAPCONS 1 1/4" MIN. EMBEDMENT INTO MASONRY
(FOR MAX. ANCHOR SPACING AND NUMBER OF ANCHORS REFER TO DESIGN PRESSURE CHART)



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 DESIGN PRESSURE CHART)

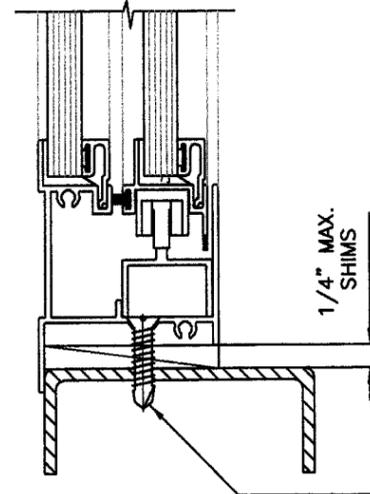


DETAIL D
ATTACHMENT TO PRE-CAST SILL

TYPICAL ANCHORS

1/4" SMS 1 1/2" MIN. PENETRATION INTO WOOD.
(FOR MAX. ANCHOR SPACING AND NUMBER OF ANCHORS REFER TO DESIGN PRESSURE CHART)

DETAIL F
ATTACHMENT TO WOOD



DETAIL E
ATTACHMENT TO MASONRY

TYPICAL ANCHORS

1/4" SMS THROUGH METAL.
(FOR MAX. ANCHOR SPACING AND NUMBER OF ANCHORS REFER TO DESIGN PRESSURE CHART)

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

Approved as complying with the
Florida Building Code
Date: 04/10/2008
NOA# 08-0107.08
Miami Dade Product Control
Division
By: *[Signature]*

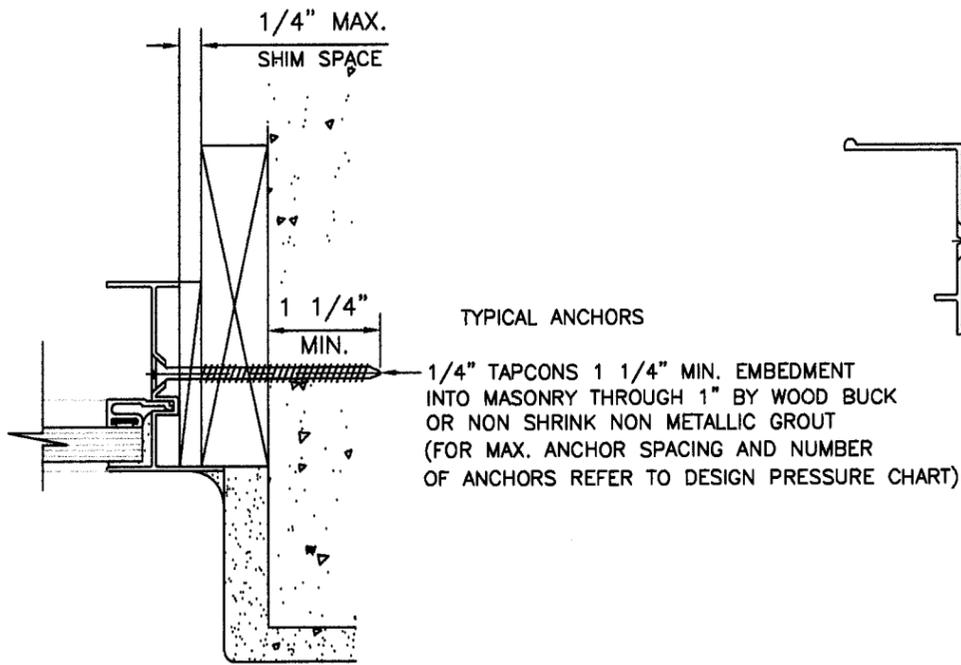
Drawn By: RF
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Revision:
Revision:

DRAWING NO.
HS08-01

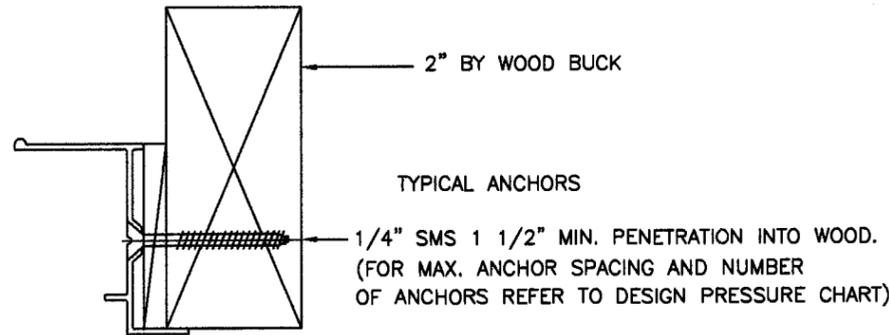
SHEET
6 OF 7

[Signature]
3-15-08
FRANCISCO HERNANDEZ
FLORIDA PE # 51393

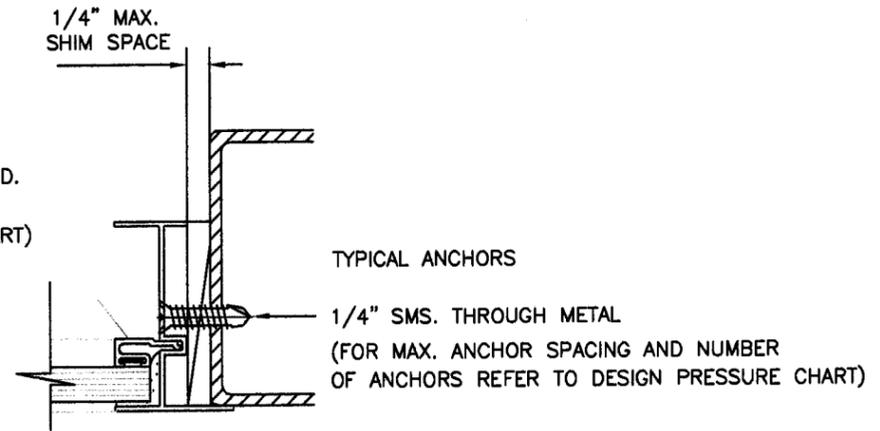
TYPICAL SILL SECTIONS
IMPACT RESISTANT WINDOW



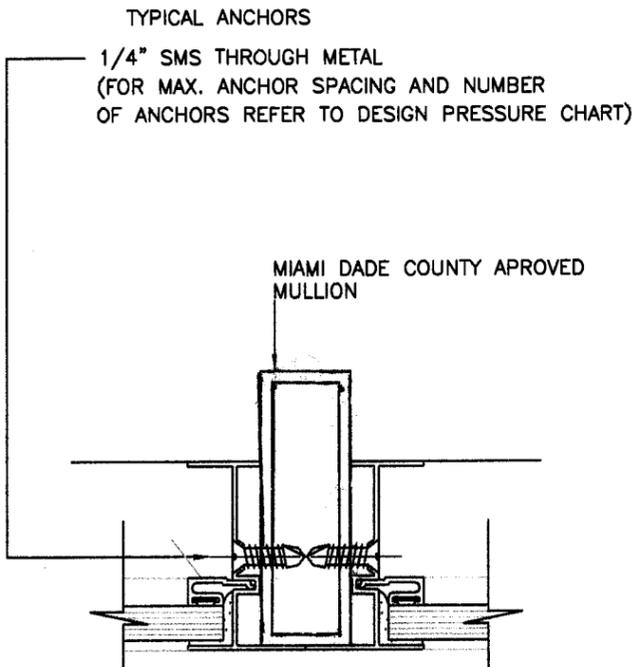
DETAIL H
ATTACHMENT TO MASONRY



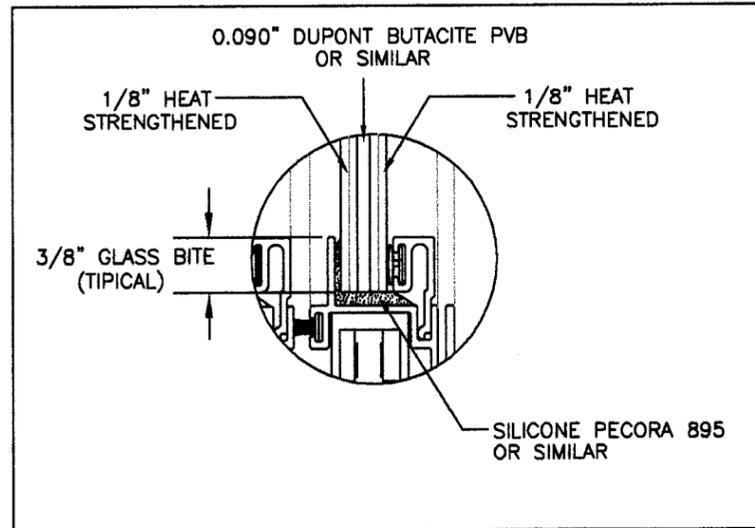
DETAIL I
ATTACHMENT TO WOOD DETAIL



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



ATTACHMENT TO MULLIONS DETAIL



GLAZING: 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 OR SIMILAR

TYPICAL JAMB SECTIONS

IMPACT RESISTANT WINDOW

Sunshine Windows Manufacturing, Inc.
1745 W. 33rd Place
Hialeah, Florida 33012
Ph: (305)364-9952
Fax: (305)828-5118

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

Approved as complying with the Florida Building Code
Date: 04/10/2008
NOA# 08-0107.08
Miami Dade Product Control Division
By: *Manuel Perez*

Francisco Hernandez

3-15-08

FRANCISCO HERNANDEZ
FLORIDA PE # 51393

Drawn By: RF
Date: 03-14-08
Scale: 1/2"=1'
Revision: _____
Revision: _____

DRAWING NO.
HS08-01

SHEET
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