



DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY  
AFFAIRS (PERA)  
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION  
11805 SW 26 Street, Room 208  
Miami, Florida 33175-2474  
T (786) 315-2590 F (786) 315-2599  
[www.miamidade.gov/pera](http://www.miamidade.gov/pera)

**NOTICE OF ACCEPTANCE (NOA)**

Sunshine Windows Manufacturing, Inc.  
1745 W. 33<sup>rd</sup> 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 PERA - 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. PERA 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 "4302" Aluminum Fixed Window – L.M.I.**

**APPROVAL DOCUMENT:** Drawing No. PW08-01, titled "Series 4302 Aluminum Fixed Window Impact Resistant Glass", sheets 1 through 8 of 8, dated 08/18/08, with revision #1 dated 03/06/12, 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 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, model/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# 10-1221.01 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 Manuel Perez, P.E.



*MP*  
5/14/12

NOA No. 12-0314.11  
Expiration Date: September 11, 2013  
Approval Date: May 24, 2012  
Page 1

Sunshine Windows Manufacturing, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No **PW08-01**, titled "Series 4302 Aluminum Fixed Window Impact Resistant Glass", sheets 1 through 8 of 8, dated 08/18/08, with revision #1 dated 03/06/12, 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  
along with marked-up drawings and installation diagram of aluminum arch, eyebrow and rectangular fixed windows, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-3388**, dated 08/14/02, signed and sealed by Joseph Chan, P.E.  
*(Submitted under previous NOA# 03-0314.07)*

**C. CALCULATIONS**

1. Anchor verification calculations and structural analysis, complying with FBC-2007, prepared by Sunshine Windows Manufacturing, Inc., dated 12/17/10, signed and sealed by Francisco Hernandez, P.E.  
*(Submitted under previous NOA# 10-1221.01)*
2. Glazing complies with ASTM E1300-04

**D. QUALITY ASSURANCE**

1. Miami-Dade Department of Permitting, Environment, and Regulatory Affairs (PERA)

**E. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. **11-0325.05** issued to Solutia, Inc. for their "**Saflex and Vanceva clear and color interlayers**" dated 05/05/11, expiring on 05/21/16.

  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 12-0314.11  
Expiration Date: September 11, 2013  
Approval Date: May 24, 2012

**Sunshine Windows Manufacturing, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**F. STATEMENTS**

1. Statement letter of conformance, complying with FBC-2010, and of no financial interest, dated March 09, 2012, signed and sealed by Francisco Hernandez, P.E.
2. Laboratory compliance letter for Test Report No. **FTL-3388**, issued by Fenestration Testing Laboratory, Inc., dated 09/05/02, signed and sealed by Joseph Chan, P.E.  
*(Submitted under previous NOA# 03-0314.07)*

**G. OTHERS**

1. Notice of Acceptance No. **10-1221.01**, issued to Sunshine Windows Manufacturing, Inc. for their Series "4302" Aluminum Fixed Window - L.M.I., approved on 02/24/11 and expiring on 09/11/13.



Manuel Perez, P.E.

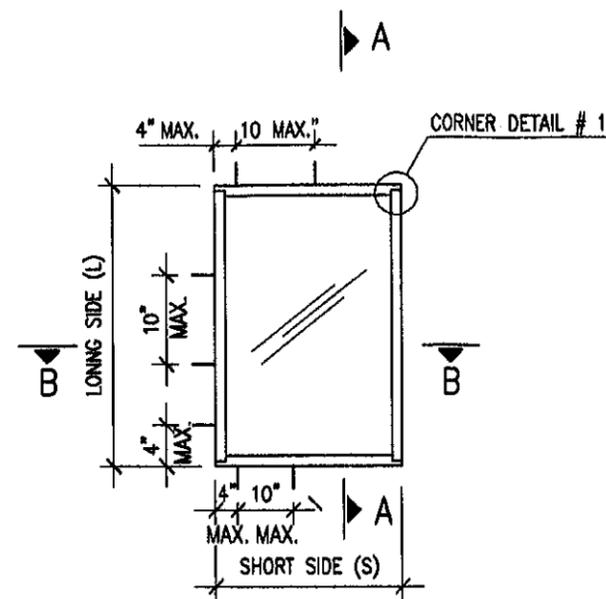
Product Control Examiner

NOA No. 12-0314.11

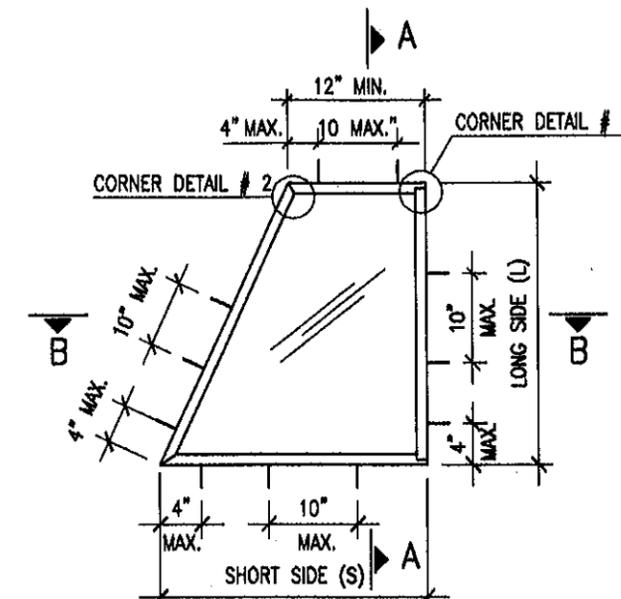
Expiration Date: September 11, 2013

Approval Date: May 24, 2012

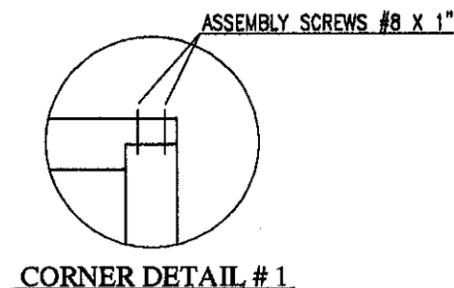
| WINDOW SIZE<br>L X S<br>INCHES | DESIGN PRESSURES<br>CHART - PSF |               |            |       |       |
|--------------------------------|---------------------------------|---------------|------------|-------|-------|
|                                | NUMBER OF ANCHORS               |               |            | POS.  | NEG.  |
|                                | LONG SIDE                       | INCLINED SIDE | SHORT SIDE |       |       |
| 108 X 26                       | 11                              | 12            | 3          | 90.00 | 90.00 |
| 96 X 26                        | 10                              | 11            | 3          | 90.00 | 90.00 |
| 91 X 26                        | 10                              | 11            | 3          | 90.00 | 90.00 |
| 84 X 26                        | 9                               | 10            | 3          | 90.00 | 90.00 |
| 78 X 37                        | 8                               | 9             | 4          | 90.00 | 90.00 |
| 78 X 26                        | 8                               | 9             | 3          | 90.00 | 90.00 |
| 78 X 19                        | 8                               | 9             | 3          | 90.00 | 90.00 |
| 63 X 46                        | 7                               | 8             | 5          | 76.30 | 76.30 |
| 63 X 39                        | 7                               | 8             | 5          | 90.00 | 90.00 |
| 63 X 37                        | 7                               | 8             | 4          | 90.00 | 90.00 |
| 63 X 26                        | 7                               | 8             | 3          | 90.00 | 90.00 |
| 63 X 19                        | 7                               | 8             | 3          | 90.00 | 90.00 |
| 48 X 48                        | 5                               | 6             | 5          | 73.10 | 73.10 |
| 53 X 46                        | 6                               | 7             | 5          | 76.30 | 76.30 |
| 53 X 39                        | 6                               | 7             | 5          | 90.00 | 90.00 |
| 53 X 37                        | 6                               | 7             | 4          | 90.00 | 90.00 |
| 53 X 26                        | 6                               | 7             | 3          | 90.00 | 90.00 |
| 53 X 19                        | 6                               | 7             | 3          | 90.00 | 90.00 |
| 46 X 39                        | 5                               | 6             | 5          | 90.00 | 90.00 |
| 46 X 37                        | 5                               | 6             | 4          | 90.00 | 90.00 |
| 46 X 26                        | 5                               | 6             | 3          | 90.00 | 90.00 |
| 46 X 19                        | 5                               | 6             | 3          | 90.00 | 90.00 |
| 38 X 37                        | 4                               | 5             | 4          | 90.00 | 90.00 |
| 38 X 26                        | 4                               | 5             | 3          | 90.00 | 90.00 |
| 38 X 19                        | 4                               | 5             | 3          | 90.00 | 90.00 |
| 26 X 26                        | 3                               | 4             | 3          | 90.00 | 90.00 |
| 26 X 19                        | 3                               | 4             | 3          | 90.00 | 90.00 |
| 74 X 39                        | 8                               | 9             | 5          | 90.00 | 90.00 |
| 74 X 37                        | 8                               | 9             | 4          | 90.00 | 90.00 |
| 74 X 26                        | 8                               | 9             | 3          | 90.00 | 90.00 |
| 74 X 19                        | 8                               | 9             | 3          | 90.00 | 90.00 |



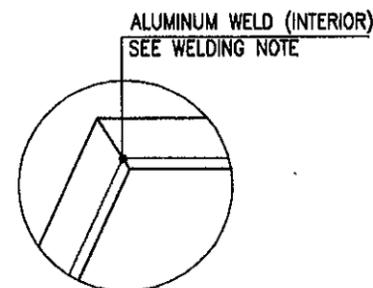
**RECTANGLE  
TYPICAL ELEVATION**



**TRAPEZOID  
TYPICAL ELEVATION**



**CORNER DETAIL # 1**



**CORNER DETAIL # 2**

**GENERAL NOTES:**

- 1.- THIS PRODUCT MEETS THE REQUIREMENTS OF THE 2010 FBC.
- 2.- SHUTTERS ARE NOT REQUIRED.
- 3.- FOR NUMBER OF ANCHORS FOR EACH UNIT SIZE REFER TO DESIGN PRESSURES CHART.
- 4.- FOR ATTACHMENT INTO CONCRETE OR MASONRY WITH 1 BY USE 1/4" DIAM. ULTRACON BY ELCO WITH 1 1/4" MIN. EMBEDMENT INTO CONCRETE/MASONRY AND 2 1/2" MIN. EDGE DIST. FOR ATTACHMENT INTO 2 BY OR WOODEN STRUCTURE USE 1/4" DIAM. ULTRACON BY ELCO WITH 1 1/2" MIN. EMBEDMENT INTO WOOD AND 1" MIN. EDGE DISTANCE.
- 5.- FOR ATTACHMENT INTO METAL USE 1/4" DIAM. GRADE 5 SHEET METAL SCREWS WITH 1" MIN. EDGE DISTANCE.
- 5.- CONCRETE STRENGTH  $f'c=3,200$  psi MIN., CMU PER ASTM C90, FILLED CMU  $f_m=2,000$  psi MIN.
- 6.- USE NON SHRINK NON METALLIC GROUT 3 KSI MIN. AS REQUIRED.
- 7.- WOOD HOST STRUCTURE SHALL BE "SOUTHERN YELLOW PINE"  $G= 0.55$  OR GREATER DENSITY.
- 8.- THE THICKNESS OF THE STEEL/ALUMINUM HOST STRUCTURE SHALL BE NO LESS THAN 1/8". ALUMINUM SHALL BE 6063-T6. STEEL SHALL BE  $F_y= 36$  KSI MIN.
- 9.- WOOD BUCKS (BY OTHERS) SHALL BE PROPERLY ATTACHED TO TRANSFER GLAZING SYSTEM LOADS TO THE STRUCTURE AND SHALL BE APPROVED BY BUILDING OFFICIAL PRIOR TO WINDOW INSTALLATION.
- 10.- ALUMINUM IN CONTACT WITH DISSIMILAR MATERIALS SHALL BE PROTECTED (BY OTHERS) AS SPECIFIED IN SECTION 2003.8.4 OF THE 2010 FBC.

**GLASS:**

0.34" OVERALL LAMINATED GLASS USING TWO LITES OF 1/8" HEAT STRENGTHENED GLASS WITH A 0.090 SAFLEX III G INTERLAYER FILM BY SOLUTIA.

**WELDING:**

FOR CORNER WELDED CONNECTIONS USE 1/8" FILLET WELD WITH 1 1/4" MINIMUM LENGTH MADE WITH ER4043 FILLER ALLOY.

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 12-0314.11  
Expiration Date SEP. 11, 2013  
By *Manuel Perez*  
Miami Dade Product Control

*Francisco Hernandez*  
3-9-12  
FRANCISCO HERNANDEZ  
FLORIDA PE # 51393

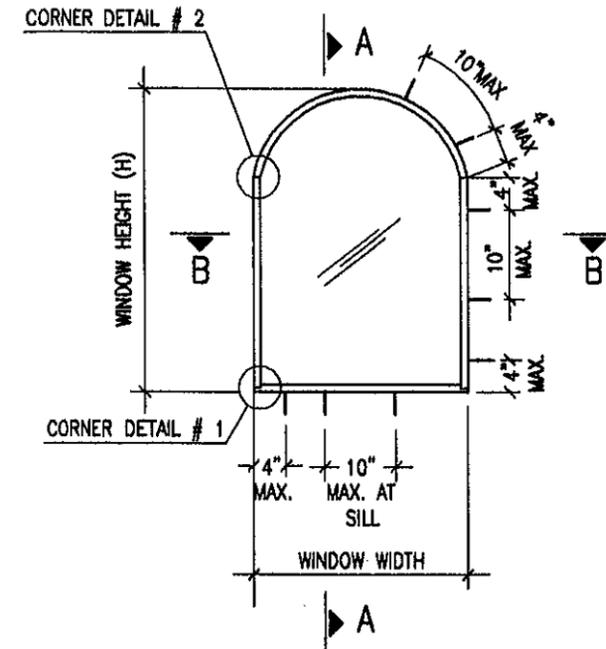
Sunshine Windows  
Manufacturing, Inc.  
1745 W. 33rd Place  
Hialeah, Florida 33012  
Ph: (305)364-9952  
Fax:(305)828-5118

SERIES 4302 ALUMINUM  
FIXED WINDOW  
IMPACT RESISTANT GLASS

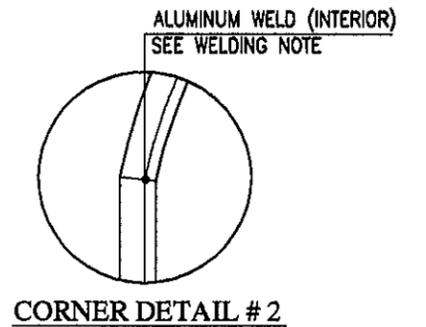
| No | DATE     | REVISION             |
|----|----------|----------------------|
| 1  | 03-06-12 | UPDATED FOR 2010 FBC |

DRAWING No.  
PW08-01  
DATE: 08-18-08  
SCALE: 1/2"=1"  
SHEET 1 OF 8

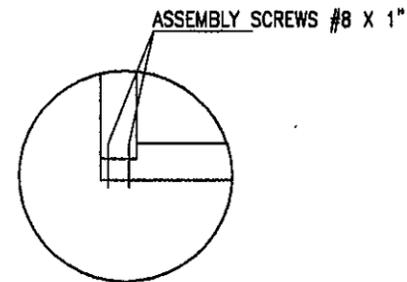
| WINDOW SIZE<br>W X H<br>INCHES | DESIGN PRESSURES<br>CHART - PSF |       |               |       |       |
|--------------------------------|---------------------------------|-------|---------------|-------|-------|
|                                | NUMBER OF<br>ANCHORS            |       |               | POS.  | NEG.  |
|                                | SILL                            | JAMBS | CIRCLE<br>TOP |       |       |
| 26 X 108                       | 3                               | 11    | 4             | 90.00 | 90.00 |
| 26 X 96                        | 3                               | 10    | 4             | 90.00 | 90.00 |
| 26 X 91                        | 3                               | 10    | 4             | 90.00 | 90.00 |
| 26 X 84                        | 3                               | 9     | 4             | 90.00 | 90.00 |
| 37 X 78                        | 4                               | 8     | 6             | 90.00 | 90.00 |
| 26 X 78                        | 3                               | 8     | 4             | 90.00 | 90.00 |
| 19 X 78                        | 3                               | 8     | 3             | 90.00 | 90.00 |
| 46 X 63                        | 5                               | 7     | 7             | 76.30 | 76.30 |
| 39 X 63                        | 5                               | 7     | 6             | 90.00 | 90.00 |
| 37 X 63                        | 4                               | 7     | 6             | 90.00 | 90.00 |
| 26 X 63                        | 3                               | 7     | 4             | 90.00 | 90.00 |
| 19 X 63                        | 3                               | 7     | 3             | 90.00 | 90.00 |
| 48 X 48                        | 5                               | 5     | 7             | 73.10 | 73.10 |
| 46 X 53                        | 5                               | 6     | 7             | 76.30 | 76.30 |
| 39 X 53                        | 5                               | 6     | 6             | 90.00 | 90.00 |
| 37 X 53                        | 4                               | 6     | 6             | 90.00 | 90.00 |
| 26 X 53                        | 3                               | 6     | 4             | 90.00 | 90.00 |
| 19 X 53                        | 3                               | 6     | 3             | 90.00 | 90.00 |
| 39 X 46                        | 5                               | 5     | 6             | 90.00 | 90.00 |
| 37 X 46                        | 4                               | 5     | 6             | 90.00 | 90.00 |
| 26 X 46                        | 3                               | 5     | 4             | 90.00 | 90.00 |
| 19 X 46                        | 3                               | 5     | 3             | 90.00 | 90.00 |
| 37 X 38                        | 4                               | 4     | 6             | 90.00 | 90.00 |
| 26 X 38                        | 3                               | 4     | 4             | 90.00 | 90.00 |
| 19 X 38                        | 3                               | 4     | 3             | 90.00 | 90.00 |
| 26 X 26                        | 3                               | 3     | 4             | 90.00 | 90.00 |
| 19 X 26                        | 3                               | 3     | 3             | 90.00 | 90.00 |
| 39 X 74                        | 5                               | 8     | 6             | 90.00 | 90.00 |
| 37 X 74                        | 4                               | 8     | 6             | 90.00 | 90.00 |
| 26 X 74                        | 3                               | 8     | 4             | 90.00 | 90.00 |
| 19 X 74                        | 3                               | 8     | 3             | 90.00 | 90.00 |



**UPRIGHT RECTANGLE WITH CIRCLE TOP  
TYPICAL ELEVATION**



**CORNER DETAIL # 2**



**CORNER DETAIL # 1**

**GENERAL NOTES:**

- 1.- THIS PRODUCT MEETS THE REQUIREMENTS OF THE 2010 FBC.
- 2.- SHUTTERS ARE NOT REQUIRED.
- 3.- FOR NUMBER OF ANCHORS FOR EACH UNIT SIZE REFER TO DESIGN PRESSURES CHART.
- 4.- FOR ATTACHMENT INTO CONCRETE OR MASONRY WITH 1 BY USE 1/4" DIAM. ULTRACON BY ELCO WITH 1 1/4" MIN. EMBEDMENT INTO CONCRETE/MASONRY AND 2 1/2" MIN. EDGE DIST. FOR ATTACHMENT INTO 2 BY OR WOODEN STRUCTURE USE 1/4" DIAM. ULTRACON BY ELCO WITH 1 1/2" MIN. EMBEDMENT INTO WOOD AND 1" MIN EDGE DISTANCE.
- 5.- FOR ATTACHMENT INTO METAL USE 1/4" DIAM. GRADE 5 SHEET METAL SCREWS WITH 1" MIN. EDGE DISTANCE.
- 5.- CONCRETE STRENGTH f'c=3,200 psi MIN., CMU PER ASTM C90, FILLED CMU fm=2,000 psi MIN.
- 6.- USE NON SHRINK NON METALLIC GROUT 3 KSI MIN. AS REQUIRED.
- 7.- WOOD HOST STRUCTURE SHALL BE "SOUTHERN YELLOW PINE" G= 0.55 OR GREATER DENSITY.
- 8.- THE THICKNESS OF THE STEEL/ALUMINUM HOST STRUCTURE SHALL BE NO LESS THAN 1/8". ALUMINUM SHALL BE 6063-T6. STEEL SHALL BE Fy= 36 KSI MIN.
- 9.- WOOD BUCKS (BY OTHERS) SHALL BE PROPERLY ATTACHED TO TRANSFER GLAZING SYSTEM LOADS TO THE STRUCTURE AND SHALL BE APPROVED BY BUILDING OFFICIAL PRIOR TO WINDOW INSTALLATION.
- 10.- ALUMINUM IN CONTACT WITH DISSIMILAR MATERIALS SHALL BE PROTECTED (BY OTHERS) AS SPECIFIED IN SECTION 2003.8.4 OF THE 2010 FBC.

**GLASS:**

0.34" OVERALL LAMINATED GLASS USING TWO LITES OF 1/8" HEAT STRENGTHENED GLASS WITH A 0.090 SAFLEX IIIIG INTERLAYER FILM BY SOLUTIA.

**WELDING:**

FOR CORNER WELDED CONNECTIONS USE 1/8" FILLET WELD WITH 1 1/4" MINIMUM LENGTH MADE WITH ER4043 FILLER ALLOY.

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 12-0314.11  
Expiration Date SEPT. 11, 2013  
By *Francisco Hernandez*  
Miami Dade Product Control

*Francisco Hernandez*  
3-9-12  
FRANCISCO HERNANDEZ  
FLORIDA PE # 51393

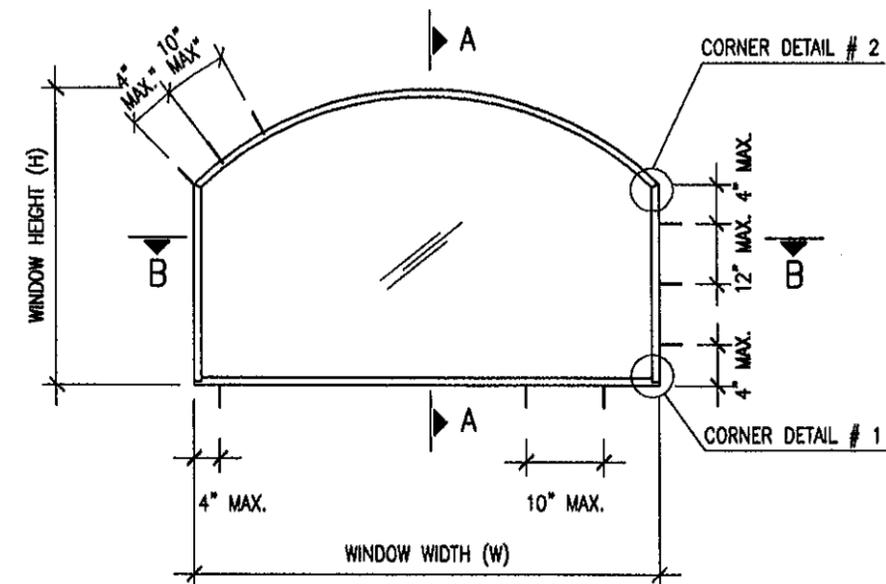
Sunshine Windows  
Manufacturing, Inc.  
1745 W. 33rd Place  
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Ph: (305)364-9952  
Fax:(305)828-5118

SERIES 4302 ALUMINUM  
FIXED WINDOW  
IMPACT RESISTANT GLASS

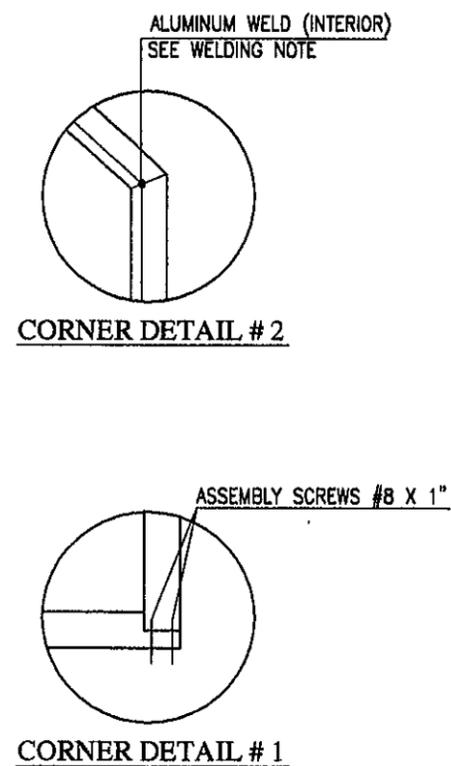
| No | DATE     | REVISION             |
|----|----------|----------------------|
| 1  | 03-06-12 | UPDATED FOR 2010 FBC |

DRAWING No.  
PW08-01  
DATE: 08-18-08  
SCALE: 1/2"=1"  
SHEET 2 OF 8

| WINDOW SIZE<br>W X H<br>INCHES | DESIGN PRESSURES<br>CHART - PSF |            |       |       |       |
|--------------------------------|---------------------------------|------------|-------|-------|-------|
|                                | NUMBER OF ANCHORS               |            |       | POS.  | NEG.  |
|                                | SILL                            | CIRCLE TOP | JAMBS |       |       |
| 108 X 26                       | 11                              | 16         | 3     | 90.00 | 90.00 |
| 96 X 26                        | 10                              | 14         | 3     | 90.00 | 90.00 |
| 91 X 26                        | 10                              | 14         | 3     | 90.00 | 90.00 |
| 84 X 26                        | 9                               | 13         | 3     | 90.00 | 90.00 |
| 78 X 37                        | 8                               | 12         | 4     | 90.00 | 90.00 |
| 78 X 26                        | 8                               | 12         | 3     | 90.00 | 90.00 |
| 78 X 19                        | 8                               | 12         | 3     | 90.00 | 90.00 |
| 63 X 46                        | 7                               | 10         | 5     | 76.60 | 76.30 |
| 63 X 39                        | 7                               | 10         | 4     | 90.00 | 90.00 |
| 63 X 37                        | 7                               | 10         | 4     | 90.00 | 90.00 |
| 63 X 26                        | 7                               | 10         | 3     | 90.00 | 90.00 |
| 63 X 19                        | 7                               | 10         | 3     | 90.00 | 90.00 |
| 48 X 48                        | 5                               | 7          | 5     | 73.10 | 73.10 |
| 53 X 46                        | 6                               | 9          | 5     | 76.30 | 76.30 |
| 53 X 39                        | 6                               | 9          | 4     | 90.00 | 90.00 |
| 53 X 37                        | 6                               | 9          | 4     | 90.00 | 90.00 |
| 53 X 26                        | 6                               | 9          | 3     | 90.00 | 90.00 |
| 53 X 19                        | 6                               | 9          | 3     | 90.00 | 90.00 |
| 46 X 39                        | 5                               | 7          | 4     | 90.00 | 90.00 |
| 46 X 37                        | 5                               | 7          | 4     | 90.00 | 90.00 |
| 46 X 26                        | 5                               | 7          | 3     | 90.00 | 90.00 |
| 46 X 19                        | 5                               | 7          | 3     | 90.00 | 90.00 |
| 38 X 37                        | 4                               | 6          | 4     | 90.00 | 90.00 |
| 38 X 26                        | 4                               | 6          | 3     | 90.00 | 90.00 |
| 38 X 19                        | 4                               | 6          | 3     | 90.00 | 90.00 |
| 26 X 26                        | 3                               | 4          | 3     | 90.00 | 90.00 |
| 26 X 19                        | 3                               | 4          | 3     | 90.00 | 90.00 |
| 74 X 39                        | 8                               | 12         | 4     | 90.00 | 90.00 |
| 74 X 37                        | 8                               | 12         | 4     | 90.00 | 90.00 |
| 74 X 26                        | 8                               | 12         | 3     | 90.00 | 90.00 |
| 74 X 19                        | 8                               | 12         | 3     | 90.00 | 90.00 |



**SIDEWAYS RECTANGLE WITH CIRCLE TOP  
TYPICAL ELEVATION**



**GENERAL NOTES:**

- 1.- THIS PRODUCT MEETS THE REQUIREMENTS OF THE 2010 FBC.
- 2.- SHUTTERS ARE NOT REQUIRED.
- 3.- FOR NUMBER OF ANCHORS FOR EACH UNIT SIZE REFER TO DESIGN PRESSURES CHART.
- 4.- FOR ATTACHMENT INTO CONCRETE OR MASONRY WITH 1 BY USE 1/4" DIAM. ULTRACON BY ELCO WITH 1 1/4" MIN. EMBEDMENT INTO CONCRETE/MASONRY AND 2 1/2" MIN. EDGE DIST. FOR ATTACHMENT INTO 2 BY OR WOODEN STRUCTURE USE 1/4" DIAM. ULTRACON BY ELCO WITH 1 1/2" MIN. EMBEDMENT INTO WOOD AND 1" MIN. EDGE DISTANCE.
- 5.- FOR ATTACHMENT INTO METAL USE 1/4" DIAM. GRADE 5 SHEET METAL SCREWS WITH 1" MIN. EDGE DISTANCE.
- 5.- CONCRETE STRENGTH f'c=3,200 psi MIN., CMU PER ASTM C90, FILLED CMU fm=2,000 psi MIN.
- 6.- USE NON SHRINK NON METALLIC GROUT 3 KSI MIN. AS REQUIRED.
- 7.- WOOD HOST STRUCTURE SHALL BE "SOUTHERN YELLOW PINE" G= 0.55 OR GREATER DENSITY.
- 8.- THE THICKNESS OF THE STEEL/ALUMINUM HOST STRUCTURE SHALL BE NO LESS THAN 1/8". ALUMINUM SHALL BE 6063-T6. STEEL SHALL BE Fy= 36 KSI MIN.
- 9.- WOOD BUCKS (BY OTHERS) SHALL BE PROPERLY ATTACHED TO TRANSFER GLAZING SYSTEM LOADS TO THE STRUCTURE AND SHALL BE APPROVED BY BUILDING OFFICIAL PRIOR TO WINDOW INSTALLATION.
- 10.- ALUMINUM IN CONTACT WITH DISSIMILAR MATERIALS SHALL BE PROTECTED (BY OTHERS) AS SPECIFIED IN SECTION 2003.8.4 OF THE 2010 FBC.

**GLASS:**  
0.34" OVERALL LAMINATED GLASS USING TWO LITES OF 1/8" HEAT STRENGTHENED GLASS WITH A 0.090 SAFLEX III G INTERLAYER FILM BY SOLUTIA.

**WELDING:**  
FOR CORNER WELDED CONNECTIONS USE 1/8" FILLET WELD WITH 1 1/4" MINIMUM LENGTH MADE WITH ER4043 FILLER ALLOY.

PRODUCT REVISED  
as complying with the Florida Building Code  
Acceptance No. 12-0314.11  
Expiration Date 5/21/11, 2013  
By *Francisco Hernandez*  
Miami Dade Product Control

*Francisco Hernandez*  
3-9-12  
FRANCISCO HERNANDEZ  
FLORIDA, PE # 51393

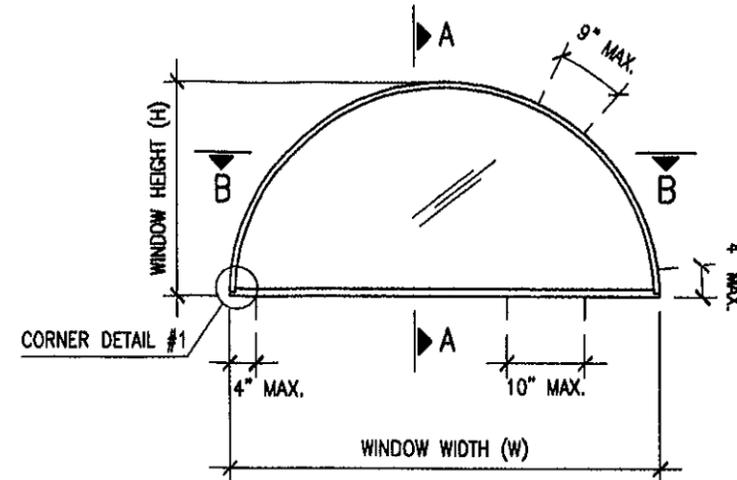
Sunshine Windows Manufacturing, Inc.  
1745 W. 33rd Place  
Hialeah, Florida 33012  
Ph: (305)364-9952  
Fax:(305)828-5118

SERIES 4302 ALUMINUM  
FIXED WINDOW  
IMPACT RESISTANT GLASS

| No | DATE     | REVISION             |
|----|----------|----------------------|
| 1  | 03-06-12 | UPDATED FOR 2010 FBC |

DRAWING No.  
PW08-01  
DATE: 08-18-08  
SCALE: 1/2"=1"  
SHEET 3 OF 8

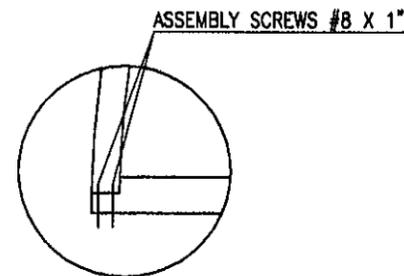
| WINDOW SIZE<br>W X H<br>INCHES | DESIGN PRESSURES<br>CHART - PSF |      |       |       |
|--------------------------------|---------------------------------|------|-------|-------|
|                                | NUMBER OF ANCHORS               |      | POS.  | NEG.  |
|                                | SILL                            | ARCH |       |       |
| 108 X 26                       | 11                              | 14   | 90.00 | 90.00 |
| 96 X 26                        | 10                              | 13   | 90.00 | 90.00 |
| 91 X 26                        | 10                              | 13   | 90.00 | 90.00 |
| 84 X 26                        | 9                               | 12   | 90.00 | 90.00 |
| 78 X 37                        | 8                               | 14   | 90.00 | 90.00 |
| 78 X 26                        | 8                               | 12   | 90.00 | 90.00 |
| 78 X 19                        | 8                               | 11   | 90.00 | 90.00 |
| 63 X 32                        | 7                               | 12   | 90.00 | 90.00 |
| 63 X 26                        | 7                               | 10   | 90.00 | 90.00 |
| 63 X 19                        | 7                               | 9    | 90.00 | 90.00 |
| 48 X 24                        | 5                               | 9    | 90.00 | 90.00 |
| 53 X 27                        | 6                               | 10   | 90.00 | 90.00 |
| 53 X 19                        | 6                               | 8    | 90.00 | 90.00 |
| 46 X 23                        | 5                               | 9    | 90.00 | 90.00 |
| 46 X 19                        | 5                               | 8    | 90.00 | 90.00 |
| 38 X 19                        | 4                               | 7    | 90.00 | 90.00 |
| 26 X 13                        | 3                               | 5    | 90.00 | 90.00 |
| 74 X 37                        | 8                               | 14   | 90.00 | 90.00 |
| 74 X 26                        | 8                               | 11   | 90.00 | 90.00 |
| 74 X 19                        | 8                               | 10   | 90.00 | 90.00 |



**ARCH**  
**TYPICAL ELEVATION**

**GENERAL NOTES:**

- 1.- THIS PRODUCT MEETS THE REQUIREMENTS OF THE 2010 FBC.
- 2.- SHUTTERS ARE NOT REQUIRED.
- 3.- FOR NUMBER OF ANCHORS FOR EACH UNIT SIZE REFER TO DESIGN PRESSURES CHART.
- 4.- FOR ATTACHMENT INTO CONCRETE OR MASONRY WITH 1 BY USE 1/4" DIAM. ULTRACON BY ELCO WITH 1 1/4" MIN. EMBEDMENT INTO CONCRETE/MASONRY AND 2 1/2" MIN. EDGE DIST. FOR ATTACHMENT INTO 2 BY OR WOODEN STRUCTURE USE 1/4" DIAM. ULTRACON BY ELCO WITH 1 1/2" MIN. EMBEDMENT INTO WOOD AND 1" MIN EDGE DISTANCE. FOR ATTACHMENT INTO METAL USE 1/4" DIAM. GRADE 5 SHEET METAL SCREWS WITH 1" MIN. EDGE DISTANCE.
- 5.- CONCRETE STRENGTH f'c=3,200 psi MIN., CMU PER ASTM C90, FILLED CMU fm=2,000 psi MIN.
- 6.- USE NON SHRINK NON METALLIC GROUT 3 KSI MIN. AS REQUIRED.
- 7.- WOOD HOST STRUCTURE SHALL BE "SOUTHERN YELLOW PINE" G= 0.55 OR GREATER DENSITY.
- 8.- THE THICKNESS OF THE STEEL/ALUMINUM HOST STRUCTURE SHALL BE NO LESS THAN 1/8". ALUMINUM SHALL BE 6063-T6. STEEL SHALL BE Fy= 36 KSI MIN.
- 9.- WOOD BUCKS (BY OTHERS) SHALL BE PROPERLY ATTACHED TO TRANSFER GLAZING SYSTEM LOADS TO THE STRUCTURE AND SHALL BE APPROVED BY BUILDING OFFICIAL PRIOR TO WINDOW INSTALLATION.
- 10.- ALUMINUM IN CONTACT WITH DISSIMILAR MATERIALS SHALL BE PROTECTED (BY OTHERS) AS SPECIFIED IN SECTION 2003.8.4 OF THE 2010 FBC.



**CORNER DETAIL #1**

**GLASS:**

0.34" OVERALL LAMINATED GLASS USING TWO LITES OF 1/8" HEAT STRENGTHENED GLASS WITH A 0.090 SAFLEX IIIIG INTERLAYER FILM BY SOLUTIA.

**WELDING:**

FOR CORNER WELDED CONNECTIONS USE 1/8" FILLET WELD WITH 1 1/4" MINIMUM LENGTH MADE WITH ER4043 FILLER ALLOY.

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 12-0314.11  
Expiration Date SEP 11, 2013  
By *Manuel Perez*  
Miami/Dade Product Control

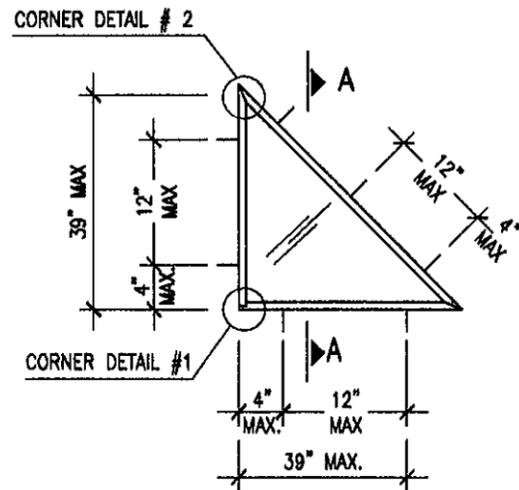
*Francisco Hernandez*  
3-9-12  
FRANCISCO HERNANDEZ  
FLORIDA PE # 61393

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

**SERIES 4302 ALUMINUM  
FIXED WINDOW  
IMPACT RESISTANT GLASS**

| NO | DATE     | REVISION             |
|----|----------|----------------------|
| 1  | 03-06-12 | UPDATED FOR 2010 FBC |

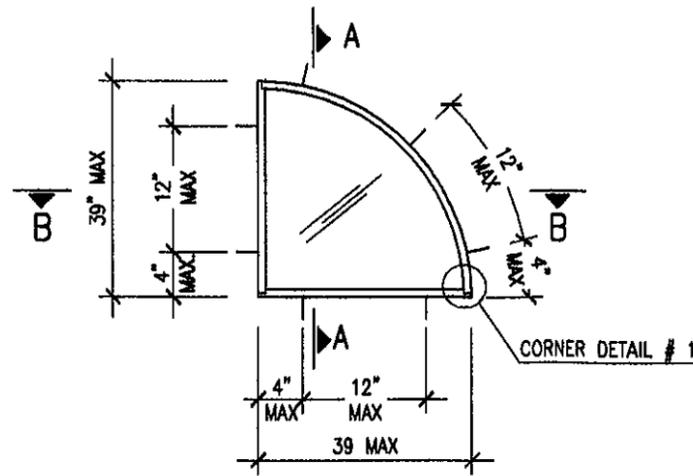
DRAWING No.  
**PW08-01**  
DATE: 08-18-08  
SCALE: 1/2"=1"  
SHEET 4 OF 8



**QUARTER ROUND  
TYPICAL ELEVATION**

**DESIGN PRESSURES**

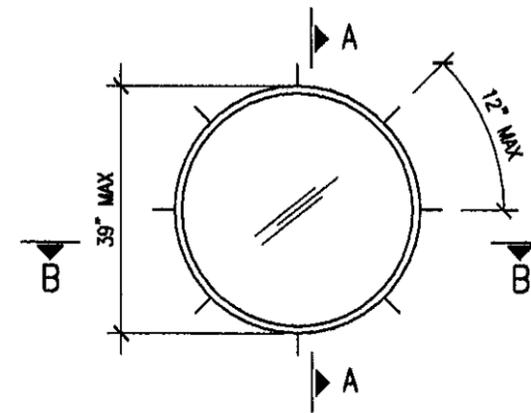
POSITIVE = +90.00 PSF  
NEGATIVE = -90.00 PSF



**QUARTER ROUND  
TYPICAL ELEVATION**

**DESIGN PRESSURES**

POSITIVE = +90.00 PSF  
NEGATIVE = -90.00 PSF



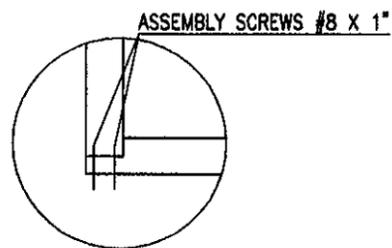
**FULL ROUND  
TYPICAL ELEVATION**

**DESIGN PRESSURES**

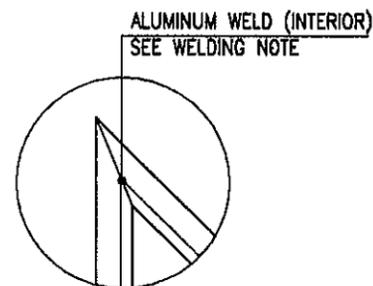
POSITIVE = +90.00 PSF  
NEGATIVE = -90.00 PSF

**GENERAL NOTES:**

- 1.- THIS PRODUCT MEETS THE REQUIREMENTS OF THE 2010 FBC.
- 2.- SHUTTERS ARE NOT REQUIRED.
- 3.- FOR NUMBER OF ANCHORS FOR EACH UNIT SIZE REFER TO DESIGN PRESSURES CHART.
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- 5.- CONCRETE STRENGTH  $f'c=3,200$  psi MIN., CMU PER ASTM C90, FILLED CMU  $f_m=2,000$  psi MIN.
- 6.- USE NON SHRINK NON METALLIC GROUT 3 KSI MIN. AS REQUIRED.
- 7.- WOOD HOST STRUCTURE SHALL BE "SOUTHERN YELLOW PINE" G= 0.55 OR GREATER DENSITY.
- 8.- THE THICKNESS OF THE STEEL/ALUMINUM HOST STRUCTURE SHALL BE NO LESS THAN 1/8". ALUMINUM SHALL BE 6063-T6. STEEL SHALL BE  $F_y= 36$  KSI MIN.
- 9.- WOOD BUCKS (BY OTHERS) SHALL BE PROPERLY ATTACHED TO TRANSFER GLAZING SYSTEM LOADS TO THE STRUCTURE AND SHALL BE APPROVED BY BUILDING OFFICIAL PRIOR TO WINDOW INSTALLATION.
- 10.- ALUMINUM IN CONTACT WITH DISSIMILAR MATERIALS SHALL BE PROTECTED (BY OTHERS) AS SPECIFIED IN SECTION 2003.8.4 OF THE 2010 FBC.



**CORNER DETAIL # 1**



**CORNER DETAIL # 2**

**GLASS:**

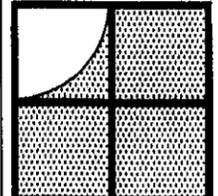
0.34" OVERALL LAMINATED GLASS USING TWO LITES OF 1/8" HEAT STRENGTHENED GLASS WITH A 0.090 SAFLEX IIIIG INTERLAYER FILM BY SOLUTIA.

**WELDING:**

FOR CORNER WELDED CONNECTIONS USE 1/8" FILLET WELD WITH 1 1/4" MINIMUM LENGTH MADE WITH ER4043 FILLER ALLOY.

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 12-0314.11  
Expiration Date SEPT. 11, 2013  
By Manuel Perez  
Miami Dade Product Control

*Francisco Hernandez*  
3-9-12  
FRANCISCO HERNANDEZ  
FLORIDA, PE # 51393

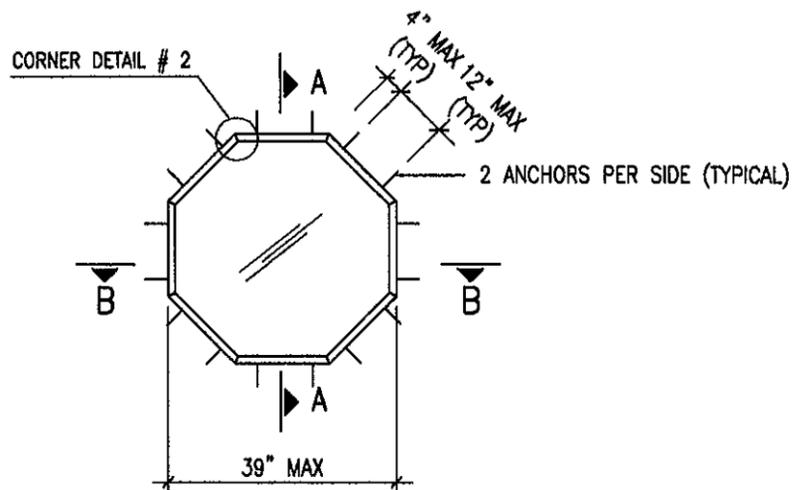


Sunshine Windows  
Manufacturing, Inc.  
1745 W. 33rd Place  
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Ph: (305)364-9952  
Fax:(305)828-5118

SERIES 4302 ALUMINUM  
FIXED WINDOW  
IMPACT RESISTANT GLASS

| No | DATE     | REVISION             |
|----|----------|----------------------|
| 1  | 03-06-12 | UPDATED FOR 2010 FBC |

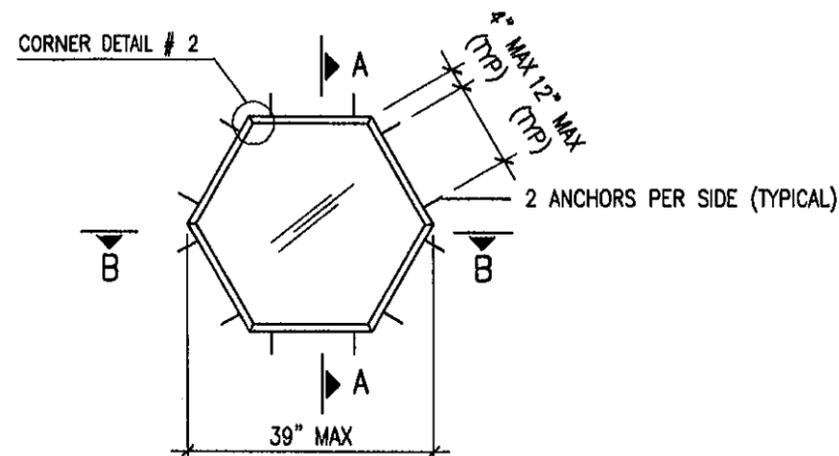
DRAWING No.  
PW08-01  
DATE: 08-18-08  
SCALE: 1/2"=1"  
SHEET 5 OF 8



**OCTAGON  
TYPICAL ELEVATION**

**DESIGN PRESSURES**

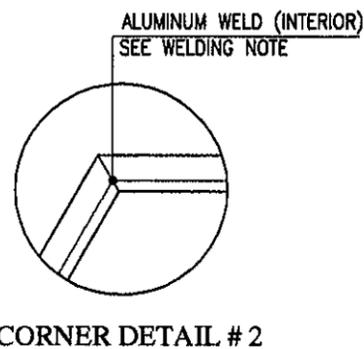
POSITIVE = +90.00 PSF  
NEGATIVE = -90.00 PSF



**HEXAGON  
TYPICAL ELEVATION**

**DESIGN PRESSURES**

POSITIVE = +90.00 PSF  
NEGATIVE = -90.00 PSF



**GLASS:**

0.34" OVERALL LAMINATED GLASS USING TWO LITES OF 1/8" HEAT STRENGTHENED GLASS WITH A 0.090 SAFLEX III G INTERLAYER FILM BY SOLUTIA.

**WELDING:**

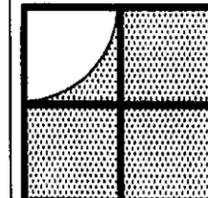
FOR CORNER WELDED CONNECTIONS USE 1/8" FILLET WELD WITH 1 1/4" MINIMUM LENGTH MADE WITH ER4043 FILLER ALLOY.

**GENERAL NOTES:**

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- 5.- CONCRETE STRENGTH  $f'c=3,200$  psi MIN., CMU PER ASTM C90, FILLED CMU  $f_m=2,000$  psi MIN.
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PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 12-0314-11  
Expiration Date SEPT. 11, 2013  
By *Francisco Hernandez*  
Miami Dade Product Control

*Francisco Hernandez*  
3-9-12  
FRANCISCO HERNANDEZ  
FLORIDA PE # 51393



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SERIES 4302 ALUMINUM  
FIXED WINDOW  
IMPACT RESISTANT GLASS

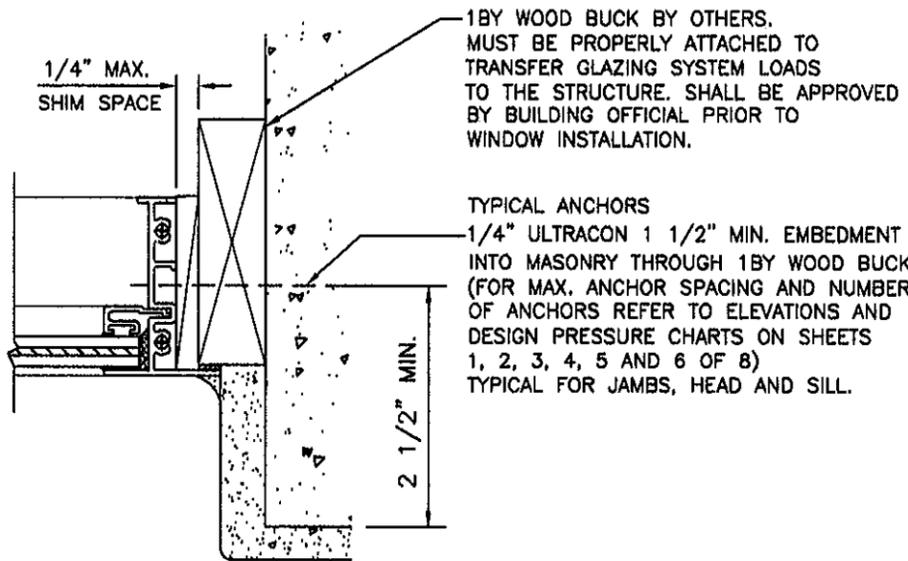
| NO | DATE     | REVISION             |
|----|----------|----------------------|
| 1  | 03-06-12 | UPDATED FOR 2010 FBC |
|    |          |                      |
|    |          |                      |

DRAWING No.  
PW08-01

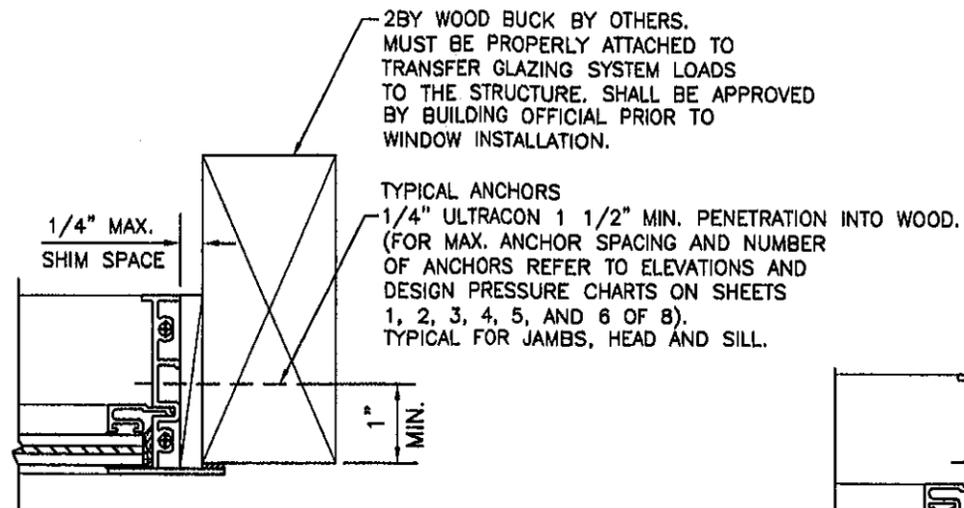
DATE: 08-18-08

SCALE: 1/2"=1"

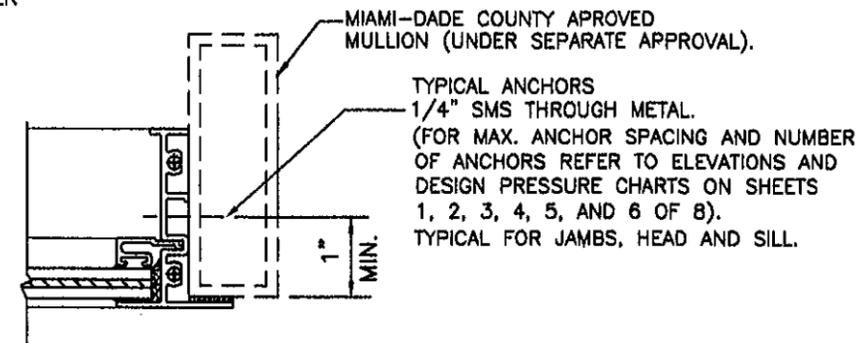
SHEET 6 OF 8



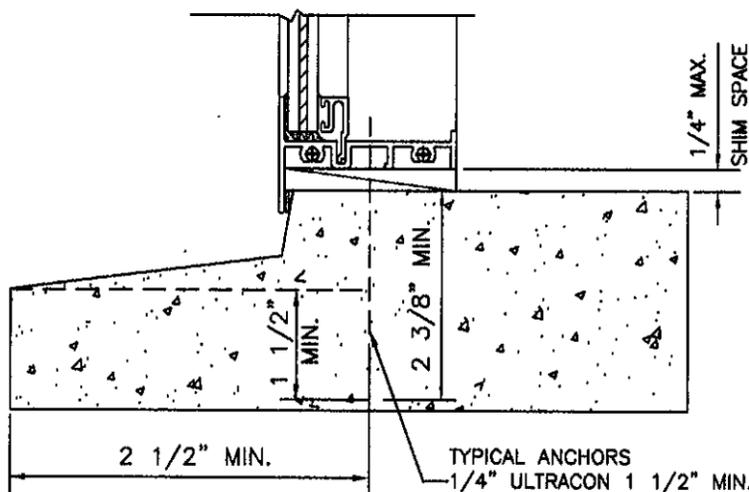
ATTACHMENT TO MASONRY



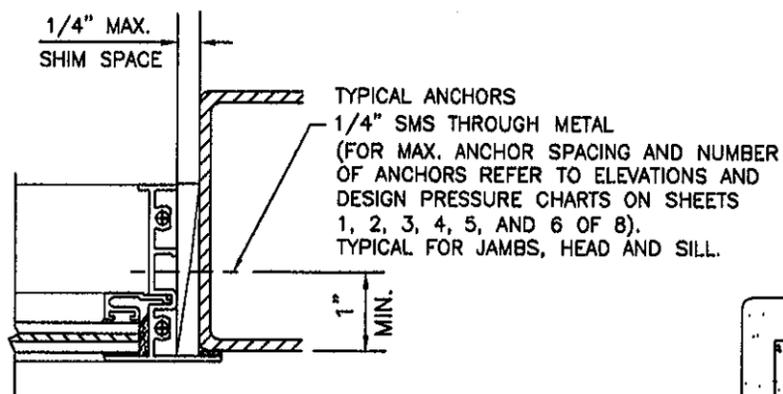
ATTACHMENT TO WOOD



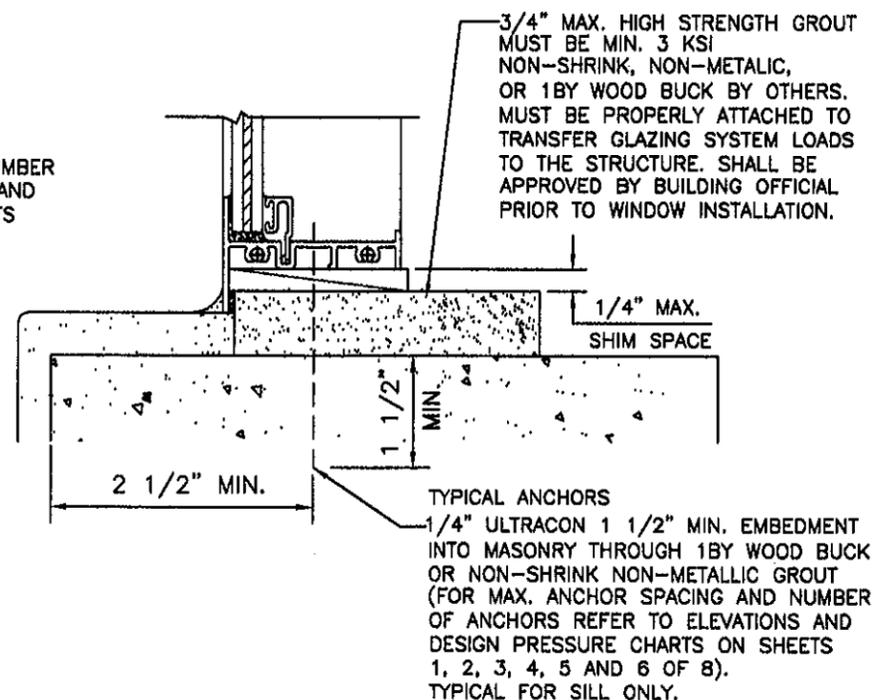
ATTACHMENT TO MULLION DETAIL



ATTACHMENT TO PRE-CAST SILL



ATTACHMENT TO METAL STRUCTURE  
(STEEL OR ALUMINUM 1/8" MIN. THICKNESS)

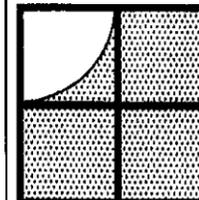


ATTACHMENT TO MASONRY

TYPICAL SECTIONS

PRODUCT REVISED  
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Acceptance No 12-0314.11  
Expiration Date ~~SEPT. 11, 2013~~  
By *Manuel Perez*  
Miami Dade Product Control

*FH*  
3-9-12  
FRANCISCO HERNANDEZ  
FLORIDA PE # 51393

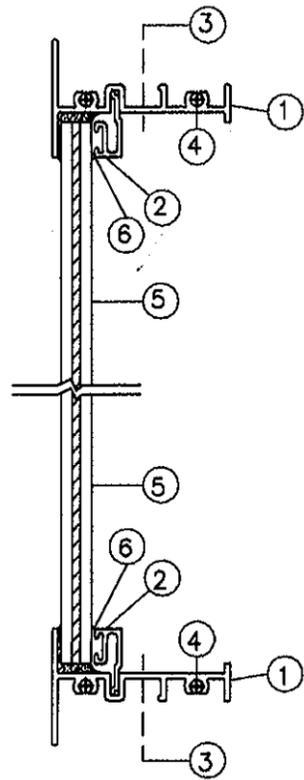


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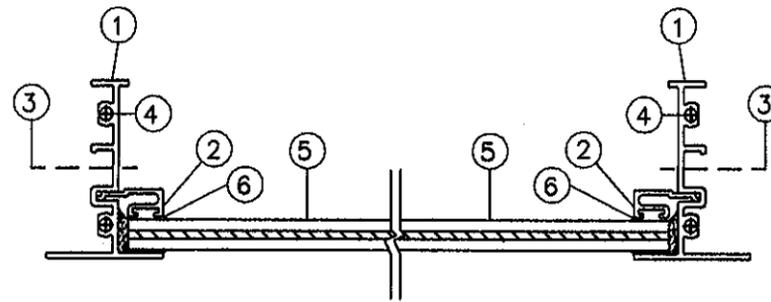
SERIES 4302 ALUMINUM  
FIXED WINDOW  
IMPACT RESISTANT GLASS

| No | DATE     | REVISION             |
|----|----------|----------------------|
| 1  | 03-06-12 | NO CHANGE THIS SHEET |

DRAWING No.  
PW08-01  
DATE: 08-18-08  
SCALE: 1/2"=1"  
SHEET 7 OF 8

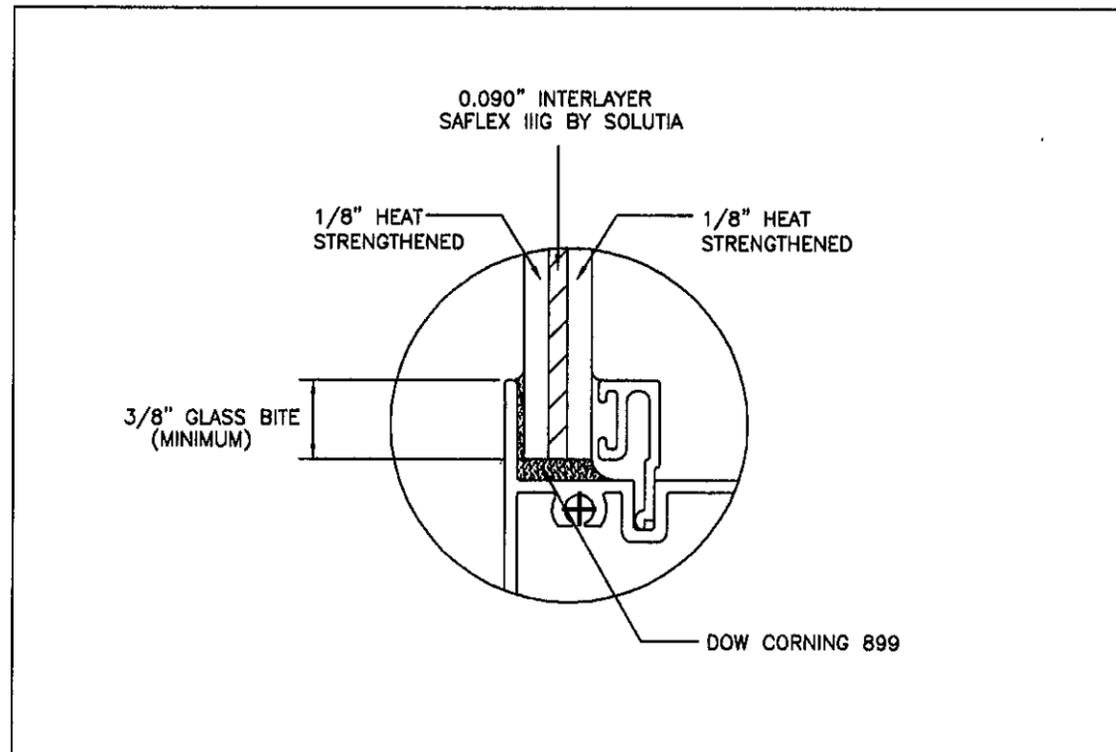


SECTION A - A



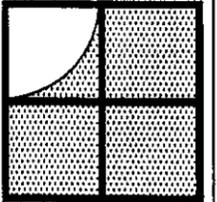
SECTION B - B

GLAZING DETAIL



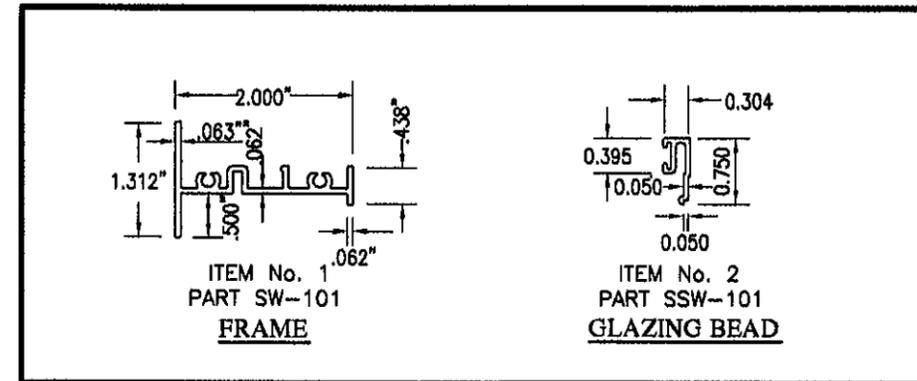
MATERIAL LIST

| ITEM # | PART                            | DESCRIPTION                | MATERIAL        |
|--------|---------------------------------|----------------------------|-----------------|
| 1      | SW-101                          | HEAD, SILL AND JAMB        | 6063-T6         |
| 2      | SSW-101                         | GLAZING BEAD               | 6063-T6         |
| 3      | ANCHORS                         | SEE ELEVATION SHEETS       |                 |
| 4      | # 8" X 1" PH S.M.S              | ASSEMBLY SCREW             |                 |
| 5      | .340" LAMINATED GLASS/HEAT STR. | SEE GLAZING DETAIL SHEET 8 |                 |
| 6      | -                               | STRUCTURAL SILICONE        | DOW CORNING 899 |



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SERIES 4302 ALUMINUM  
 FIXED WINDOW  
 IMPACT RESISTANT GLASS



PRODUCT REVISED  
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 By *Francisco Hernandez*  
 Miami Dade Product Control

*Francisco Hernandez*  
 2-9-12  
 FRANCISCO HERNANDEZ  
 FLORIDA PE # 51393

| NO | DATE     | REVISION             |
|----|----------|----------------------|
| 1  | 03-06-12 | NO CHANGE THIS SHEET |

DRAWING No.  
 PW08-01  
 DATE: 08-18-08  
 SCALE: 1/2"=1"  
 SHEET 8 OF 8