



MIAMI-DADE COUNTY
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) 372-6339

NOTICE OF ACCEPTANCE (NOA)

www.miamidade.gov/buildingcode

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 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 1 through 6 of 6, dated 12/03/08, with revision dated 05/07/09, 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 page E-1, as well as approval document mentioned above. The submitted documentation was reviewed by **Manuel Perez, P.E.**



NOA No. 08-1224.10
Expiration Date: June 17, 2014
Approval Date: June 17, 2009
Page 1

Sunshine Windows Manufacturing, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **CS09-01**, titled "Series 2009 Out-Swinging Aluminum Casement Window – Impact Resistant Glass", sheets 1 through 6 of 6, dated 12/03/09, with revision dated 05/07/09, 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 an outswing aluminum casement window, glazed with 5/16" overall HS laminated glass, prepared by Fenestration Testing Laboratory, Inc. Test Report No. **FTL-5560**, dated 09/04/08, signed and sealed by Carlos S. Rionda, P.E.

C. CALCULATIONS

1. Anchor verification calculations, structural and comparative analysis, complying with FBC-2004, prepared by Francisco Hernandez Structural, P.E. Engineering, dated 12/08/08 and 05/07/09, 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

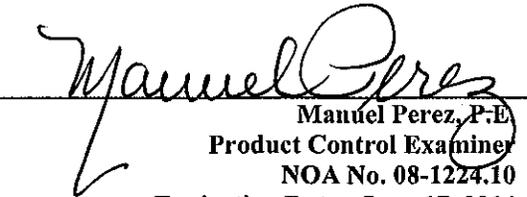
1. Notice of Acceptance No. **05-1208.02** issued to **E.I. DuPont DeNemours & Co., Inc.** for their "**DuPont Butacite PVB Interlayer**" dated 01/05/06, expiring on 12/11/10.

F. STATEMENTS

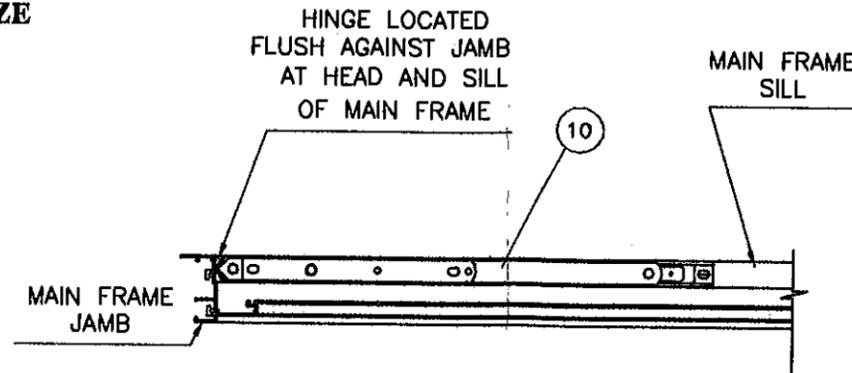
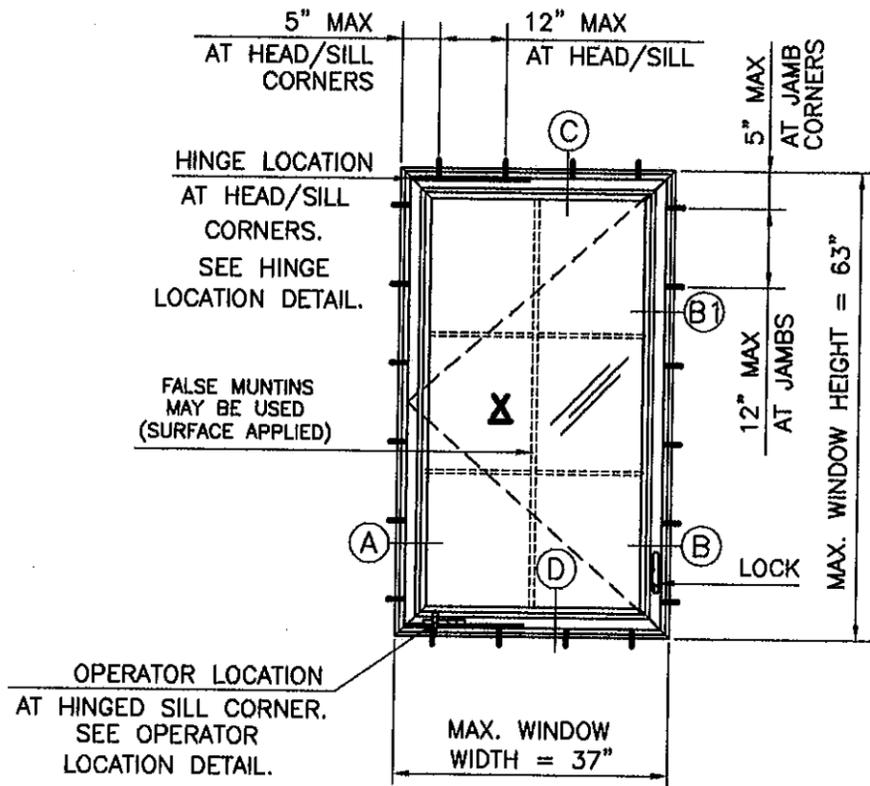
1. Statement letter of conformance, dated December 8, 2008, signed and sealed by Francisco Hernandez, P.E.
2. Statement letter of no financial interest, dated December 8, 2008, signed and sealed by Francisco Hernandez, P.E.
3. Laboratory compliance letter for Test Report No. **FTL-5560**, issued by Fenestration Testing Laboratory, Inc., dated May 12, 2009, signed and sealed by Michael Wenzel, P.E.

G. OTHER

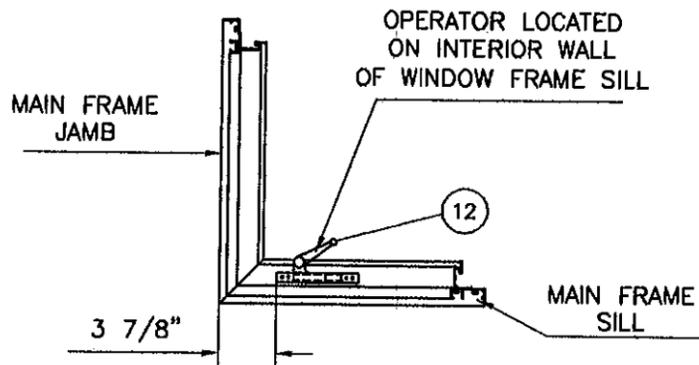
1. None.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 08-1224.10
Expiration Date: June 17, 2014
Approval Date: June 17, 2009

FOR NUMBER OF ANCHORS FOR EACH UNIT SIZE
REFER TO DESIGN PRESSURE CHART



HINGE LOCATION DETAIL



OPERATOR LOCATION DETAIL

SERIES 2009 OUT-SWINGING ALUMINUM CASEMENT WINDOW						
DESIGN PRESSURE CHART - PSF						
IMPACT RESISTANT GLASS						
WINDOW DIMENSION	ANCHORS		5/16" IMPACT GLASS			
	WIDTH	HEIGHT	PER HEAD & SILL	PER JAMB	EXT. INT.	
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
STANDARD SIZES	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
STANDARD SIZES	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
STANDARD 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
MODULAR SIZES	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	
MODULAR SIZES	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	

SINGLE VENT CASEMENT WINDOW

GENERAL NOTES: IMPACT CASEMENT WINDOW.

- 1.- HINGE LEFT OR HINGE RIGHT CONFIGURATION.
- 2.- FOR NUMBER OF ANCHORS FOR EACH UNIT SIZE REFER TO DESIGN PRESSURE CHART
- 3.- REFERENCES: TEST REPORT FTL-5560.
- 4.- THIS PRODUCT MEETS THE REQUIREMENTS OF THE 2004 FLORIDA BUILDING CODE
- 5.- FASTENERS MUST BE MADE OF STAINLESS STEEL OR HAVE ADEQUATE PROTECTION AGAINST CORROSION, PER DIN 50018. ALUMINUM CONTACTING METALS SHALL BE PROPERLY PROTECTED.

Approved as complying with the
Florida Building Code
Date: JUNE 17, 2009
NOA# 08-1224-10
Miami-Dade Product Control
Division
By: *Francisco Hernandez*

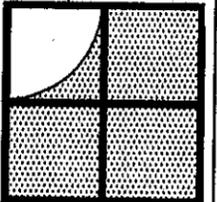
Francisco Hernandez
5-15-09

FRANCISCO HERNANDEZ
FLORIDA PE # 51393

Drawn By: NM
Date: 12-03-08
Scale: NTS
Revision: 05-07-09
Revision:

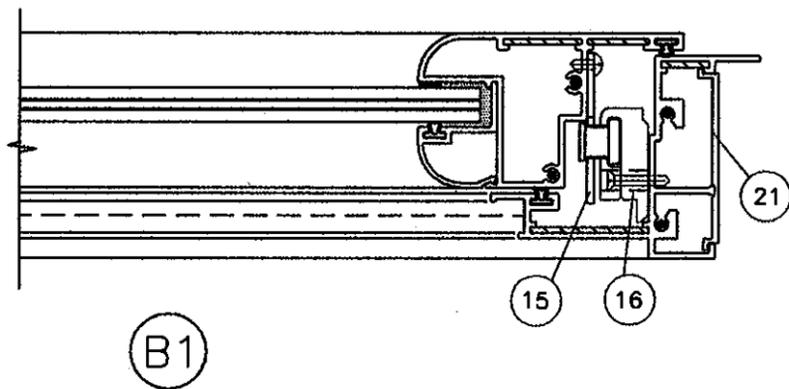
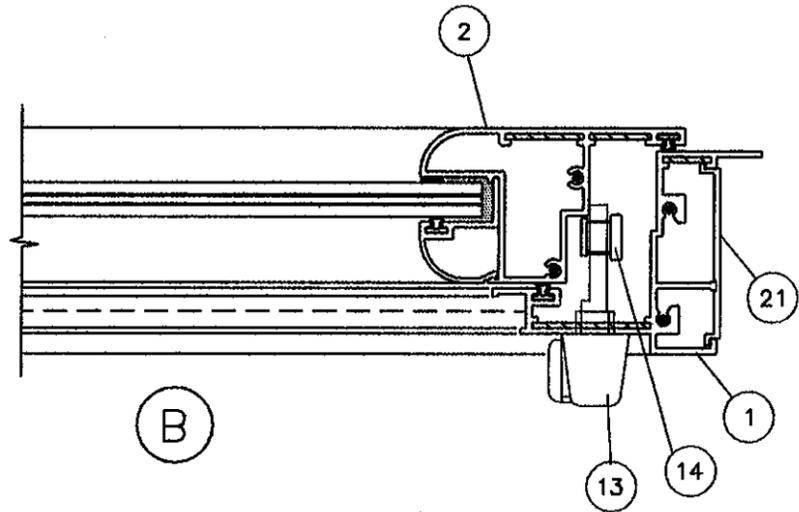
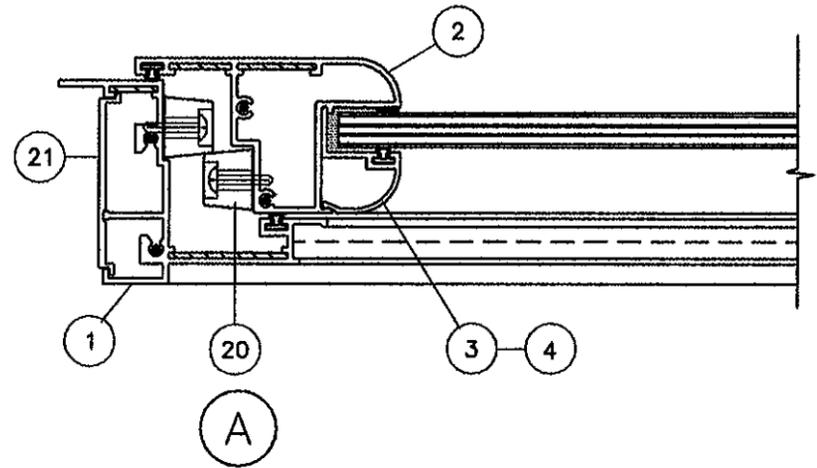
DRAWING NO.
CS09-01

SHEET
1 OF 6



Sunshine Windows
Manufacturing, Inc.
1745 W. 33rd Place
Hialeah, Florida 33012
Ph: (305)384-9952
Fax: (305)828-5118

SERIES 2009 OUT-SWINGING
ALUMINUM CASEMENT WINDOW
IMPACT RESISTANT GLASS

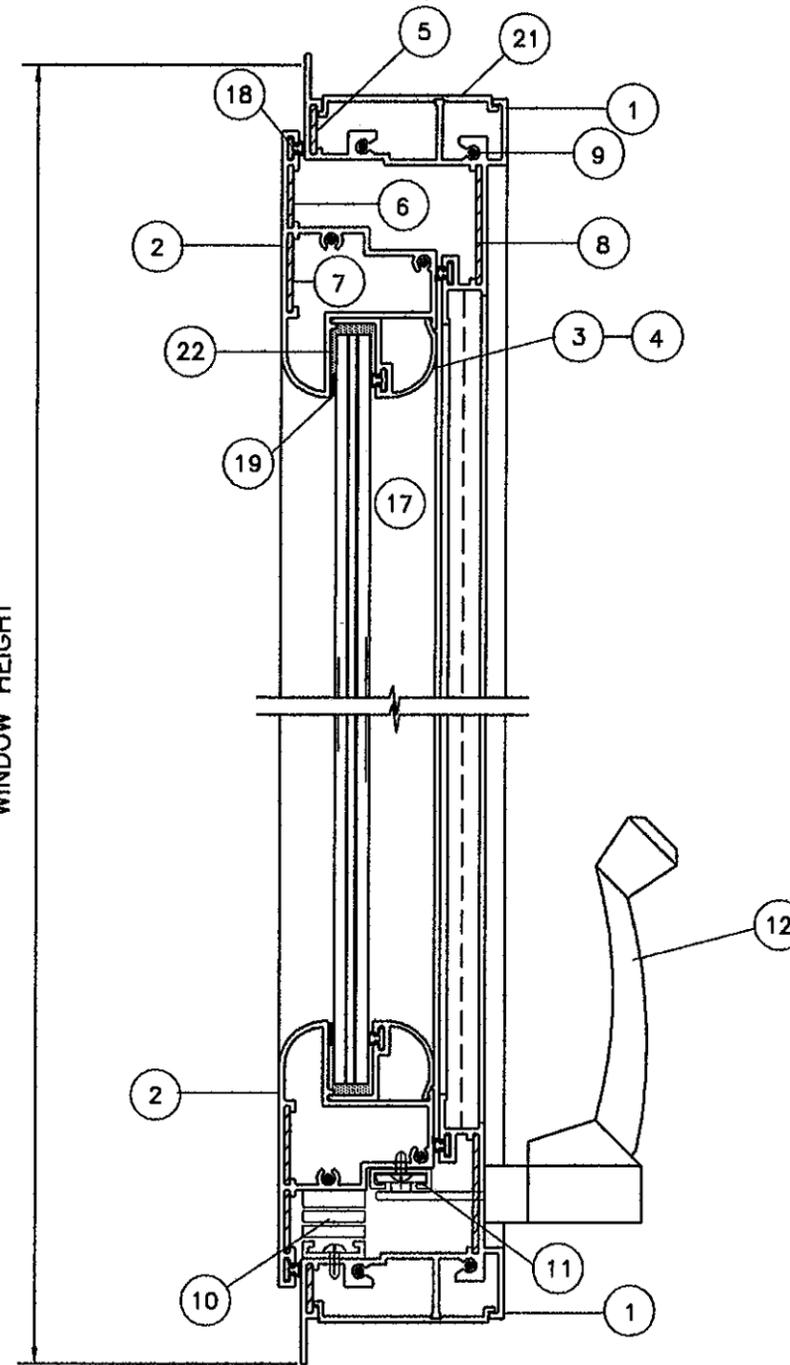


HORIZONTAL SECTIONS

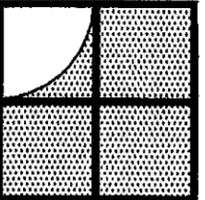
(C)

WINDOW HEIGHT

(D)



VERTICAL SECTION



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

Approved as complying with the
Florida Building Code
Date: JUNE 17, 2009
NOAH 08-1224-10
Miami Dade Product Control
Division
By: *Francisco Hernandez*

FHJ
5-15-09

FRANCISCO HERNANDEZ
FLORIDA PE # 51393

Drawn By: NM
Date: 12-03-08
Scale: 1/2" = 1"
Revision: 05-07-09
Revision:

DRAWING NO.
CS09-01

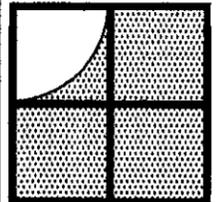
SHEET
2 OF 6

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

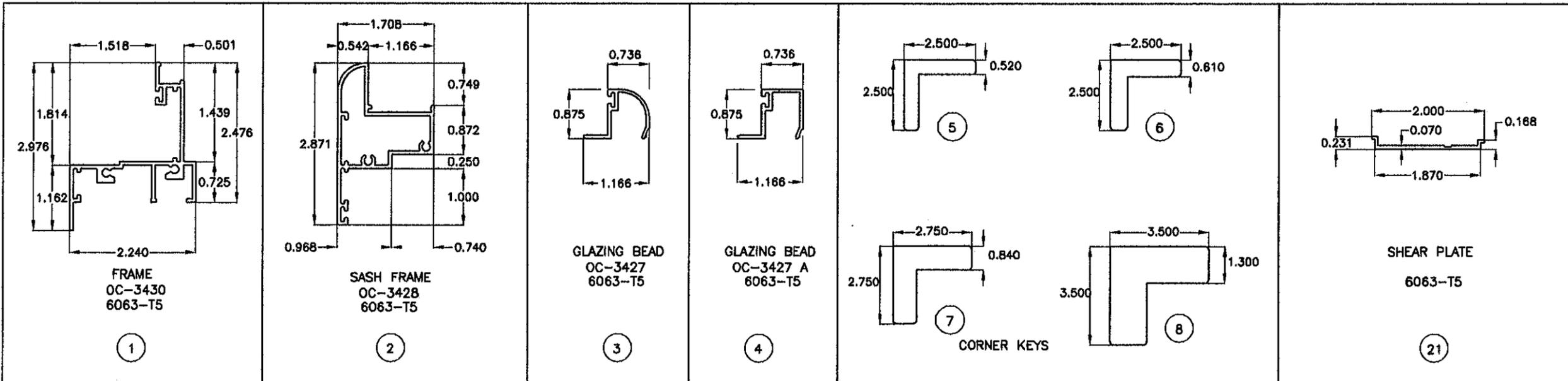
MATERIAL LIST

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**



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 NOAH 08-1224.10
 Miami Dade Product Control
 Division
 By: Manuel Perez

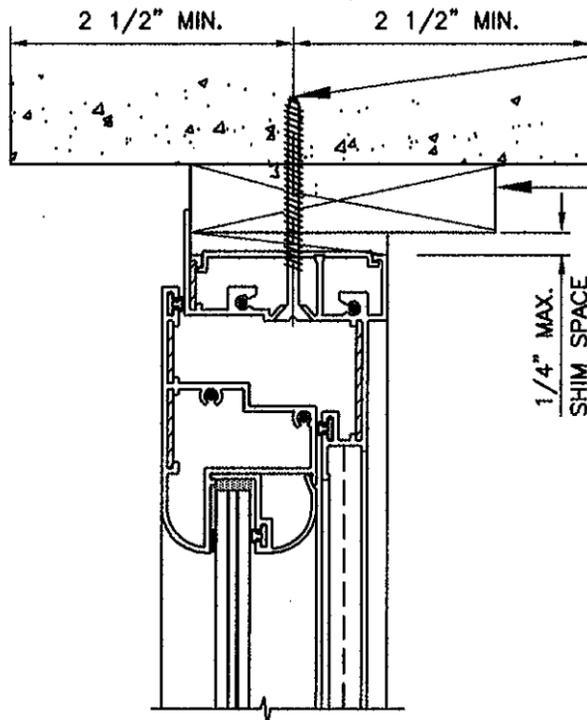
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 5-15-09

FRANCISCO HERNANDEZ
 FLORIDA PE # 51393

Drawn By: NM
 Date: 12-03-08
 Scale: 1/2" = 1"
 Revision: 05-07-09
 Revision:

DRAWING NO.
CS09-01

SHEET
3 OF 6

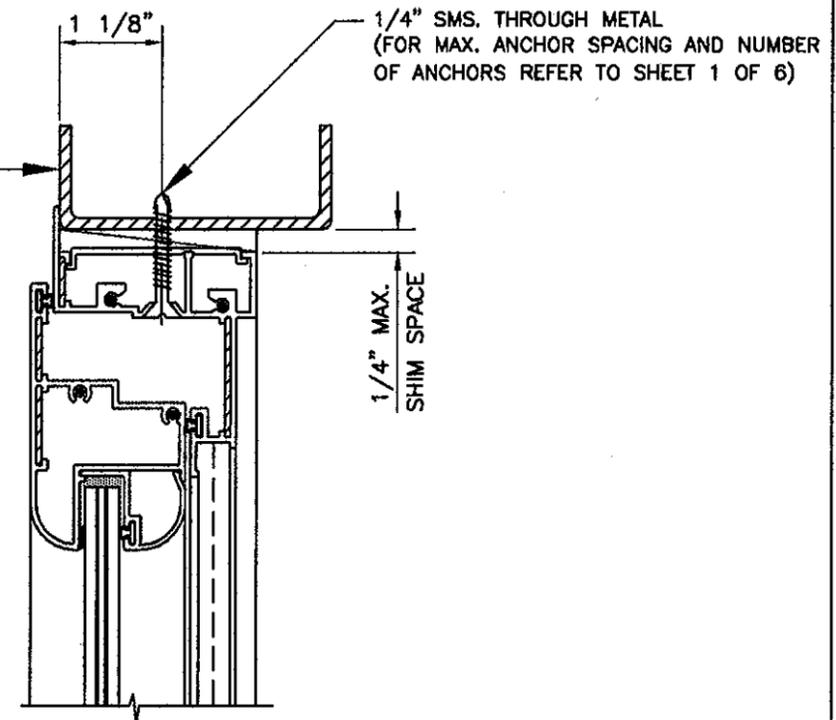


ATTACHMENT TO MASONRY

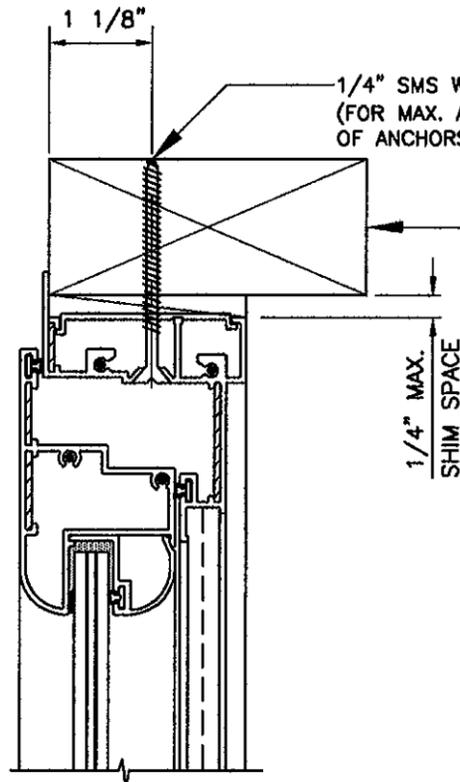
1/4" TAPCONS WITH 1 1/4" MIN. EMBEDMENT INTO MASONRY THROUGH 1" BY WOOD BUCK (FOR MAX. ANCHOR SPACING AND NUMBER OF ANCHORS REFER SHEET 1 OF 6)

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,

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



ATTACHMENT TO METAL STRUCTURE DETAIL

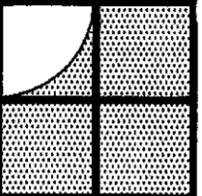


ATTACHMENT TO WOOD

1/4" SMS WITH 1 1/2" MIN. PENETRATION INTO WOOD. (FOR MAX. ANCHOR SPACING AND NUMBER OF ANCHORS REFER TO 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,

TYPICAL SECTIONS AT HEAD



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

Approved as complying with the Florida Building Code
Date: JUNE 17, 2009
NOAH 08-1224-10
Miami Dade Product Control Division
By: Manuel Perez

FHS
5-15-09

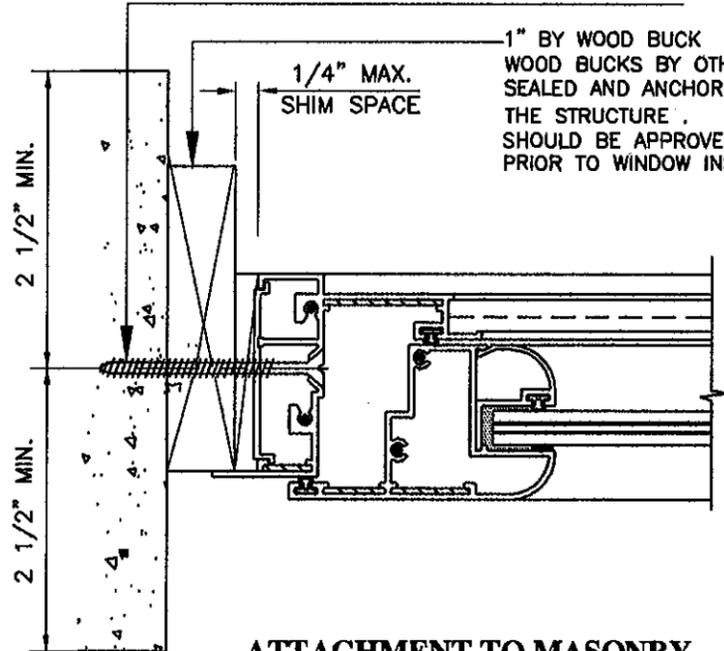
FRANCISCO HERNANDEZ
FLORIDA PE # 51393

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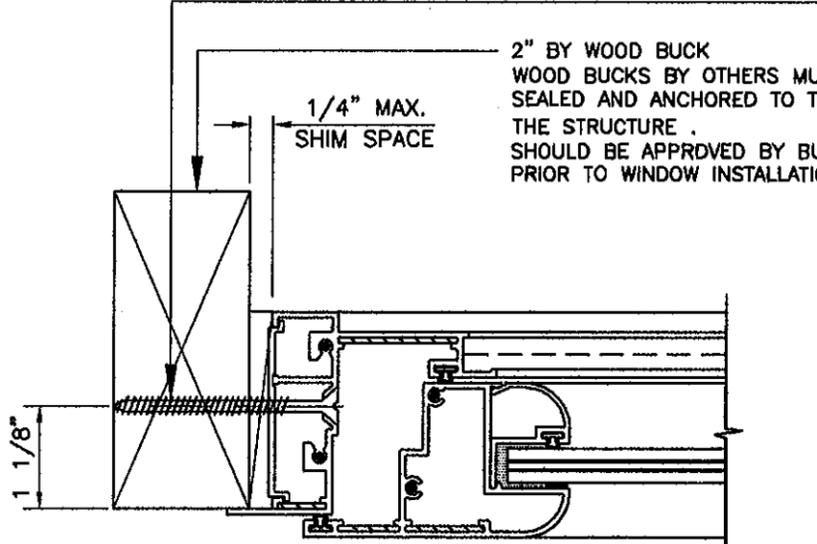
SHEET
4 OF 6

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



ATTACHMENT TO MASONRY

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



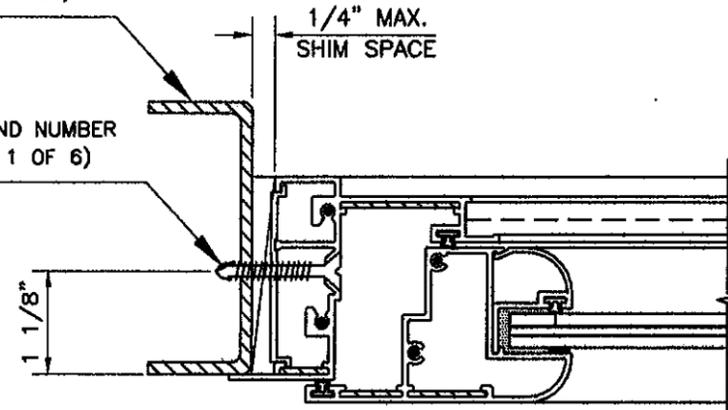
ATTACHMENT TO WOOD

TYPICAL SECTIONS AT JAMBS

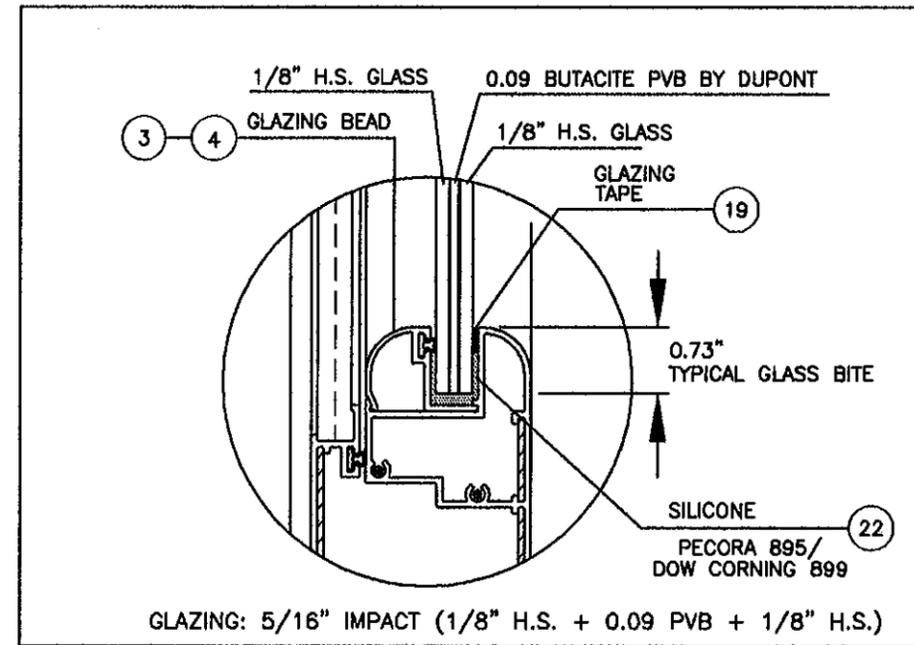
METAL STRUCTURAL MEMBER BY OTHERS (SHALL WITHSTAND ANCHOR SHEAR FORCES)

MINIMUM THICKNESS = 1/8"

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



ATTACHMENT TO METAL STRUCTURE



GLAZING: 5/16" IMPACT (1/8" H.S. + 0.09 PVB + 1/8" H.S.)

GLAZING DETAIL

Approved as complying with the Florida Building Code
 Date JUNE 17, 2009
 NOAR 05-1224-10
 Miami-Dade Product Control Division
 By Manuel Perez

[Signature]
 5-15-09

FRANCISCO HERNANDEZ
 FLORIDA PE # 51393

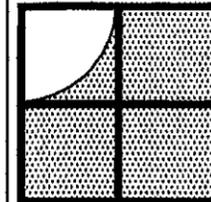
Sunshine Windows Manufacturing, Inc.
 1745 W. 33rd Place
 Hialeah, Florida 33012
 Ph: (305)364-9952
 Fax: (305)828-5118

SERIES 2009 OUT-SWINGING ALUMINUM CASEMENT WINDOW IMPACT RESISTANT GLASS

Drawn By: NM
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 Scale: 1/2" = 1"
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 Revision:

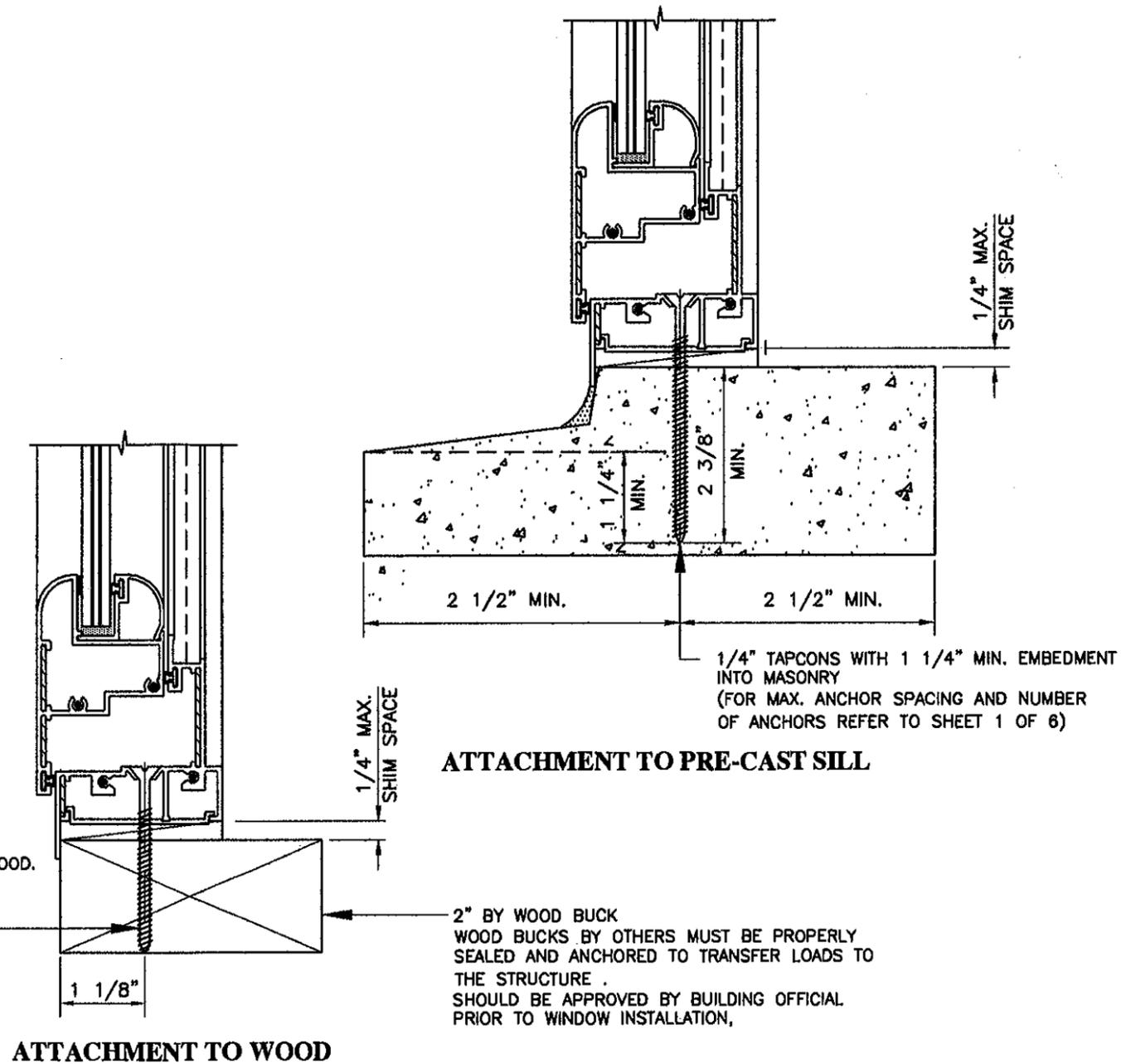
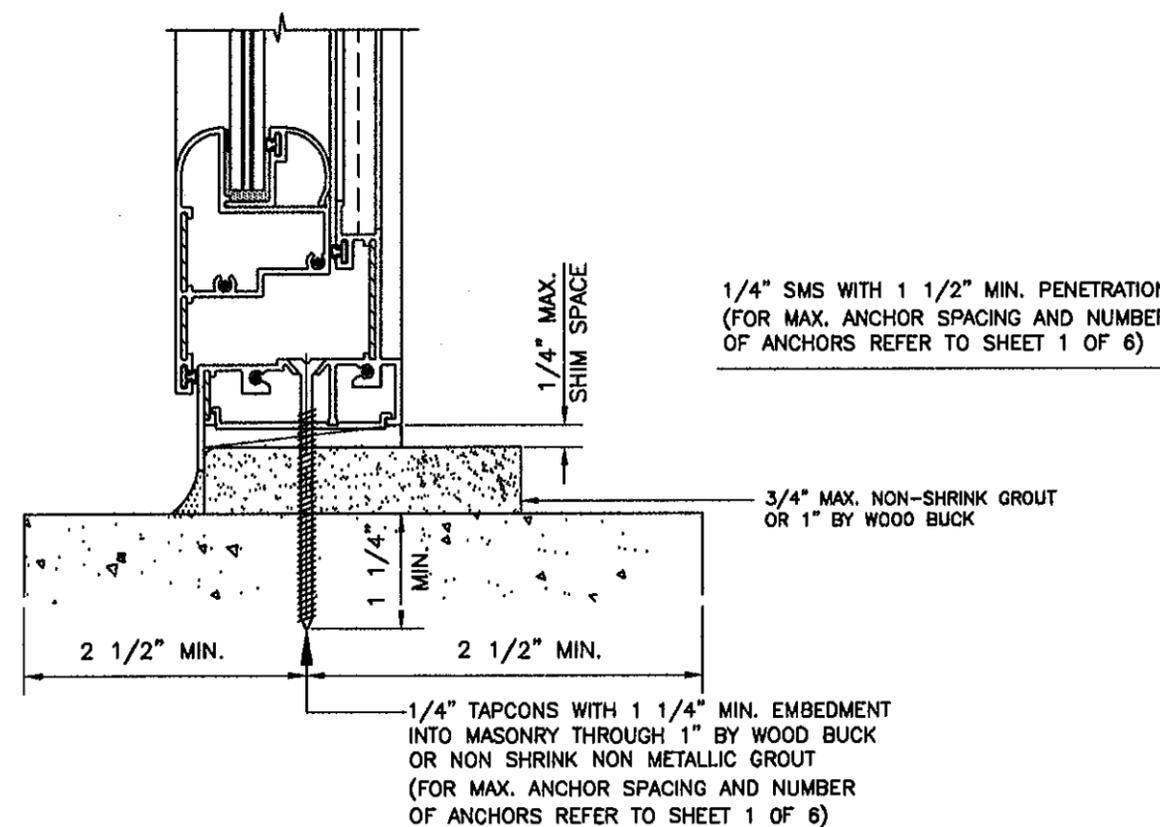
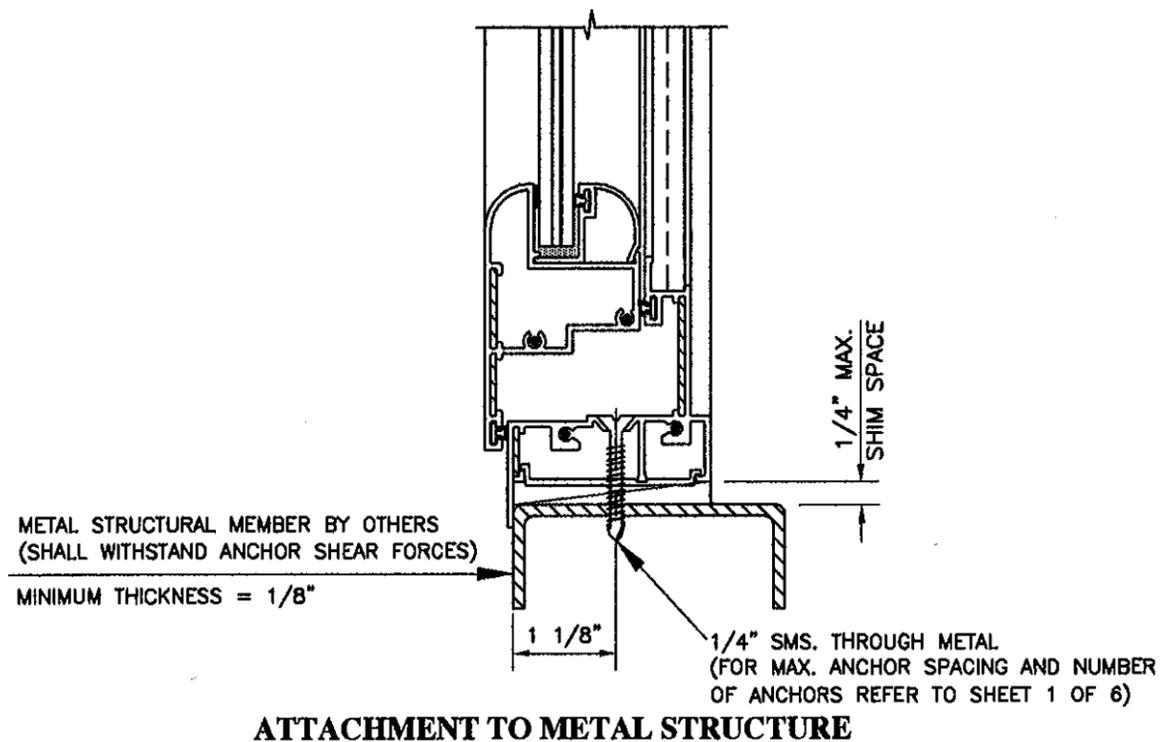
DRAWING NO.
CS09-01

SHEET
5 OF 6



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



ATTACHMENT TO MASONRY

TYPICAL SECTIONS AT SILL

Approved as complying with the
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Miami Dade Product Control
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By Manuel Perez

Francisco Hernandez
5-15-09

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SHEET
6 OF 6