



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 last revision dated 03/19/10, 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 NOA # 08-1224.10 and consists of this page 1 and evidence page E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by **Carlos M. Utrera, P.E.**



[Handwritten Signature]
 04/28/10

NOA No. 10-0407.01
Expiration Date: June 17, 2014
Approval Date: May 19, 2010
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 last revision dated 03/19/10, prepared by manufacturer, signed and sealed by Francisco Hernandez, P.E.

B. TESTS "Submitted under NOA # 08-1224.10"

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 202-94

along 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 "Submitted under NOA # 08-1224.10"

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

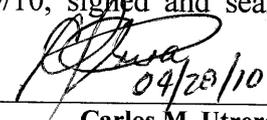
1. Miami Dade Building Code Compliance Office (BCCO)

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 "Submitted under NOA # 08-1224.10"

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.
4. Statement letter of 2007 FBC conformance, dated 03/19/10, signed and sealed by Francisco Hernandez, P.E.


04/28/10

Carlos M. Utrera, P.E.

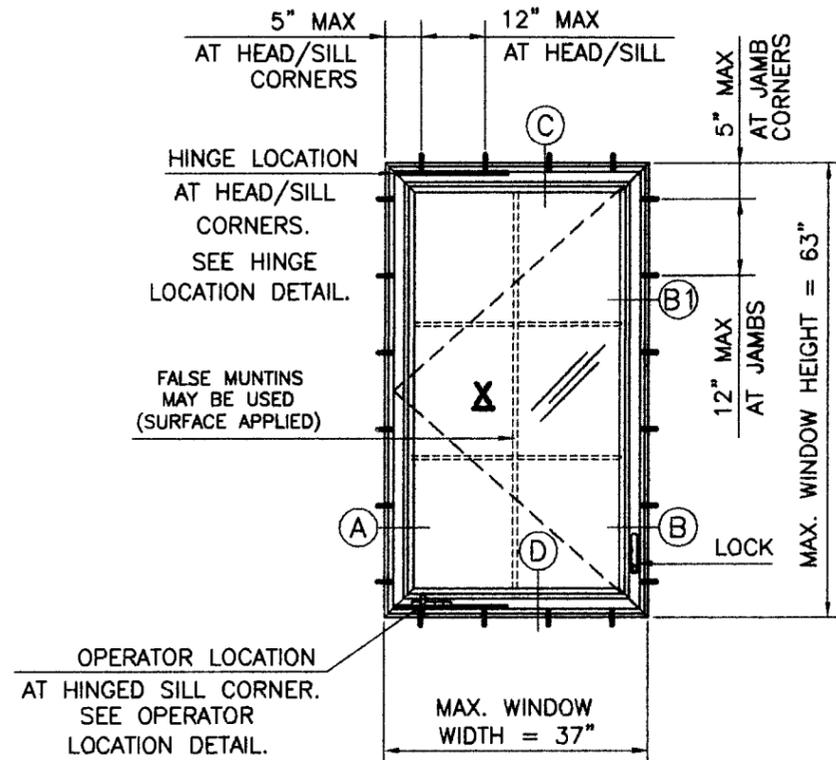
Product Control Examiner

NOA No. 10-0407.01

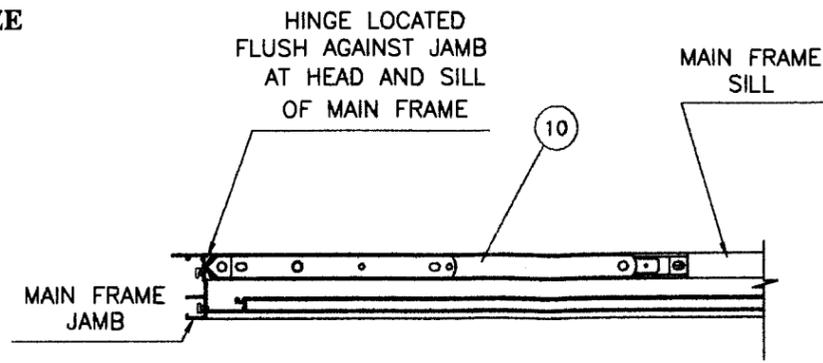
Expiration Date: June 17, 2014

Approval Date: May 19, 2010

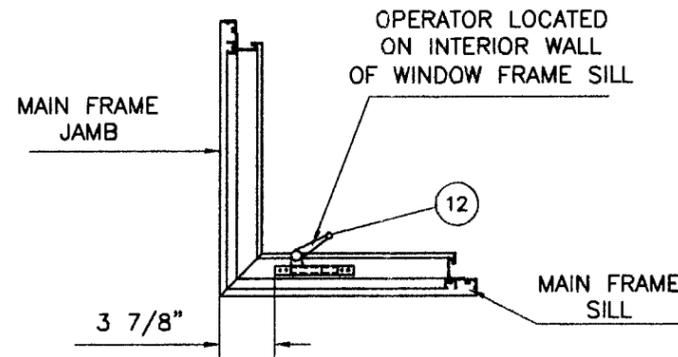
FOR NUMBER OF ANCHORS FOR EACH UNIT SIZE
REFER TO DESIGN PRESSURE CHART



SINGLE VENT CASEMENT WINDOW



HINGE LOCATION DETAIL



OPERATOR LOCATION DETAIL

| SERIES 2010 OUT-SWINGING ALUMINUM CASEMENT WINDOW | | | | | | |
|---|---------|-----------------|----------|--------------------|-------|-------|
| DESIGN PRESSURE CHART - PSF | | | | | | |
| IMPACT RESISTANT GLASS | | | | | | |
| WINDOW DIMENSION | | ANCHORS | | 5/16" IMPACT GLASS | | |
| | | 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 |
| | 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 | |

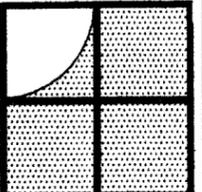
GENERAL NOTES: IMPACT CASEMENT WINDOW.

- 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 2007 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.

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 10-0907.01
Expiration Date 26/11/2014
By *[Signature]*
Miami Dade Product Control
Division

[Signature]
03-19-10

FRANCISCO HERNANDEZ
FLORIDA PE # 51393



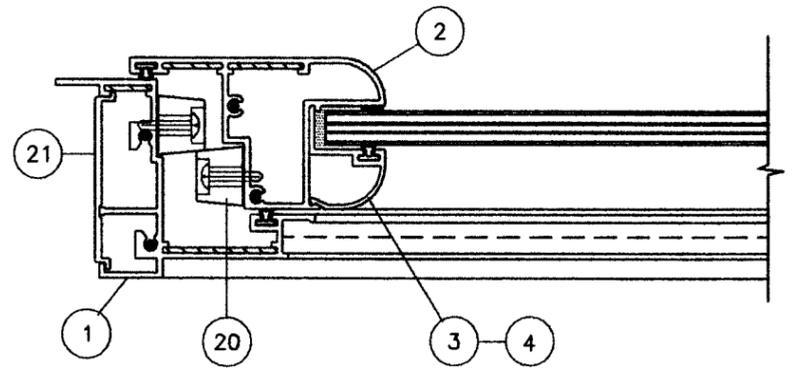
Sunshine Windows
Manufacturing, Inc.
1745 W. 33rd Place
Hialeah, Florida 33012
Ph: (305)364-9952
Fax:(305)828-5118

SERIES 2009 OUT-SWINGING
ALUMINUM CASEMENT WINDOW
IMPACT RESISTANT GLASS

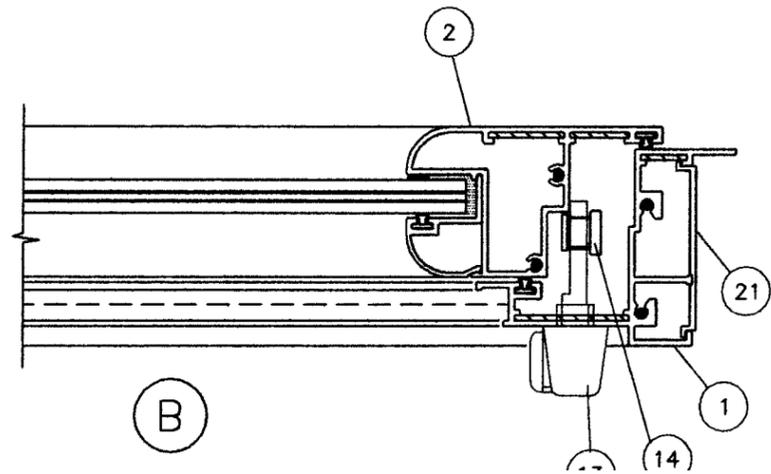
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Date: 12-03-08
Scale: NTS
Revision: 05-07-09
Revision: 03-19-10

DRAWING NO.
CS09-01

SHEET
1 OF 6

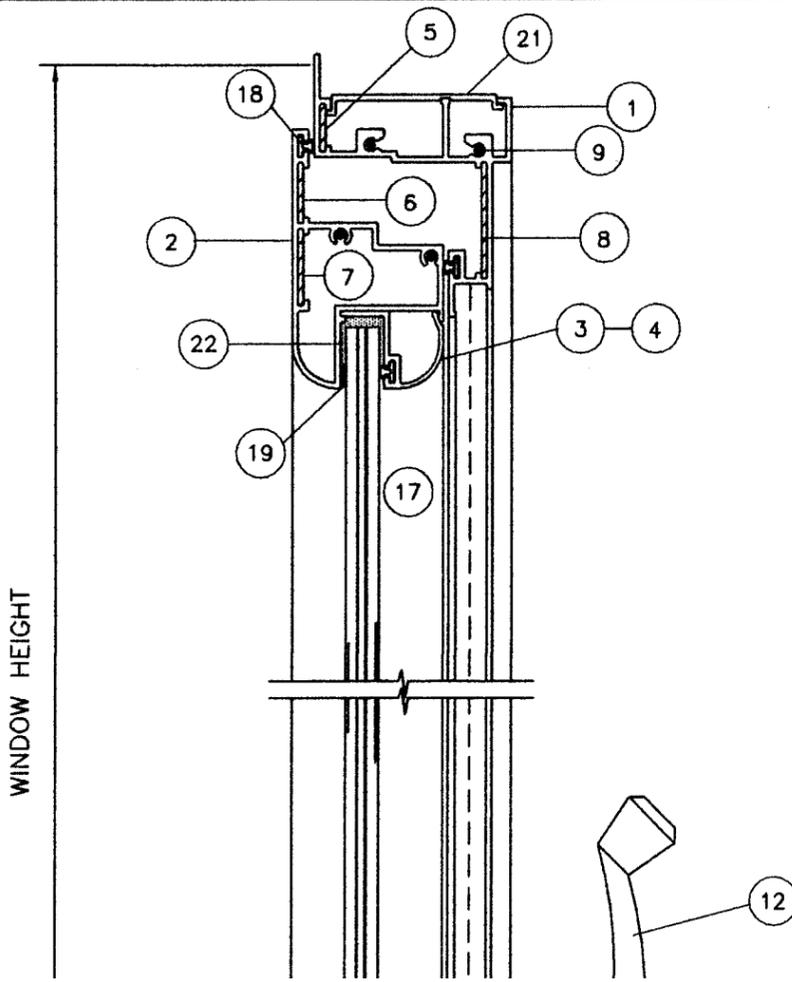


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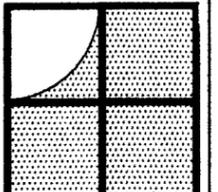


B

C



WINDOW HEIGHT



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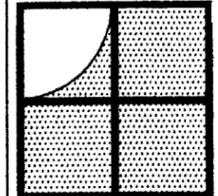
**309 OUT-SWINGING
CASEMENT WINDOW
RESISTANT GLASS**

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 |

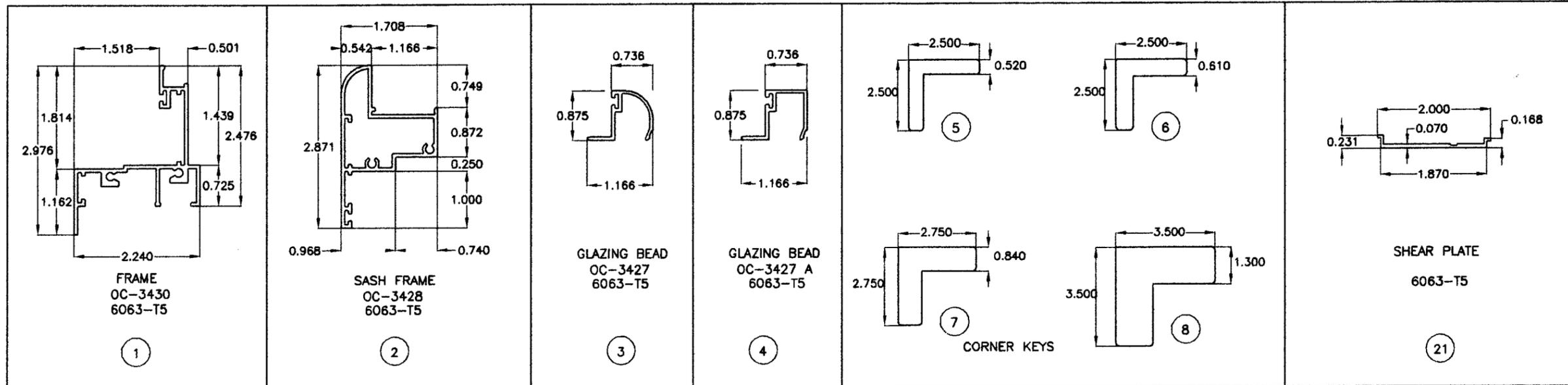
MATERIAL LIST

| 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**



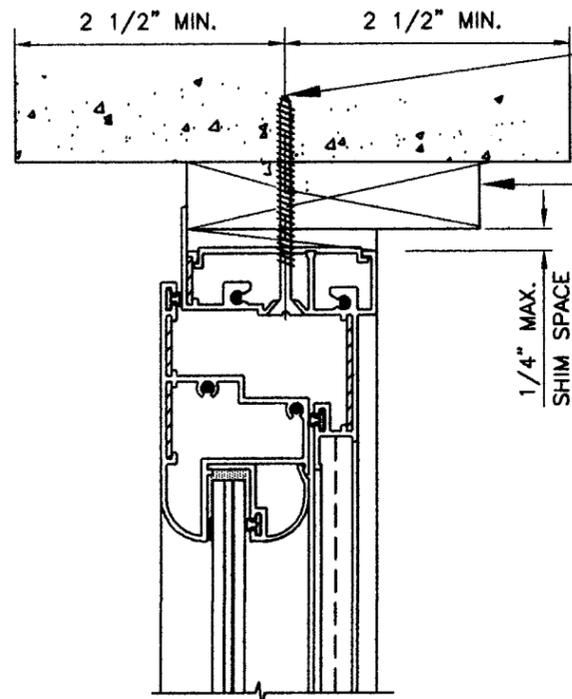
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 10-0907.01
Expiration Date 06/17/2014
By *[Signature]*
Miami Dade Product Control
Division

[Signature]
03-19-10

FRANCISCO HERNANDEZ
FLORIDA PE # 51393

Drawn by: NM
Date: 12-03-08
Scale: 1/2" = 1"
Revision: 05-07-09
Revision: 03-19-10

DRAWING NO.
CS09-01
SHEET
3 OF 6

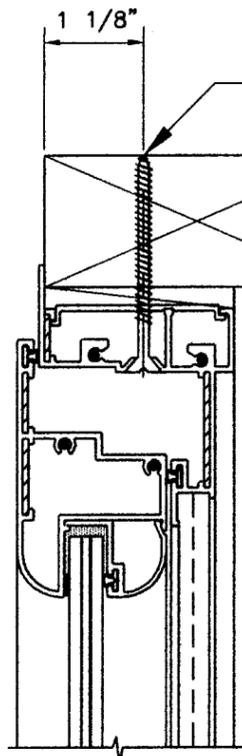


ATTACHMENT TO MASONRY

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,

1/4" MAX. SHIM SPACE



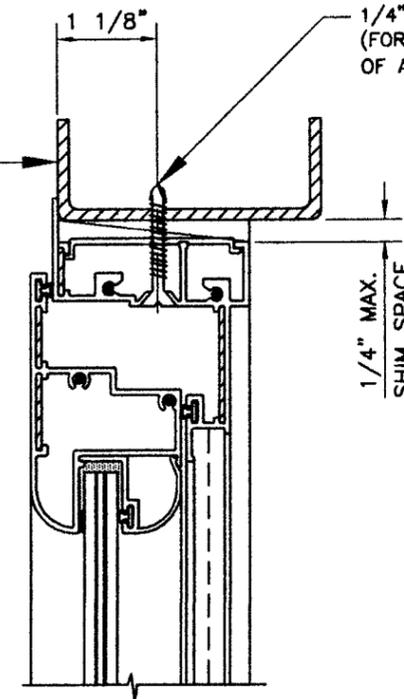
ATTACHMENT TO WOOD

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,

1/4" MAX. SHIM SPACE

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

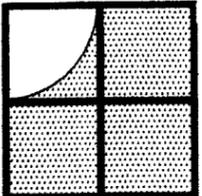


ATTACHMENT TO METAL STRUCTURE DETAIL

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

1/4" MAX. SHIM SPACE

TYPICAL SECTIONS AT HEAD



Sunshine Windows Manufacturing, Inc.
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SERIES 2009 OUT-SWINGING ALUMINUM CASEMENT WINDOW IMPACT RESISTANT GLASS

PRODUCT REVISED as complying with the Florida Building Code
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Expiration Date 06/17/2014
By *[Signature]*
Miami Dade Product Control Division

[Signature]
03-19-10

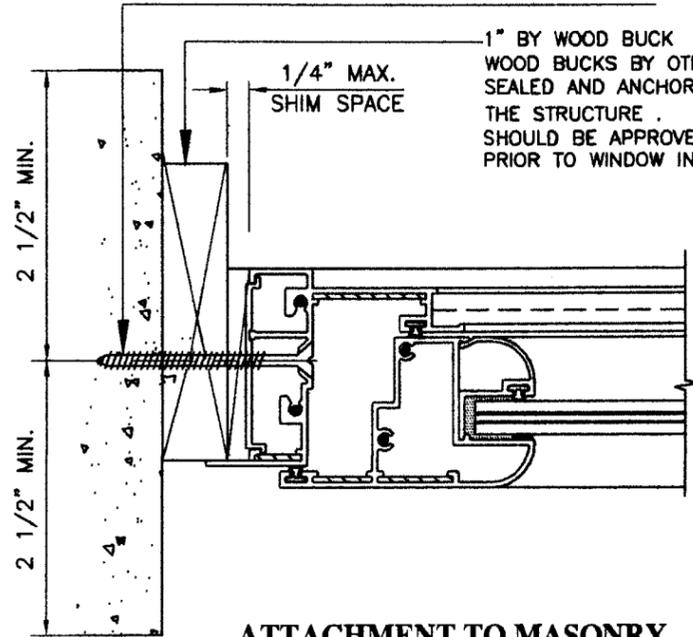
FRANCISCO HERNANDEZ
FLORIDA PE # 51393

Drawn by: NM
Date: 12-03-08
Scale: 1/2" = 1"
Revision: 05-07-09
Revision: 03-19-10

DRAWING NO.
CS09-01

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)

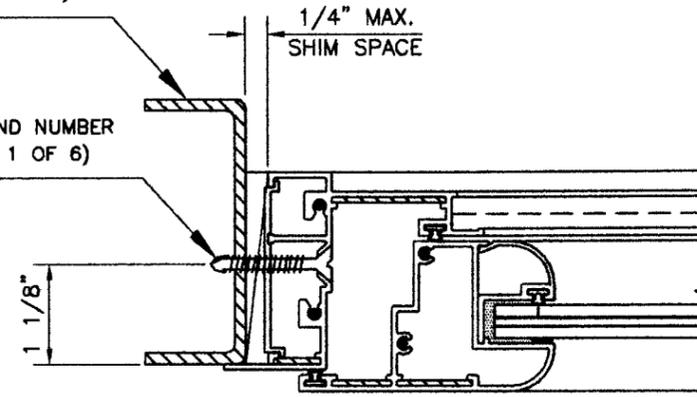


ATTACHMENT TO MASONRY

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

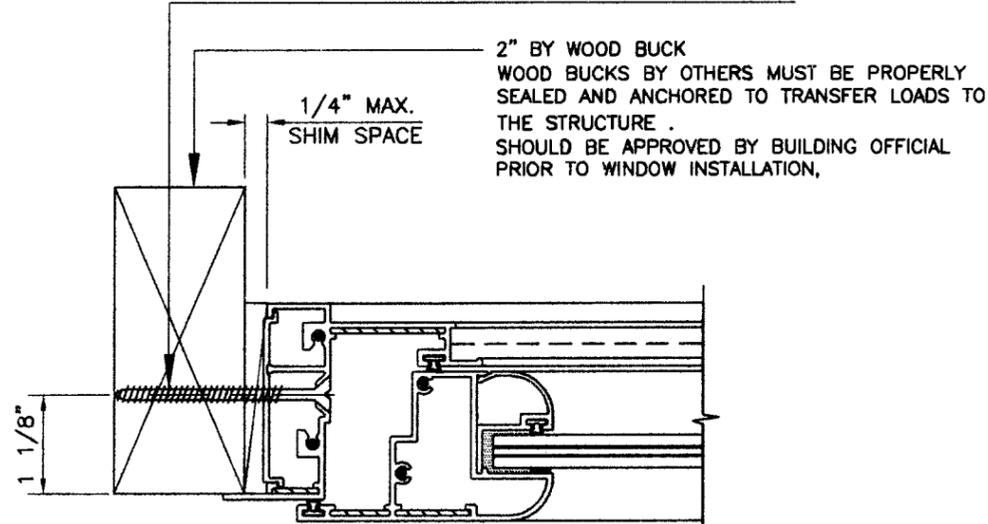
MINIMUM THICKNESS = 1/8"

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



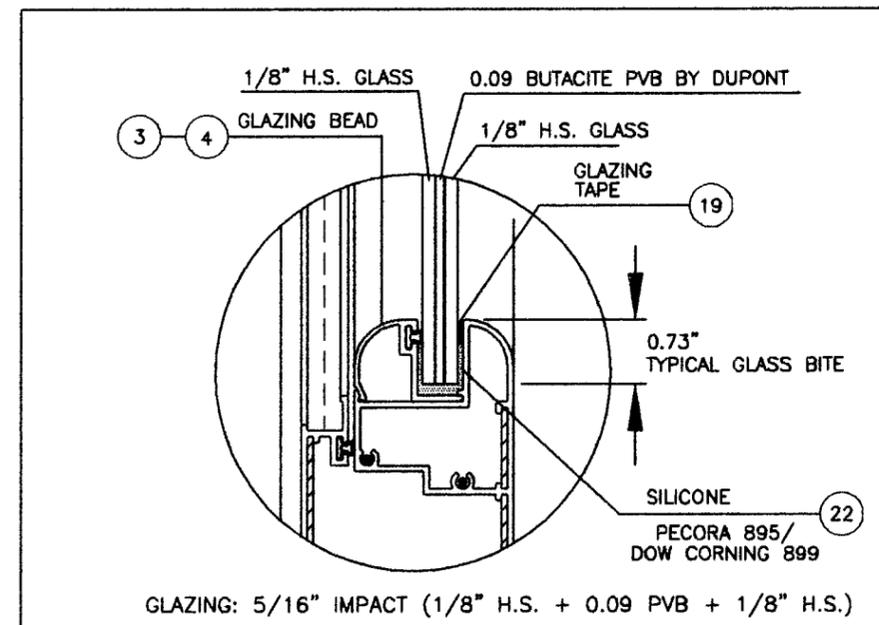
ATTACHMENT TO METAL STRUCTURE

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)



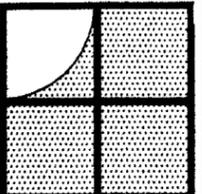
ATTACHMENT TO WOOD

TYPICAL SECTIONS AT JAMBS



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

GLAZING DETAIL



Sunshine Windows Manufacturing, Inc.
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SERIES 2009 OUT-SWINGING ALUMINUM CASEMENT WINDOW IMPACT RESISTANT GLASS

PRODUCT REVISED as complying with the Florida Building Code
Acceptance No 10-0907.01
Expiration Date 2017/2014
By *[Signature]*
Miami Dade Product Control Division

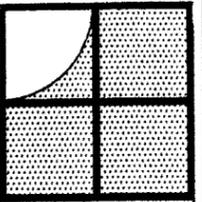
[Signature]
03-19-10

FRANCISCO HERNANDEZ
FLORIDA PE # 51393

Drawn by: NM
Date: 12-03-08
Scale: 1/2" = 1"
Revision: 05-07-09
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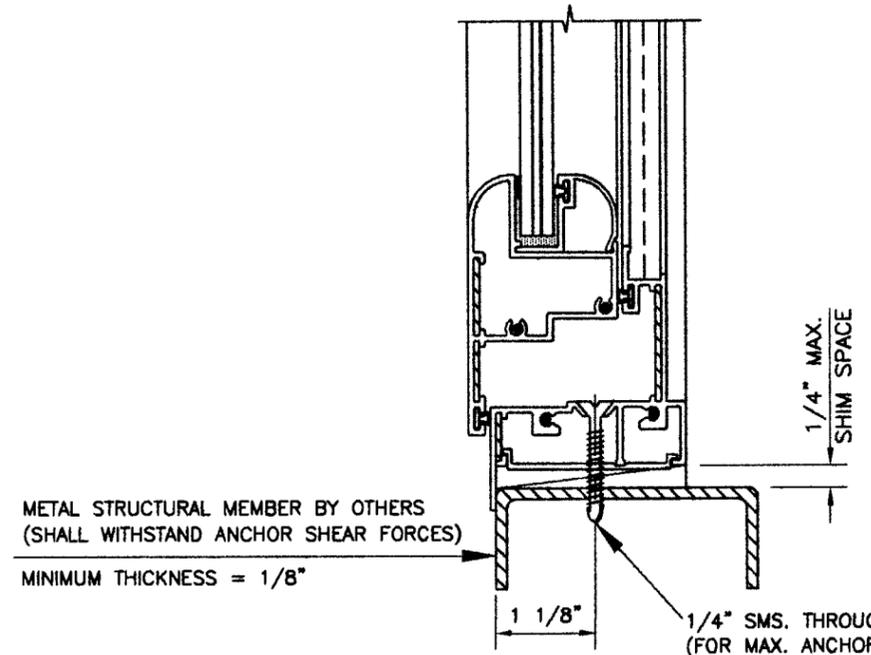
DRAWING NO.
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SHEET
5 OF 6



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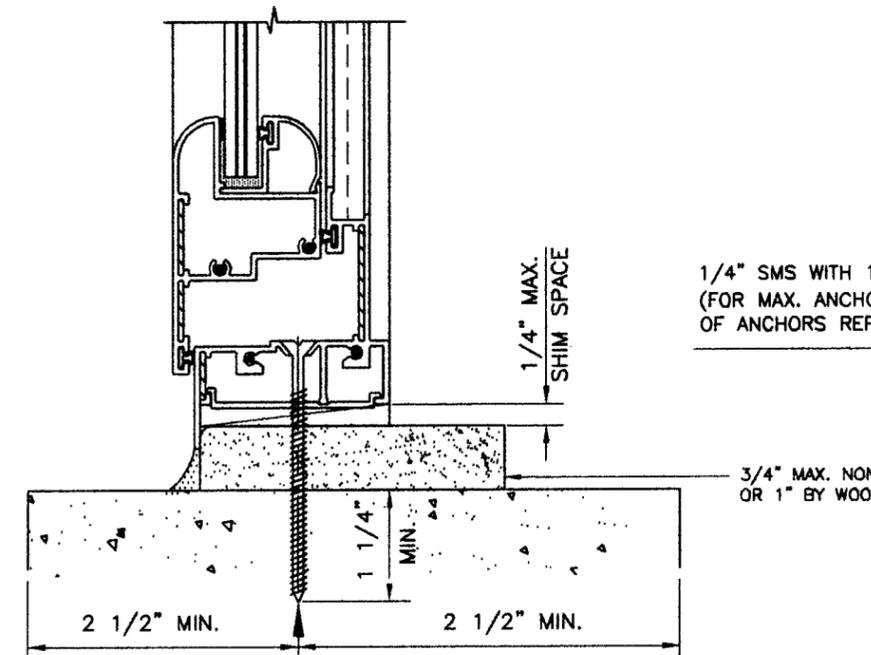
**SERIES 2009 OUT-SWINGING
ALUMINUM CASEMENT WINDOW
IMPACT RESISTANT GLASS**



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



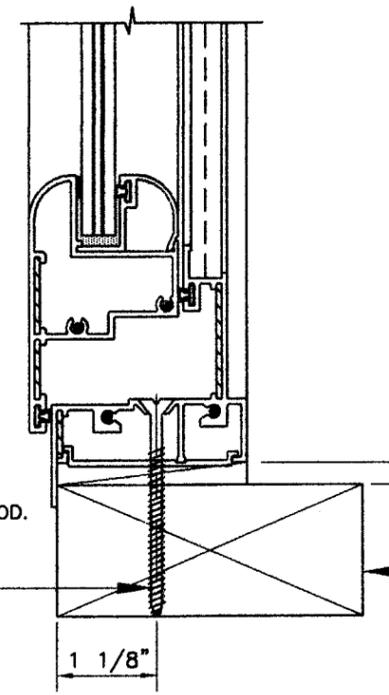
1/4" SMS WITH 1 1/2" MIN. PENETRATION INTO WOOD.
(FOR MAX. ANCHOR SPACING AND NUMBER
OF ANCHORS REFER TO SHEET 1 OF 6)

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

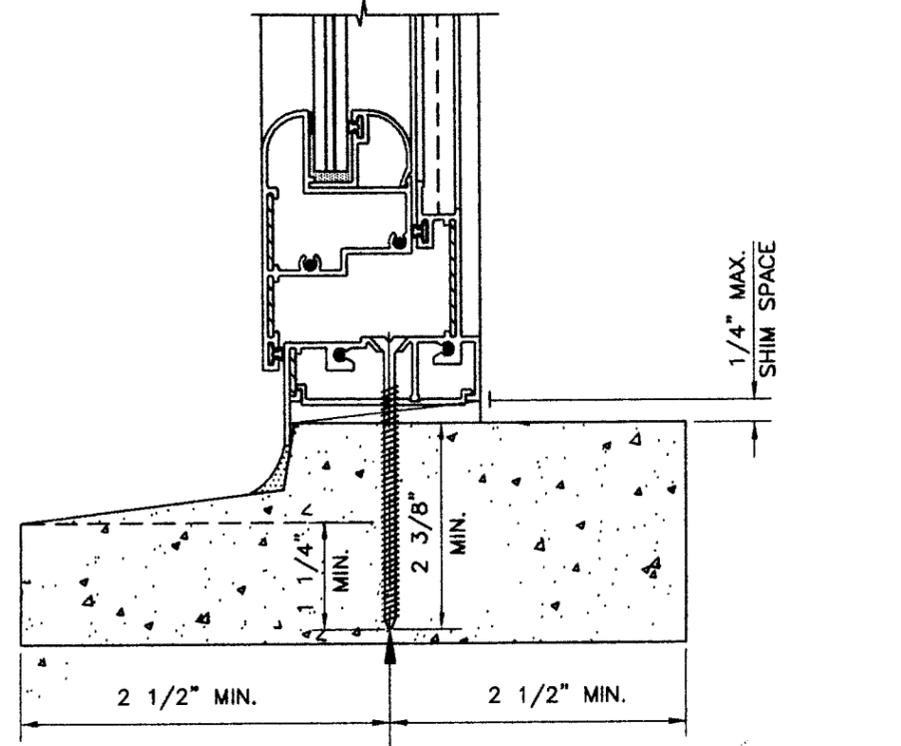
1/4" TAPCONS WITH 1 1/4" MIN. EMBEDMENT
INTO MASONRY THROUGH 1" BY WOOD BUCK
OR NON SHRINK NON METALLIC GROUT
(FOR MAX. ANCHOR SPACING AND NUMBER
OF ANCHORS REFER TO SHEET 1 OF 6)

ATTACHMENT TO MASONRY

TYPICAL SECTIONS AT SILL



ATTACHMENT TO WOOD



1/4" TAPCONS WITH 1 1/4" MIN. EMBEDMENT
INTO MASONRY
(FOR MAX. ANCHOR SPACING AND NUMBER
OF ANCHORS REFER TO 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 10-0907.01
Expiration Date 06/17/2014
By *[Signature]*
Miami Dade Product Control
Division

[Signature]
03-19-10

FRANCISCO HERNANDEZ
FLORIDA PE # 51393

Drawn by: NM
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DRAWING NO.
CS09-01

SHEET
6 OF 6