



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

MIAMI-DADE COUNTY, FLORIDA
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 "2009" Outswing Aluminum Casement Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. CS09-01, titled "Series 2009 Out-Swinging Aluminum Casement Window – Impact Resistant Glass", sheets 01 through 06 of 06, dated 12/03/08, with revision no. 2 dated 12/22/14, prepared by manufacturer, signed and sealed by Francisco Hernandez, P. E., bearing the Miami-Dade County Product Control Section 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, city, state, 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 No. 14-0203.05 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 **Jaime D. Gascon, P. E.**



*J Gascon
4/1/15*

NOA No. 15-0120.03
Expiration Date: June 17, 2019
Approval Date: April 09, 2015

Sunshine Windows Manufacturing, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
(Submitted under previous NOA No. 08-1224.10)
2. Drawing No. CS09-01, titled "Series 2009 Out-Swinging Aluminum Casement Window - Impact Resistant Glass", sheets 01 through 06 of 06, dated 12/03/08, with revision no. 2 dated 12/22/14, 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, and TAS 202-94along with marked-up drawings and installation diagram of a series 2000 aluminum single hung window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. FTL-5560, dated 09/04/08, signed and sealed by Carlos S. Rionda, P. E.
(Submitted under previous NOA No. 08-1224.10)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC 5th Edition (2014)**, prepared by manufacturer, dated 12/22/14, signed and sealed by Francisco Hernandez, P. E.
2. **Glazing complies with ASTM E1300-04/ 09**

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **14-0916.10** issued to **Kuraray America, Inc.** for their "**Kuraray PVB Glass Interlayer**" expiring on 12/11/16.
2. Pecora Corp. Part No. **Pecora 895 EPDM exterior glazing gasket** complying with ASTM C 794—30 pli, ASTM D412—Tension of 550 PSI, ASTM D 624—40 lbs./ in., ASTM D 2240—Hardness Shore A 27 Durometer, ASTM C 510—None, ASTM D 471—70 HRS 257°F and ASTM D 3835—3.0 HRS 180°F, ASTM C 719—±50%, ASTM D 3960—12 g/L, ASTM C 679—3hrs. 7 to 14 days, ASTM C 639—Nil.



Jaime D. Gascon, P. E.
Product Control Section Supervisor
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F. STATEMENTS

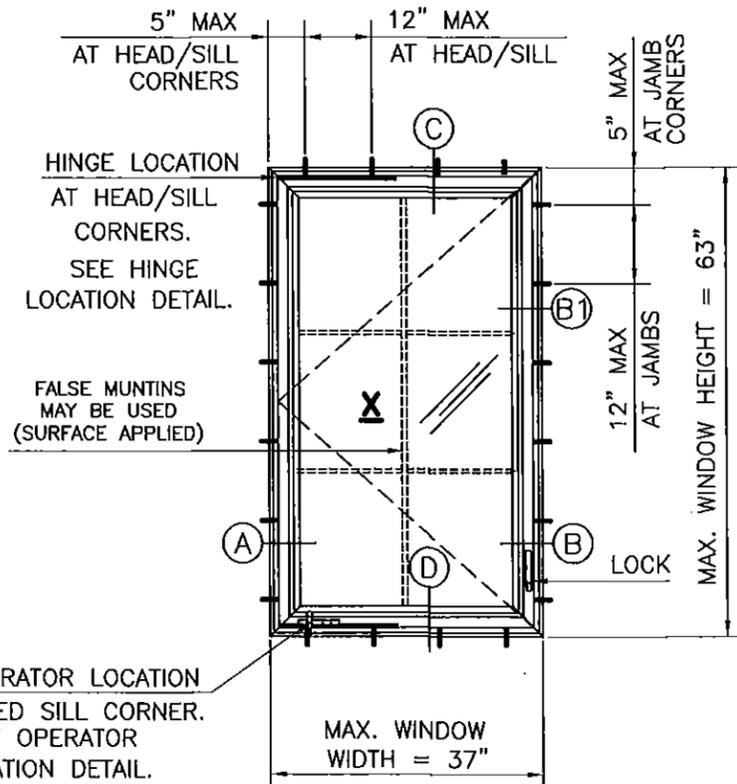
1. Statement letter of conformance to, complying with **FBC 5th Edition (2014)** and of no financial interest, dated 01/05/15, signed and sealed by Francisco Hernandez, P. E.
2. Department of State Certification of **SUNSHINE WINDOWS MANUFACTURING CORPORATION, INC.** as a for profit corporation, active and organized under the laws of the State of Florida, dated 11/24/14 and filed by the Secretary of State.
3. Statement letter of conformance, complying with **FBC-2010** and of no financial interest, dated 03/09/12, signed and sealed by Francisco Hernandez, P. E.
(Submitted under previous NOA No.12-0314.12)
4. Laboratory compliance letter for Test Report No. **FTL-5560**, dated 05/12/09, issued by Fenestration Testing Laboratory, Inc., signed and sealed by Michael Wenzel, P. E.
(Submitted under previous NOA No.08-1224.10)

G. OTHERS

1. Notice of Acceptance No. **14-0203.05**, issued to Sunshine Windows Manufacturing, Inc. for their Series "2009 Outswing Aluminum Casement Window - L.M.I.", approved on 03/27/14 and expiring on 06/17/19.



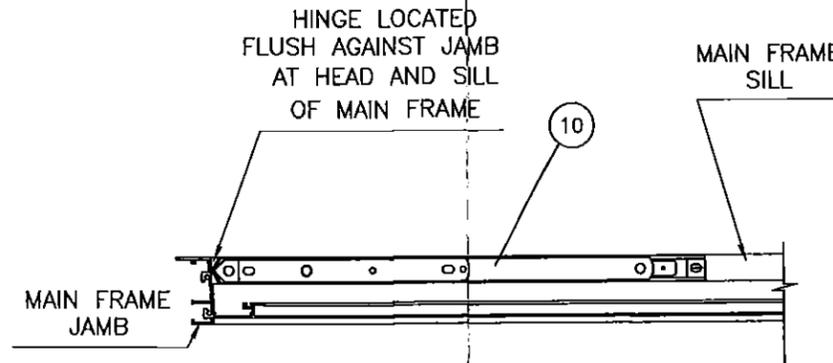
Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 15-0120.03
Expiration Date: June 17, 2019
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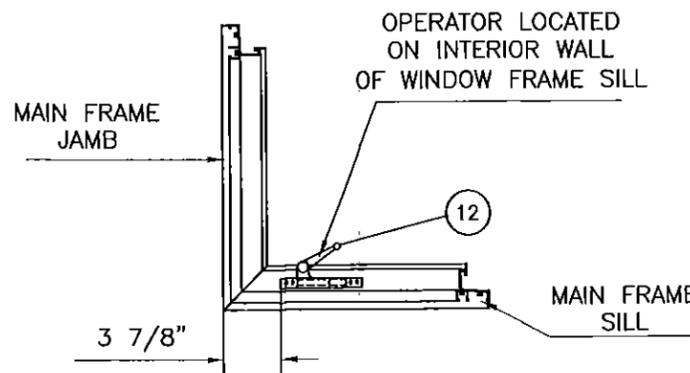
SINGLE VENT CASEMENT WINDOW

GENERAL NOTES:

- 1.- THIS PRODUCT MEETS THE REQUIREMENTS OF FBC 5TH EDITION (2014). THE DESIGN PRESSURES REMAIN THE SAME AS IN THE PREVIOUS NOA IN COMPLIANCE WITH FBC 2010.
- 2.- SHUTTERS ARE NOT REQUIRED.
- 3.- HINGE LEFT OR HINGE RIGHT CONFIGURATION.
- 4.- FOR NUMBER OF ANCHORS FOR EACH UNIT SIZE REFER TO DESIGN PRESSURES CHART.
- 5.- FOR ANCHOR TYPE AND SPACING REFER TO TYPICAL ELEVATIONS AND SECTIONS ON SHEET 4 THRU 6.
- 6.- CONCRETE / MASONRY STRUCTURE FOR UNIT ATTACHMENT SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS:
 - CONCRETE STRENGTH $F_c'28 = 3000$ PSI MIN.
 - CMU AS PER ASTM C90. CMU MUST BE 8-INCH THICK, NORMAL WEIGHT BLOCKS WITH A MINIMUM COMPRESSIVE STRENGTH OF 1.9 KSI.
 - FILLED CMU $F_m' = 2000$ PSI MIN.
- 7.- USE NON-SHRINK, NON-METALIC HYDRAULIC CEMENT GROUT PER ASTM C1107/C1107M STANDARD SPECIFICATION FOR PACKAGED DRY.
- 8.- WOOD HOST STRUCTURE SHALL BE "SOUTHERN YELLOW PINE" $G = 0.55$ OR GREATER DENSITY.
- 9.- STEEL HOST STRUCTURE SHALL NOT BE LESS THAN 18 GAUGE. STEEL SHALL BE $F_y = 36$ KSI MIN.
- 10.- THE THICKNESS OF THE ALUMINUM HOST STRUCTURE SHALL NOT BE LESS THAN 1/8". ALUMINUM SHALL BE 6063-T6.
- 11.- 1X OR 2X WOOD BUCKS NOT INCLUDED IN THE SCOPE OF THIS PRODUCT APPROVAL SHALL BE PROPERLY ATTACHED TO SUSTAIN AND TRANSFER THE LOADS IMPOSED BY THE GLAZING SYSTEM TO THE STRUCTURE AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO DOOR INSTALLATION.
- 12.- ALUMINUM IN CONTACT WITH DISSIMILAR MATERIALS SHALL BE PROTECTED (BY OTHERS) AS SPECIFIED IN FBC 5TH EDITION (2014).

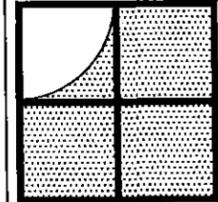


HINGE LOCATION DETAIL



OPERATOR LOCATION DETAIL

DESIGN PRESSURES CHART - PSF						
IMPACT RESISTANT GLASS						
WINDOW DIMENSION		ANCHORS		5/16" IMPACT GLASS		
		PER HEAD & SILL	PER JAMB	EXT.	INT.	
WIDTH	HEIGHT					
STANDARD SIZES	19 1/8"	26"	2	3	90.00	90.00
	26 1/2"		3		90.00	90.00
	37"		4		90.00	90.00
	19 1/8"	38 3/8"	2	4	90.00	90.00
	26 1/2"		3		90.00	90.00
	37"		4		90.00	90.00
19 1/8"	50 5/8"	2	5	90.00	90.00	
26 1/2"		3		90.00	90.00	
37"		4		90.00	90.00	
MODULAR SIZES	19 1/8"	63"	2	6	90.00	90.00
	26 1/2"		3		90.00	90.00
	37"		4		90.00	90.00
	24"	24"	3	3	90.00	90.00
	36"		4		90.00	90.00
	24"	36"	3	4	90.00	90.00
36"	4		90.00		90.00	
24"	48"	3	5	90.00	90.00	
36"		4		90.00	90.00	
24"	60"	3	6	90.00	90.00	
36"		4		90.00	90.00	



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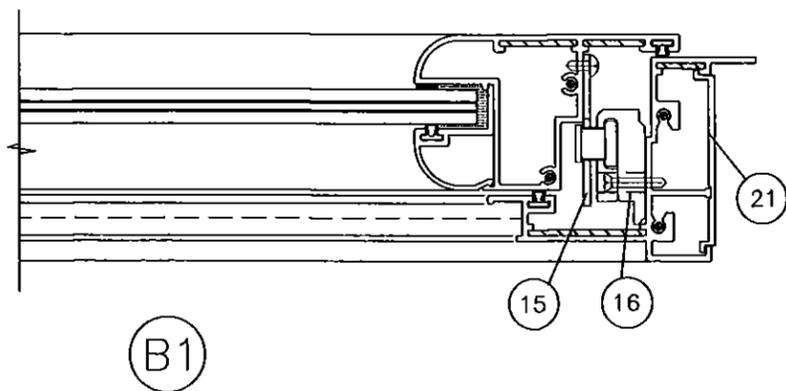
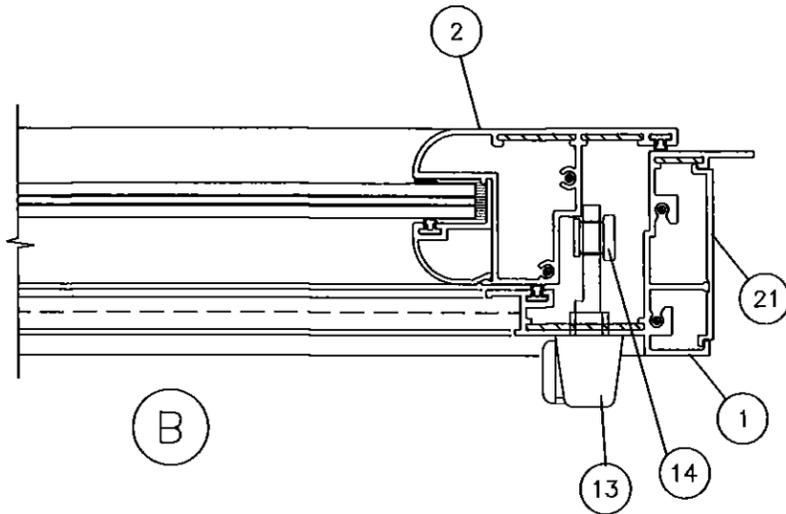
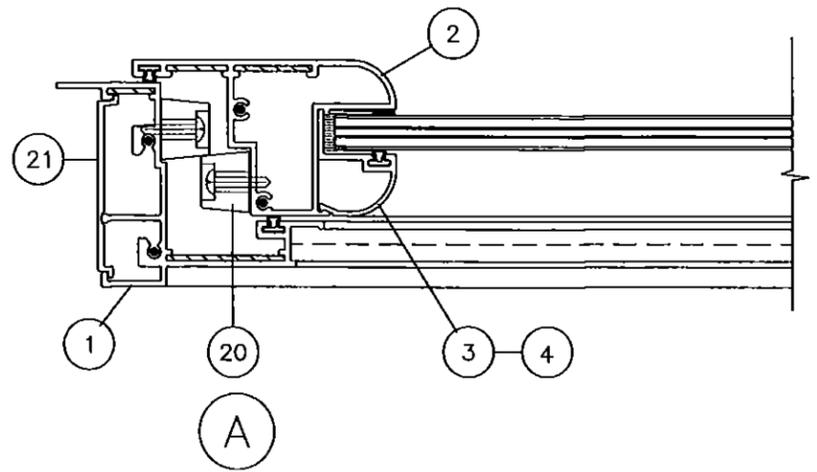
**SERIES 2009 OUT-SWINGING
 ALUMINUM CASEMENT WINDOW
 IMPACT RESISTANT GLASS**

NO	DATE	REVISION
1	03-06-12	UPDATED FOR 2010 FBC
2	12-22-14	REVISION IN COMPLIANCE WITH FBC 5TH EDITION (2014)

PRODUCT REVISED as complying with the Florida Building Code
 Acceptance No. **15-0120.03**
 Expiration Date **07/17/2019**
 By *[Signature]*
 Miami Dade Product Control

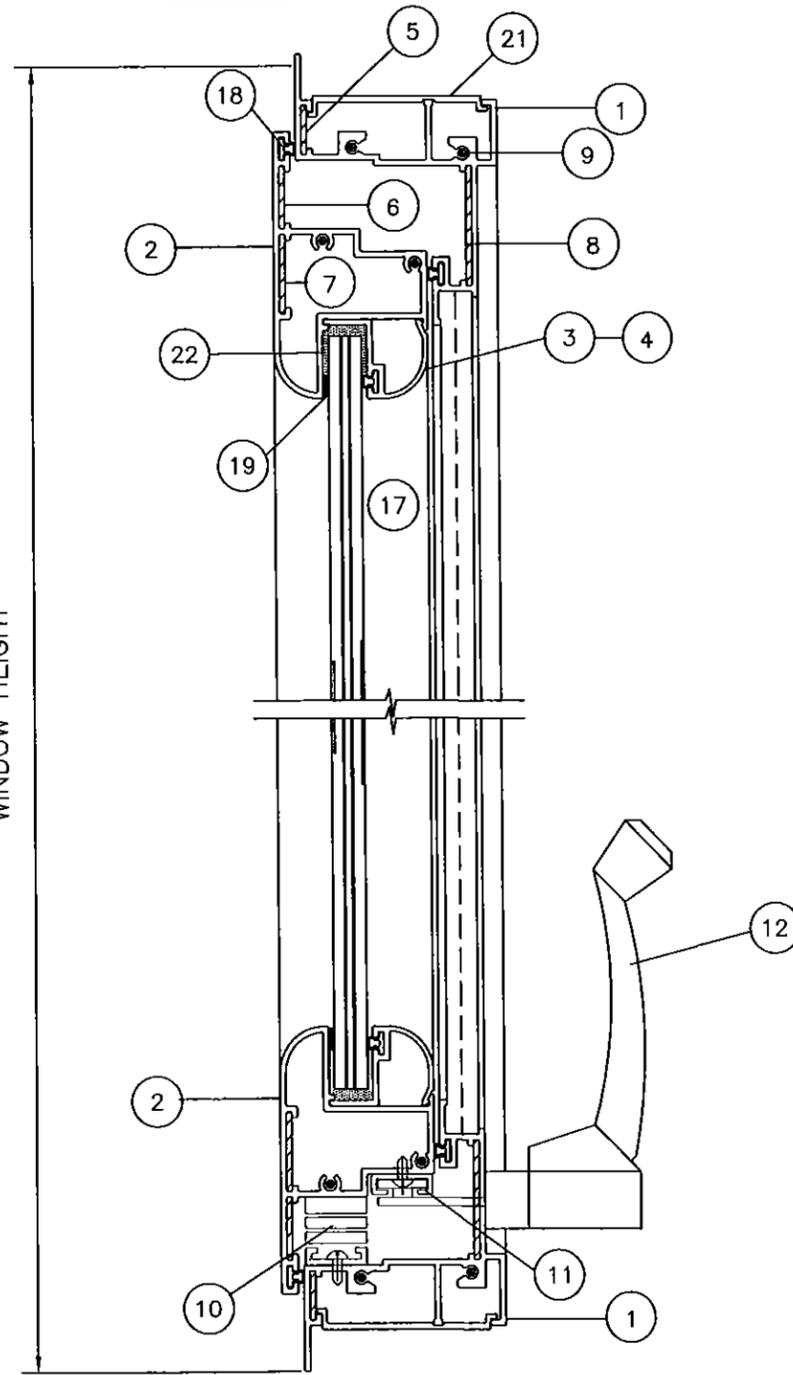
[Signature]
 12-22-14
 FRANCISCO HERNANDEZ
 FLORIDA PE # 51393

DRAWING No. CS09-01
 DATE: 12-03-08
 SCALE: NTS
 SHEET 1 OF 6



HORIZONTAL SECTIONS

(C)



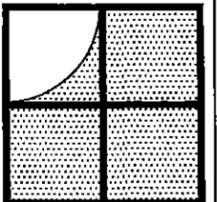
(D)

VERTICAL SECTION

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. **15-0120.03**
Expiration Date **06/17/2019**
By *[Signature]*
Miami Dade Product Control

[Signature]
12-22-14

FRANCISCO HERNANDEZ
FLORIDA PE # 51393



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**SERIES 2009 OUT-SWINGING
ALUMINUM CASEMENT WINDOW
IMPACT RESISTANT GLASS**

No	DATE	REVISION
1	03-06-12	NO CHANGE THIS SHEET
2	12-22-14	REVISION IN COMPLIANCE WITH FBC 5TH EDITION (2014)

DRAWING No.
SGD09

DATE: 12-03-08

SCALE: 1/2"=1"

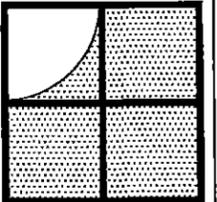
SHEET 2 OF 6

MATERIAL LIST

ITEM#	PART #	QTY	DESCRIPTION	MATERIAL	REMARKS
1	OC-3430	4	FRAME	6063-T5	
2	OC-3428	1	VENT	6063-T5	
3	OC-3427	AS RQD	CURVED GLAZING BEAD	6063-T5	
4	OC-3427 A	AS RQD	RECTANGULAR GLAZING BEAD	6063-T5	
5	-	1	.057" THICK CORNER KEY	STAINLESS STEEL	
6	-	1	.057" THICK CORNER KEY	STAINLESS STEEL	
7	-	1	.057" THICK CORNER KEY	STAINLESS STEEL	
8	-	1	.057" THICK CORNER KEY	STAINLESS STEEL	
9	-	16	ASSEMBLY SCREWS	# 8 X 1" PH SMS	
10	35.13.00	1	EGRESS 4 BAR HINGE	STAINLESS STEEL	TRUTH HARDWARE
11	30175	1	TRACK	STAINLESS STEEL	TRUTH HARDWARE

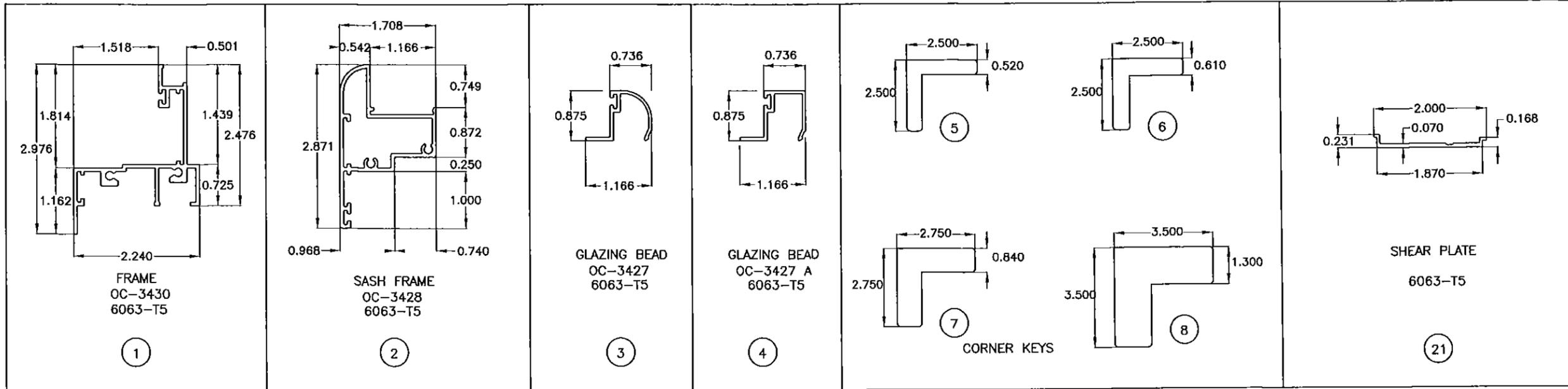
MATERIAL LIST

ITEM#	PART #	QTY	DESCRIPTION	MATERIAL	REMARKS
12	23.01	1	SINGLE ARM OPERATOR	STEEL	TRUTH HARDWARE
13	24.30	1	MULTI-POINT LOCK	ZINC	TRUTH HARDWARE
14	11901-22	1	TIE BAR	STEEL	TRUTH HARDWARE
15	31648	AS RQD	KEEPERS	STEEL	TRUTH HARDWARE
16	03144	AS RQD	TIE BAR GUIDE	NYLON	ULTRA HARDWARE
17	4905	AS RQD	GLAZING BEAD BULB	VINYL	TRUTH HARDWARE
18	E20310KN	AS RQD	WEATHER STRIP BULB	VINYL	ULTRAFAB
19	-	AS RQD	GLAZING TAPE	FOAM	FRANK LOWE
20	-	AS RQD	SNUBBERS	NYLON	
21	-	4	SHEAR PLATE	6063-T5	FULL LENGTH
22	SEALANT	AS RQD	PECORA 895/DOW CORNING 899	SILICONE	



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SERIES 2009 OUT-SWINGING
 ALUMINUM CASEMENT WINDOW
 IMPACT RESISTANT GLASS

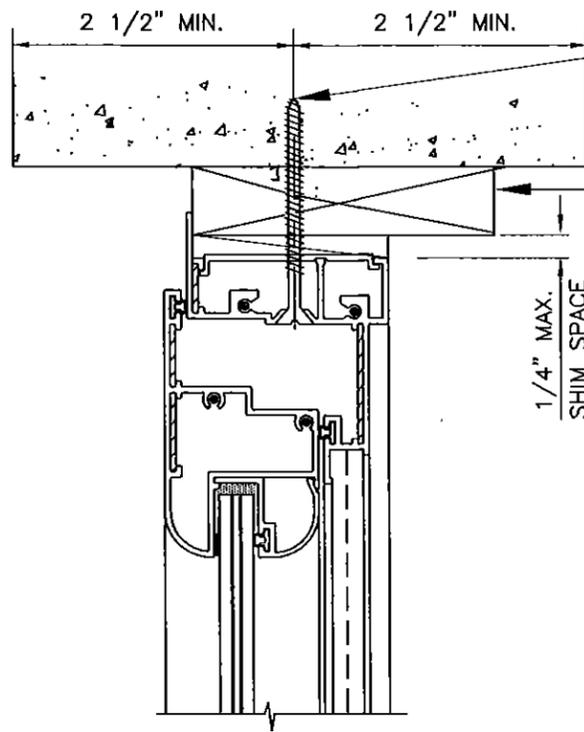


PRODUCT REVISED as compliant with the Florida Building Code
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 By Francisco Hernandez
 Miami Dade Product Control

12-22-14
 FRANCISCO HERNANDEZ
 FLORIDA PE # 51393

No	DATE	REVISION
1	03-06-12	NO CHANGE THIS SHEET
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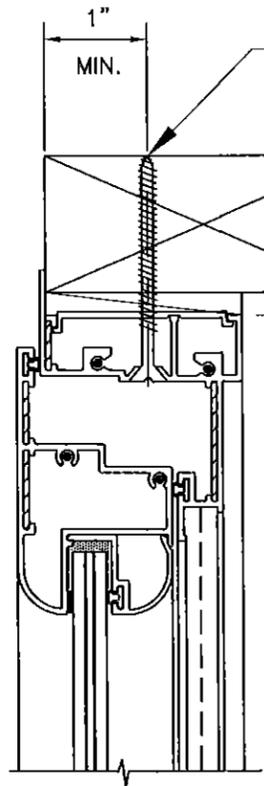
DRAWING No. SGD09
 DATE: 12-03-08
 SCALE: 1/2"=1"
 SHEET 3 OF 6



1/4" ULTRACON WITH 1 1/4" MIN. EMBEDMENT INTO CONCRETE THROUGH 1" BY WOOD BUCK (FOR NUMBER OF ANCHORS AND MAX. SPACING REFER TO DESIGN PRESSURES CHART AND ELEVATION ON SHEET 1 OF 6)

1" BY WOOD BUCK WOOD BUCKS BY OTHERS MUST BE PROPERLY SEALED AND ANCHORED TO TRANSFER LOADS TO THE STRUCTURE . SHOULD BE APPROVED BY BUILDING OFFICIAL PRIOR TO WINDOW INSTALLATION,

ATTACHMENT TO CONCRETE

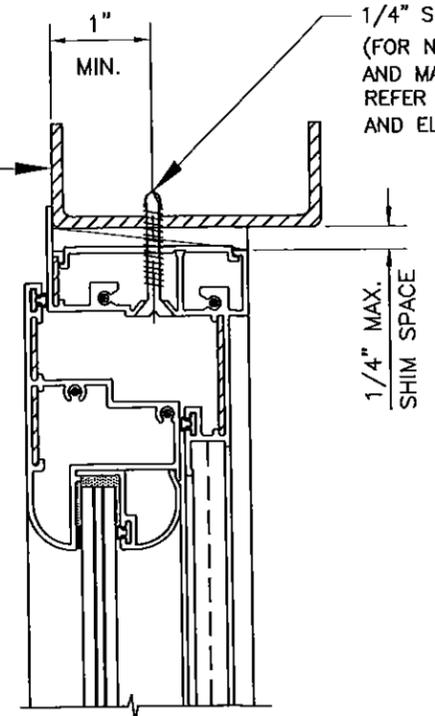


1/4" ULTRACON WITH 1 1/2" MIN. PENETRATION INTO WOOD. (FOR NUMBER OF ANCHORS AND MAX. SPACING REFER TO DESIGN PRESSURES CHART AND ELEVATION ON SHEET 1 OF 6)

2" BY WOOD BUCK WOOD BUCKS BY OTHERS MUST BE PROPERLY SEALED AND ANCHORED TO TRANSFER LOADS TO THE STRUCTURE . SHOULD BE APPROVED BY BUILDING OFFICIAL PRIOR TO WINDOW INSTALLATION.

ATTACHMENT TO WOOD

METAL STRUCTURAL MEMBER BY OTHERS (SHALL WITHSTAND ANCHOR SHEAR FORCES) MINIMUM THICKNESS = 1/8"



ATTACHMENT TO METAL STRUCTURE DETAIL

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

TYPICAL SECTIONS AT HEAD

PRODUCT REVISED as complying with the Florida Building Code Acceptance No. 15-0120.03 Expiration Date 06/17/2019 By *[Signature]* Miami Dade Product Control

[Signature]
12-22-14

FRANCISCO HERNANDEZ
FLORIDA PE # 51393

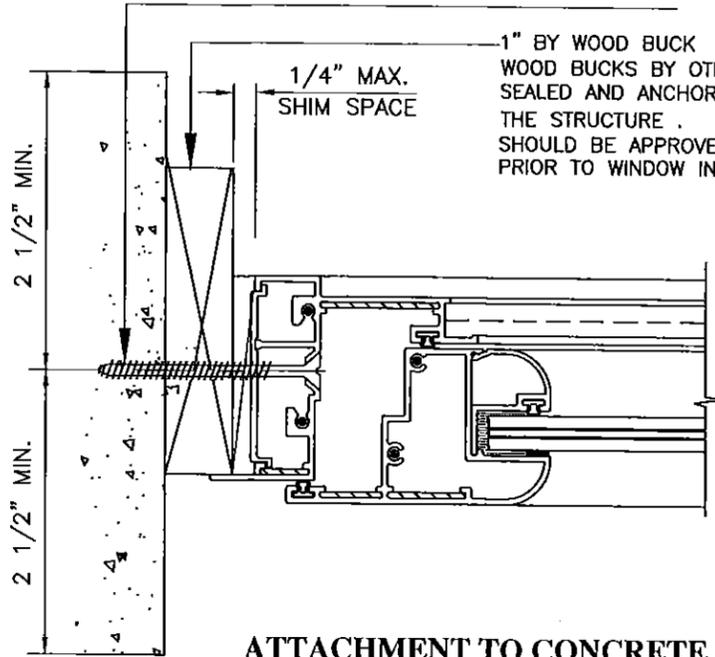
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**SERIES 2009 OUT-SWINGING
ALUMINUM CASEMENT WINDOW
IMPACT RESISTANT GLASS**

NO	DATE	REVISION
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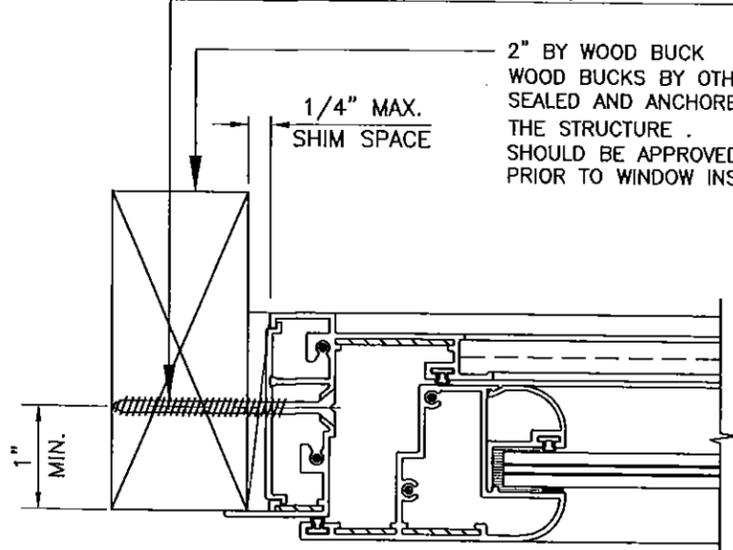
DRAWING No. SGD09
DATE: 12-03-08
SCALE: 1/2"=1"
SHEET 4 OF 6

1/4" ULTRACON BY ELCO WITH 1 1/4" MIN. EMBEDMENT INTO CONCRETE THROUGH 1" BY WOOD BUCK (FOR NUMBER OF ANCHORS AND MAX. SPACING REFER TO DESIGN PRESSURES CHART AND ELEVATION ON SHEET 1 OF 6)



ATTACHMENT TO CONCRETE

1/4" ULTRACON BY ELCO WITH 1 1/2" MIN. PENETRATION INTO WOOD. (FOR NUMBER OF ANCHORS AND MAX. SPACING REFER TO DESIGN PRESSURES CHART AND ELEVATION ON SHEET 1 OF 6)

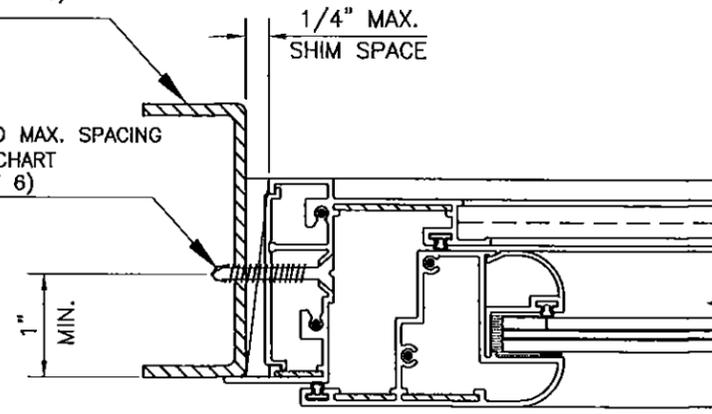


ATTACHMENT TO WOOD

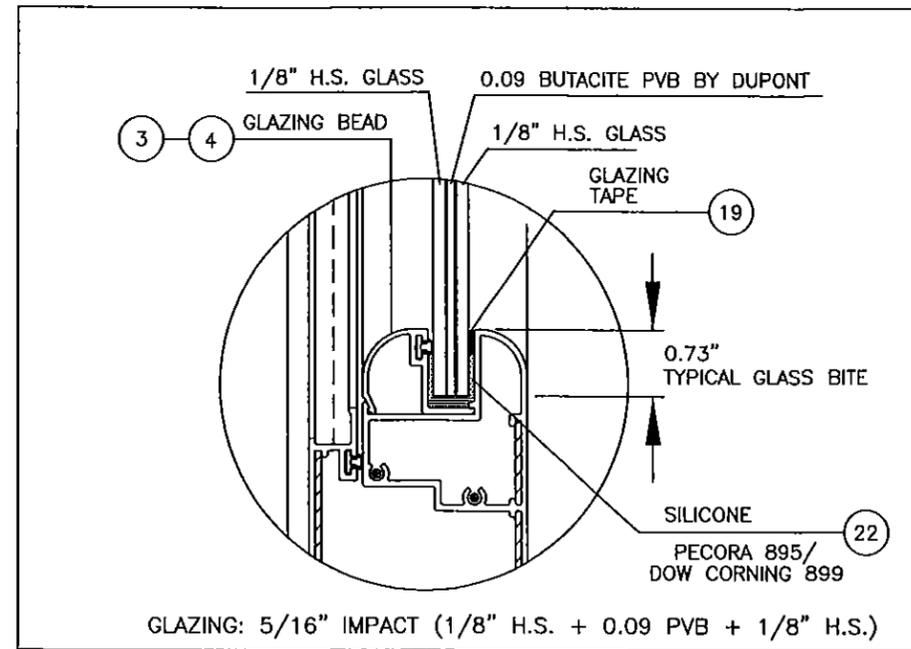
METAL STRUCTURAL MEMBER BY OTHERS (SHALL WITHSTAND ANCHOR SHEAR FORCES)

MINIMUM THICKNESS = 1/8"

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

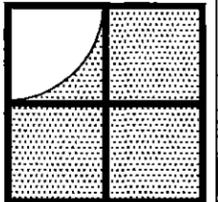


ATTACHMENT TO METAL STRUCTURE



GLAZING DETAIL

TYPICAL SECTIONS AT JAMBS



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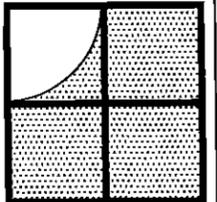
SERIES 2009 OUT-SWINGING ALUMINUM CASEMENT WINDOW IMPACT RESISTANT GLASS

No	DATE	REVISION
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DRAWING No. SGD09
DATE: 12-03-08
SCALE: 1/2"=1"
SHEET 5 OF 6

PRODUCT REVISED as complying with the Florida Building Code Acceptance No. 15-0120.03 Expiration Date 06/17/2019 By Francisco Hernandez Miami Dade Product Control

Francisco Hernandez
12-22-14
FRANCISCO HERNANDEZ
FLORIDA PE # 51393

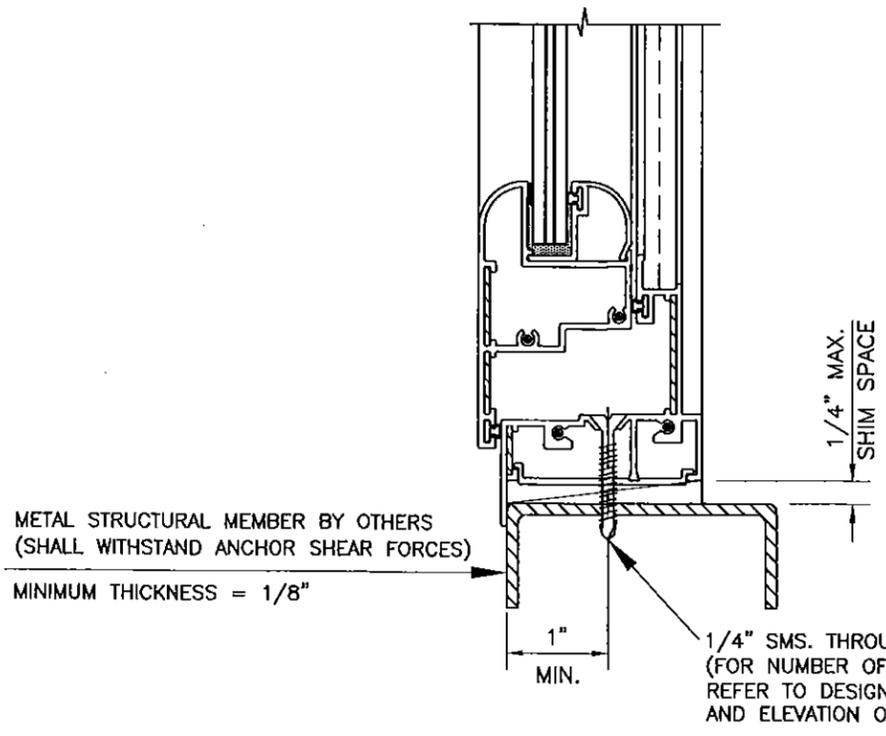


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SERIES 2009 OUT-SWINGING ALUMINUM CASEMENT WINDOW IMPACT RESISTANT GLASS

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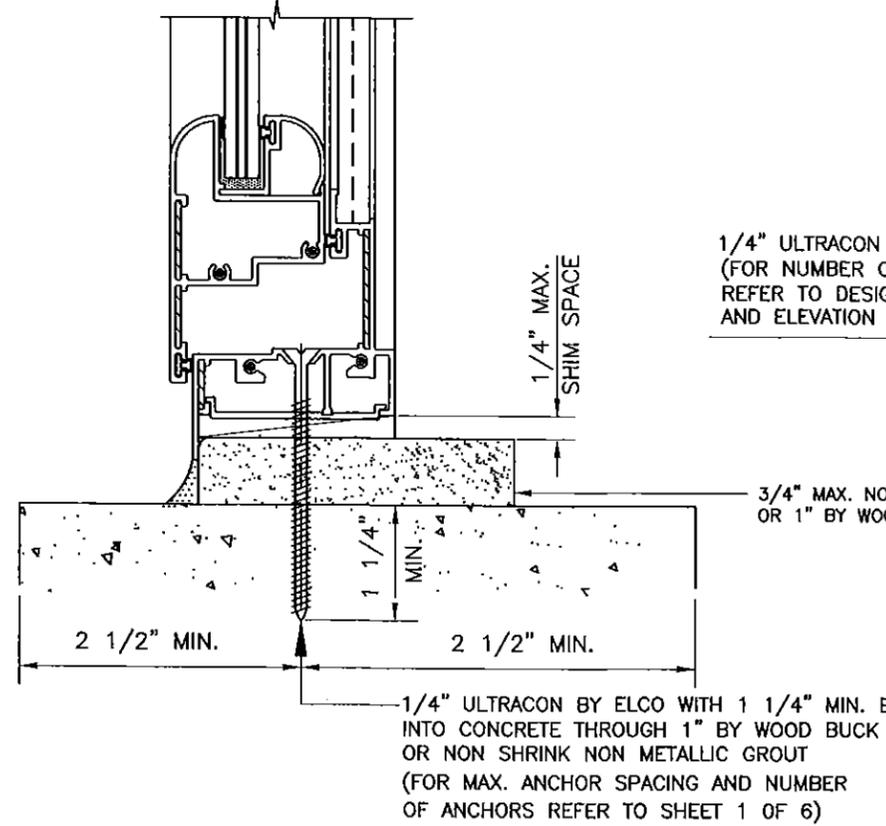
DRAWING No. SGD09
 DATE: 12-03-08
 SCALE: 1/2"=1"
 SHEET 6 OF 6



METAL STRUCTURAL MEMBER BY OTHERS (SHALL WITHSTAND ANCHOR SHEAR FORCES)
 MINIMUM THICKNESS = 1/8"

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

ATTACHMENT TO METAL STRUCTURE

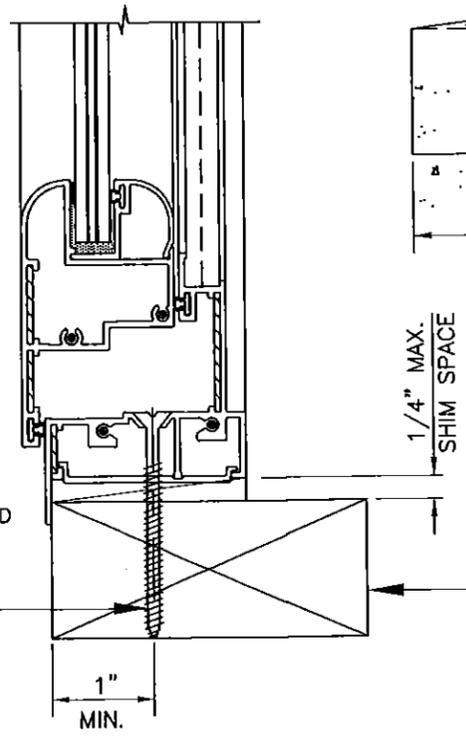


1/4" ULTRACON 1 1/2 MIN. PENETRATION INTO WOOD (FOR NUMBER OF ANCHORS AND MAX. SPACING REFER TO DESIGN PRESSURES CHART AND ELEVATION ON SHEET 1 OF 6)

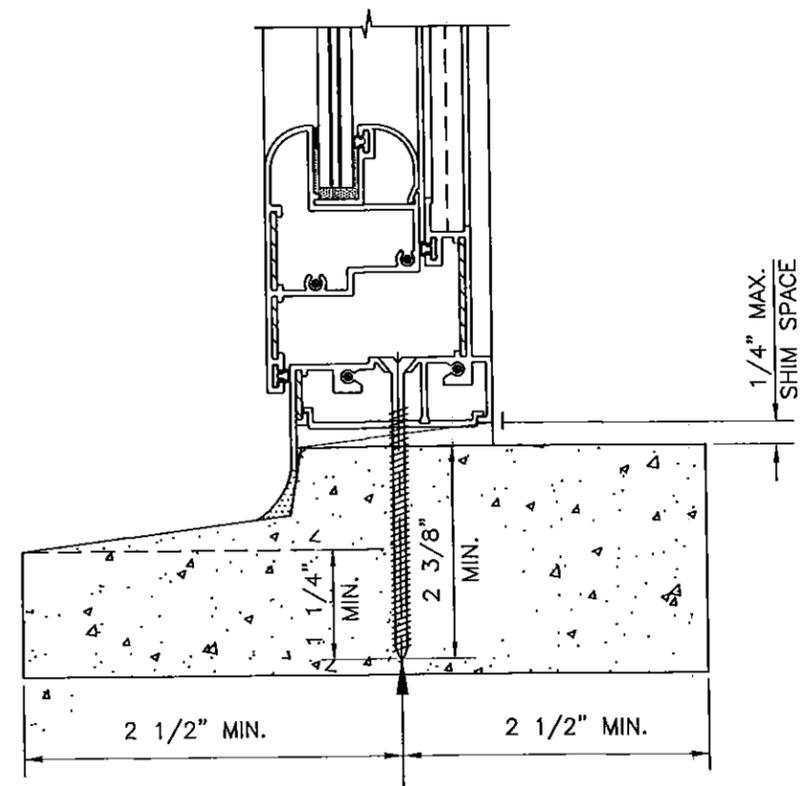
3/4" MAX. NON-SHRINK GROUT OR 1" BY WOOD BUCK

1/4" ULTRACON BY ELCO WITH 1 1/4" MIN. EMBEDMENT INTO CONCRETE 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)

ATTACHMENT TO CONCRETE



ATTACHMENT TO WOOD



1/4" ULTRACON WITH 1 1/4" MIN. EMBEDMENT INTO CONCRETE (FOR NUMBER OF ANCHORS AND MAX. SPACING REFER TO DESIGN PRESSURES CHART AND ELEVATION ON SHEET 1 OF 6)

ATTACHMENT TO PRE-CAST SILL

2" BY WOOD BUCK WOOD BUCKS BY OTHERS MUST BE PROPERLY SEALED AND ANCHORED TO TRANSFER LOADS TO THE STRUCTURE. SHOULD BE APPROVED BY BUILDING OFFICIAL PRIOR TO WINDOW INSTALLATION.

PRODUCT REVISED as complying with the Florida Building Code
 Acceptance No. 15-0120.03
 Expiration Date 06/17/2019
 By Francisco Hernandez
 Miami Dade Product Control

12-22-14
 FRANCISCO HERNANDEZ
 FLORIDA PE # 51393

TYPICAL SECTIONS AT SILL