

**OFFICIAL DOCUMENTS**  
**NOT TO BE REMOVED**  
**Sarasota County Planning**  
**& Development Services**

Customer:

Betty Prince  
26121 Webber Street  
Sarasota FL 34239

**16144104 BI**

Contract #:

941-366-5808

Color:

Date:

6/27/10

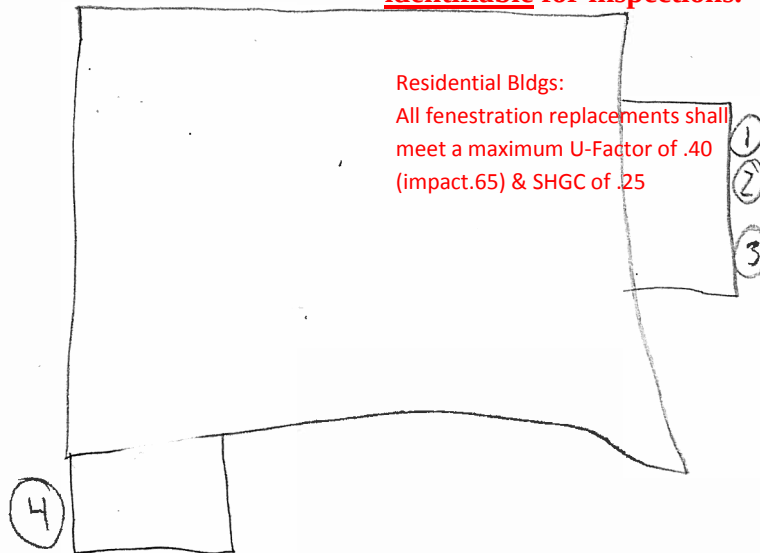
**Criteria Data**

Mean Roof Height: \_\_\_\_\_  
 Exposure: \_\_\_\_\_  
 Roof Slope: \_\_\_\_\_  
 Elevation: \_\_\_\_\_  
 End Zone: \_\_\_\_\_  
 WIND CHART \_\_\_\_\_  
 Design Loads \_\_\_\_\_  
 Positive \_\_\_\_\_  
 Negative Int. Zone: \_\_\_\_\_  
 Negative End Zone: \_\_\_\_\_

**Shutter Schedule**

| #  | Width  | Height | Zone | Product | Anchor | #  | Width | Height | Zone | Product | Anchor |
|----|--------|--------|------|---------|--------|----|-------|--------|------|---------|--------|
| 1  | 51 3/4 | 72 5/8 |      | SH      |        | 11 |       |        |      |         |        |
| 2  | 51 3/4 | 72 5/8 |      | SH      |        | 12 |       |        |      |         |        |
| 3  | 51 3/4 | 72 5/8 |      | SH      |        | 13 |       |        |      |         |        |
| 4  | 72 3/4 | 37     |      | HR      |        | 14 |       |        |      |         |        |
| 5  |        |        |      |         |        | 15 |       |        |      |         |        |
| 6  |        |        |      |         |        | 16 |       |        |      |         |        |
| 7  |        |        |      |         |        | 17 |       |        |      |         |        |
| 8  |        |        |      |         |        | 18 |       |        |      |         |        |
| 9  |        |        |      |         |        | 19 |       |        |      |         |        |
| 10 |        |        |      |         |        | 20 |       |        |      |         |        |

**Site specific installation details  
 are to be highlighted or easily  
 identifiable for inspections.**



Residential Bldgs:  
 All fenestration replacements shall  
 meet a maximum U-Factor of .40  
 (impact.65) & SHGC of .25

|   | ↔   | ↕  |
|---|-----|----|
| 1 | 114 | 80 |
| 2 |     |    |
| 3 | 59  | 80 |
| 4 | 81  | 42 |

**REVIEWED FOR CODE  
 COMPLIANCE**

**TK 09-13-16  
 NON-IMPACT WITH SCREEN PROTECTION**



**Product Approval**  
USER: Public User

**OFFICIAL DOCUMENTS**  
**NOT TO BE REMOVED**  
**Sarasota County Planning**  
**& Development Services**

OFFICE OF THE  
SECRETARY

Product Approval Menu > Product or Application Search > Application List > Application Detail

FL #  
Application Type  
Code Version  
Application Status

FL17234-R3

Revision

2014

Approved

\*Approved by DBPR. Approvals by DBPR shall be reviewed and ratified by the POC and/or the Commission if necessary.

Comments

Archived

Product Manufacturer  
Address/Phone/Email

Custom Window Systems Inc.  
1900 SW 44th Avenue  
Ocala, FL 34474  
(352) 368-6922 Ext 255  
sbrooks@cws.cc

Authorized Signature

Stephen Brooks  
sbrooks@cws.cc

Technical Representative  
Address/Phone/Email

Erin Koss  
1900 SW 44th Ave.  
Ocala, FL 34474  
(352) 368-6922 Ext 291  
ekoss@cws.cc

Quality Assurance Representative  
Address/Phone/Email

Jay Lathrop  
1900 SW 44th Ave.  
Ocala, FL 34474  
(352) 368-6922 Ext 291  
jlathrop@cws.cc

Category  
Subcategory

Windows  
Single Hung

Compliance Method

Certification Mark or Listing

Certification Agency  
Validated By

Keystone Certifications, Inc.  
Steven M. Ulrich, PE

☒ Validation Checklist - Hardcopy Received

Referenced Standard and Year (of Standard)

**Standard**  
AAMA/WDMA/CSA/101/1.S.2/A440  
ASTM E1300

**Year**  
2008  
2004

Equivalence of Product Standards  
Certified By

Product Approval Method

Method 1 Option A

Date Submitted 02/29/2016  
Date Validated 02/29/2016  
Date Pending FBC Approval  
Date Approved 03/03/2016

#### Summary of Products

| FL #                                                                                                                                                                                                                                                                                                                    | Model, Number or Name    | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 17234.1                                                                                                                                                                                                                                                                                                                 | SH-610 Vinyl Single Hung | SH-610 Vinyl Single Hung, Non-Impact, 53 1/8" x 76"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Limits of Use</b><br><b>Approved for use in HVHZ:</b> No<br><b>Approved for use outside HVHZ:</b> Yes<br><b>Impact Resistant:</b> No<br><b>Design Pressure:</b> +50/-50<br><b>Other:</b> SH-610 Equal Split or Oriel, Max. size 53 1/8" x 76",<br>Fin, Flange, DP +50/-50 PSF. Glass complies with ASTM<br>E1300-04. |                          | <b>Certification Agency Certificate</b><br><a href="#">FL17234_R3_C_CAC_CAR_138-1305.pdf</a><br><a href="#">FL17234_R3_C_CAC_CAR_138-1306.pdf</a><br><a href="#">FL17234_R3_C_CAC_CAR_138-1379.pdf</a><br><b>Quality Assurance Contract Expiration Date</b><br>08/15/2018<br><b>Installation Instructions</b><br><a href="#">FL17234_R3_IF_CWS-935C (SH-610, NI).pdf</a><br>Verified By: Lucas A. Turner PE-58201<br>Created by Independent Third Party: Yes<br><b>Evaluation Reports</b><br><a href="#">FL17234_R3_AE_EvalRep_CWS-935C (SH-610, NI).pdf</a><br>Created by Independent Third Party: Yes |

[Back](#)

[Next](#)

Contact Us :: 2601 Blair Stone Road, Tallahassee FL 32399 Phone: 850-487-1824

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Product Approval Accepts:



Credit Card  
**Safe**

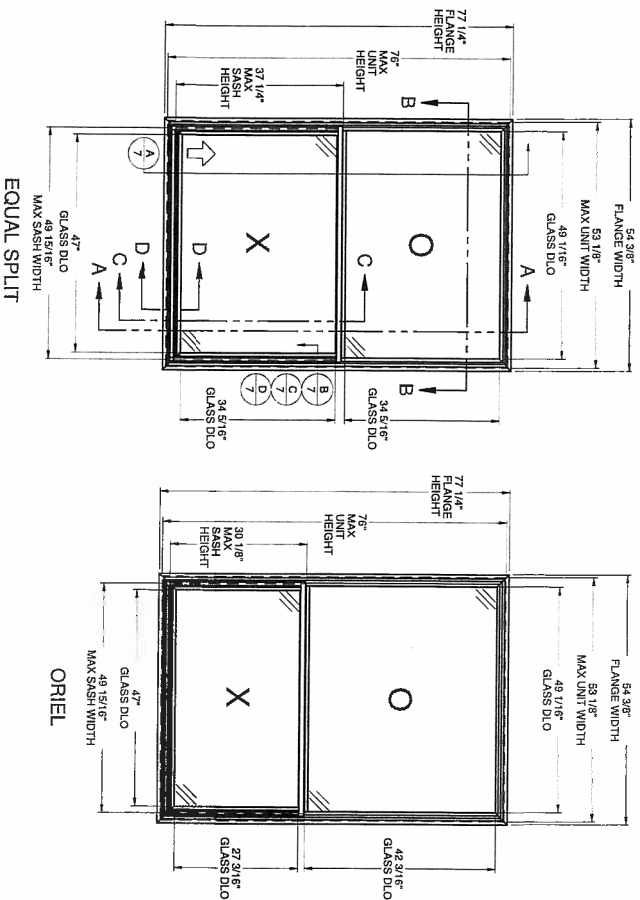
SECURITY METRICS

(SHOWN W/DIFFERENT OPTIONS)

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE FLORIDA BUILDING CODE (FBC), CURRENT EDITION.
2. GLAZING OPTIONS: (SEE SHEET 3)
3. CONFIGURATIONS: "O.X".

4. DESIGN PRESSURE HAVING (SEE SHEET 7)
5. WIND SPEED HAVING (SEE SHEET 8)
6. CLASSIFICATION HAVING (SEE SHEET 9)
7. POSITIVE DESIGN LOADS BASED ON TESTED PRESSURE, WATER PENETRATION TEST PRESSURE AND GLASS TABLES ASTM E-1300-04.
8. ANCHORAGE: THE 33-1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. SEE SHEET 7 FOR ANCHOR DETAILS, WINDLOAD DURATION FACTOR C<sub>d</sub>=1.8 WAS USED FOR WOOD ANCHOR CALCULATIONS.
9. NOT APPROVED FOR IMPACT RESISTANCE, IMPACT PROTECTIVE SYSTEM IS REQUIRED IN WIND BORNE DEBRIS REGION.
10. ALL FRAMES AND VENTS FULLY WELDED, SMAL JOINT SEAMS BECAUSE USED AT FIXED MEETING RAIL AND JAMB.
11. 6 SERIES / MODEL DESIGNATION SH 610.
12. THE DESIGNATION X AND O STAND FOR THE FOLLOWING:  
X = OPERABLE SASH, O = FIXED SASH
13. SECTION CALLOUTS APPLY TO ALL ELEVATIONS IN A SIMILAR LOCATION.
14. EXTERNAL VEEF SLOT = 1/4 x 1-1/2" LOCATED 5" FROM BOTH ENDS.



Lucas A. Turner  
2016-02-23  
09:29-05:00

| TABLE OF CONTENTS               |   |
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| GENERAL NOTES & ELEVATIONS..... | 1 |
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| CONFIG.    | MAX. UNIT SIZE | EXTERNAL REINFORCEMENT | DESIGN PRESSURE RATING                  | IMPACT RATING |
|------------|----------------|------------------------|-----------------------------------------|---------------|
| EQUAL      | 37" x 76"      | NONE                   | SEE COMPARATIVE ANALYSIS CHART, SHEET 2 | NONE          |
| EQUAL      |                |                        |                                         |               |
| 5 HI ORIEL | 53-1/8" x 76"  | * 2011                 |                                         |               |

\* ONLY REQUIRED WITH H-6137 FIXED MEETING RAIL & SCREW-ON INTERLOCK, S-2001 - SEE SHEET 4 FOR DETAILS.

**610 PVC  
SINGLE HUNG  
NON-IMPACT**

|           |                      |     |          |
|-----------|----------------------|-----|----------|
|           |                      |     |          |
|           |                      |     |          |
|           |                      |     |          |
| C         | ADDED ORIEL          | EMK | 02/10/16 |
| B         | NEW MTG RAIL & SILL  | EMK | 12/17/15 |
| A         | UPDATED PER 2014 FBC | EMK | 03/17/15 |
| NO.:      | DESCRIPTION:         | BY: | DATE:    |
| REVISIONS |                      |     |          |

**Custom®**  
WINDOW SYSTEMS

1900 SW 44TH AVE.  
OCALA, FLORIDA 34474  
WWW.CWS.CO

LUCAS A. TURNER, P.E.  
FL PE # 58201  
1239 JABARA AVE.  
NORTH PORT, FL 34288  
PH. 941-380-1574

GENERAL NOTES AND ELEVATIONS

|           |          |
|-----------|----------|
| DATE:     | 08/09/14 |
| DRAWN BY: | ADE      |
| REV:      |          |

|         |   |
|---------|---|
| CWS-935 | C |
|---------|---|

SCALE: 1:20  
SHEET 1 OF 7

| Design Pressures (PSF) for Equal Split Configuration with Glass Types A, B, C, or D |                   |             |             |             |             |             |             |             |             |             |             |  |  |  |  |  |
|-------------------------------------------------------------------------------------|-------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--|--|--|--|--|
| Unit                                                                                | Unit Widths (in.) |             |             |             |             |             |             |             |             |             |             |  |  |  |  |  |
| Heights (in.)                                                                       | 23 1/2            | 27 1/2      | 29 1/2      | 31 1/2      | 35 1/2      | 39 1/2      | 41 1/2      | 43 1/2      | 47 1/2      | 51 1/2      | 53 1/8      |  |  |  |  |  |
| 35 1/2                                                                              | +50.0/-75.0       | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 |  |  |  |  |  |
| 39 1/2                                                                              | +50.0/-75.0       | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 |  |  |  |  |  |
| 41 1/2                                                                              | +50.0/-75.0       | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 |  |  |  |  |  |
| 43 1/2                                                                              | +50.0/-75.0       | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 |  |  |  |  |  |
| 47 1/2                                                                              | +50.0/-75.0       | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 |  |  |  |  |  |
| 51 1/2                                                                              | +50.0/-75.0       | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 |  |  |  |  |  |
| 53 1/2                                                                              | +50.0/-75.0       | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 |  |  |  |  |  |
| 55 1/2                                                                              | +50.0/-75.0       | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 |  |  |  |  |  |
| 59 1/2                                                                              | +50.0/-75.0       | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 |  |  |  |  |  |
| 63 1/2                                                                              | +50.0/-75.0       | +50.0/-72.9 | +50.0/-72.0 | +50.0/-71.6 | +50.0/-71.6 | +50.0/-71.6 | +50.0/-71.6 | +50.0/-71.6 | +50.0/-71.6 | +50.0/-71.6 | +50.0/-71.6 |  |  |  |  |  |
| 65 1/2                                                                              | +50.0/-73.2       | +50.0/-69.1 | +50.0/-68.0 | +50.0/-67.4 | +50.0/-67.3 | +50.0/-67.3 | +50.0/-67.3 | +50.0/-67.3 | +50.0/-67.3 | +50.0/-67.3 | +50.0/-67.3 |  |  |  |  |  |
| 67 1/2                                                                              | +50.0/-69.8       | +50.0/-65.6 | +50.0/-64.4 | +50.0/-63.7 | +50.0/-63.4 | +50.0/-63.4 | +50.0/-63.4 | +50.0/-63.4 | +50.0/-63.4 | +50.0/-63.4 | +50.0/-63.4 |  |  |  |  |  |
| 71 1/2                                                                              | +50.0/-64.0       | +50.0/-59.7 | +50.0/-58.3 | +50.0/-57.3 | +50.0/-56.5 | +50.0/-56.5 | +50.0/-56.5 | +50.0/-56.5 | +50.0/-56.5 | +50.0/-56.5 | +50.0/-56.5 |  |  |  |  |  |
| 74 3/4                                                                              | +50.0/-59.9       | +50.0/-55.6 | +50.0/-54.1 | +50.0/-53.0 | +50.0/-51.8 | +50.0/-51.7 | +50.0/-51.7 | +50.0/-51.7 | +50.0/-51.7 | +50.0/-51.7 | +50.0/-51.7 |  |  |  |  |  |
| 76                                                                                  | +50.0/-58.5       | +50.0/-54.1 | +50.0/-52.6 | +50.0/-51.5 | +50.0/-50.2 | +50.0/-50.0 | +50.0/-50.0 | +50.0/-50.0 | +50.0/-50.0 | +50.0/-50.0 | +50.0/-50.0 |  |  |  |  |  |

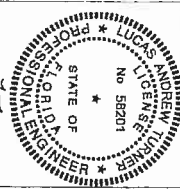
| Design Pressures (PSF) for Oriel Configuration with Glass Types A, B, C, or D in the Sash, and Glass Types C or D in the Fixed |                   |             |             |             |             |             |             |             |             |             |             |  |  |  |  |  |
|--------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--|--|--|--|--|
| Unit                                                                                                                           | Unit Widths (in.) |             |             |             |             |             |             |             |             |             |             |  |  |  |  |  |
| Heights (in.)                                                                                                                  | 23 1/2            | 27 1/2      | 29 1/2      | 31 1/2      | 35 1/2      | 39 1/2      | 41 1/2      | 43 1/2      | 47 1/2      | 51 1/2      | 53 1/8      |  |  |  |  |  |
| 35 1/2                                                                                                                         | +50.0/-75.0       | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 |  |  |  |  |  |
| 39 1/2                                                                                                                         | +50.0/-75.0       | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 |  |  |  |  |  |
| 41 1/2                                                                                                                         | +50.0/-75.0       | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 |  |  |  |  |  |
| 43 1/2                                                                                                                         | +50.0/-75.0       | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 |  |  |  |  |  |
| 47 1/2                                                                                                                         | +50.0/-75.0       | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 | +50.0/-75.0 |  |  |  |  |  |
| 51 1/2                                                                                                                         | +50.0/-68.0       | +50.0/-68.4 | +50.0/-68.4 | +50.0/-68.4 | +50.0/-68.1 | +50.0/-67.4 | +50.0/-67.4 | +50.0/-67.4 | +50.0/-67.4 | +50.0/-67.4 | +50.0/-67.4 |  |  |  |  |  |
| 53 1/2                                                                                                                         | +50.0/-64.4       | +50.0/-63.4 | +50.0/-63.4 | +50.0/-63.4 | +50.0/-62.4 | +50.0/-61.2 | +50.0/-61.1 | +50.0/-61.1 | +50.0/-61.1 | +50.0/-61.1 | +50.0/-59.5 |  |  |  |  |  |
| 55 1/2                                                                                                                         | +50.0/-60.3       | +50.0/-58.9 | +50.0/-58.9 | +50.0/-58.9 | +50.0/-57.6 | +50.0/-56.1 | +50.0/-55.7 | +50.0/-55.6 | +50.0/-55.6 | +50.0/-55.6 | +50.0/-55.6 |  |  |  |  |  |
| 59 1/2                                                                                                                         | +50.0/-53.6       | +50.0/-51.6 | +50.0/-51.3 | +50.0/-51.3 | +50.0/-51.0 | +50.0/-50.1 | +50.0/-50.1 | +50.0/-50.1 | +50.0/-50.1 | +50.0/-50.1 | +50.0/-50.1 |  |  |  |  |  |
| 63 1/2                                                                                                                         | +50.0/-52.5       | +50.0/-50.4 | +50.0/-50.0 | +50.0/-50.0 | +50.0/-50.0 | +50.0/-50.0 | +50.0/-50.0 | +50.0/-50.0 | +50.0/-50.0 | +50.0/-50.0 | +50.0/-50.0 |  |  |  |  |  |
| 65 1/2                                                                                                                         | +50.0/-52.5       | +50.0/-50.4 | +50.0/-50.0 | +50.0/-50.0 | +50.0/-50.0 | +50.0/-50.0 | +50.0/-50.0 | +50.0/-50.0 | +50.0/-50.0 | +50.0/-50.0 | +50.0/-50.0 |  |  |  |  |  |
| 67 1/2                                                                                                                         | +50.0/-52.5       | +50.0/-50.4 | +50.0/-50.0 | +50.0/-50.0 | +50.0/-50.0 | +50.0/-50.0 | +50.0/-50.0 | +50.0/-50.0 | +50.0/-50.0 | +50.0/-50.0 | +50.0/-50.0 |  |  |  |  |  |
| 71 1/2                                                                                                                         | +50.0/-52.5       | +50.0/-50.4 | +50.0/-50.0 | +50.0/-50.0 | +50.0/-50.0 | +50.0/-50.0 | +50.0/-50.0 | +50.0/-50.0 | +50.0/-50.0 | +50.0/-50.0 | +50.0/-50.0 |  |  |  |  |  |
| 74 3/4                                                                                                                         | +50.0/-52.5       | +50.0/-50.4 | +50.0/-50.0 | +50.0/-50.0 | +50.0/-50.0 | +50.0/-50.0 | +50.0/-50.0 | +50.0/-50.0 | +50.0/-50.0 | +50.0/-50.0 | +50.0/-50.0 |  |  |  |  |  |
| 76                                                                                                                             | +50.0/-52.5       | +50.0/-50.4 | +50.0/-50.0 | +50.0/-50.0 | +50.0/-50.0 | +50.0/-50.0 | +50.0/-50.0 | +50.0/-50.0 | +50.0/-50.0 | +50.0/-50.0 | +50.0/-50.0 |  |  |  |  |  |

NOTE:  
IF SIZE INTENDED IS NOT SHOWN, USE NEXT LARGER SIZE.



610 PVC  
SINGLE HUNG  
NON-IMPACT

| NO. | DESCRIPTION:         | BY: | DATE:    |
|-----|----------------------|-----|----------|
| C   | ADDED ORIEL          | EMK | 02/10/16 |
| B   | NEW MTG RAIL & SILL  | EMK | 12/17/15 |
| A   | UPDATED PER 2014 FBC | EMK | 03/17/15 |



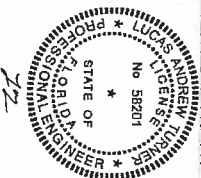
2/23/2016  
LUCAS A. TURNER, P.E.  
1205 JOHNS AVE.  
NORFOLK, VA 23502-1374  
PH. 941-380-1574

SHEET DESCRIPTION:  
DESIGN PRESSURE CHARTS  
DRAWN BY: ADE  
DATE: 08/09/14  
DWG #: CWS-935  
REV: C  
SCALE: 1:1  
SHEET 2 OF 7

**Custom**  
WINDOW SYSTEMS  
1900 SW 44TH AVE.  
OCALA, FLORIDA 34474  
WWW.CWS.CO

**610 PVC  
SINGLE HUNG  
NON-IMPACT**

|           |                      |     |          |
|-----------|----------------------|-----|----------|
|           |                      |     |          |
|           |                      |     |          |
|           |                      |     |          |
|           |                      |     |          |
| C         | ADDED ORIEL          | EMK | 02/10/16 |
| B         | NEW MTG RAIL & SILL  | EMK | 12/17/15 |
| A         | UPDATED PER 2014 FBC | EMK | 03/17/15 |
| NO.:      | DESCRIPTION:         | BY: | DATE:    |
| REVISIONS |                      |     |          |

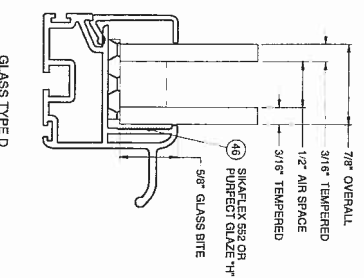


LUCAS A. TURNER, P.E.  
FL PE # 58201  
1239 JABARA AVE.  
NORTH PORT, FL 34288  
PH. 941-380-1574

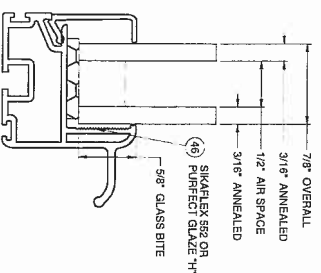
**SHEET DESCRIPTION**

## GLAZING DETAILS

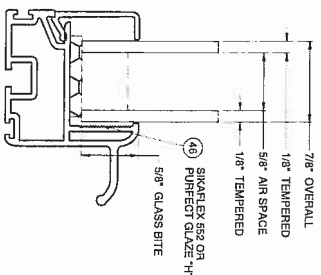
|           |          |
|-----------|----------|
| DRAWN BY: | DATE:    |
| ADE       | 08/09/14 |
| DWG #:    | REV.:    |
| CWS-935   | C        |
| SCALE:    | SHEET    |
| 1:1       | 3 OF 7   |



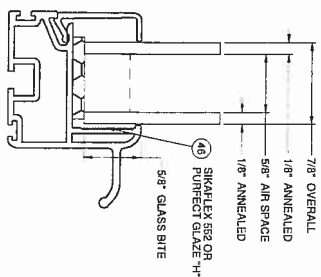
GLASS TYPE D



GLASS TYPE C



GLASS TYPE B

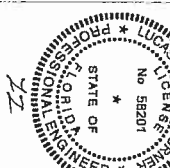


GLASS TYPE A

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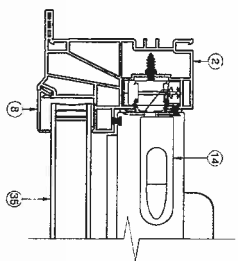
**610 PVC  
SINGLE HUNG  
NON-IMPACT**

| REVISIONS |                      |     |          |
|-----------|----------------------|-----|----------|
| NO.       | DESCRIPTION:         | BY: | DATE:    |
| C         | ADDED ORIEL          | EMK | 02/10/16 |
| B         | NEW MTG RAIL & SILL  | EMK | 12/17/15 |
| A         | UPDATED PER 2014 FBC | EMK | 03/17/15 |



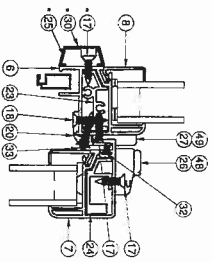
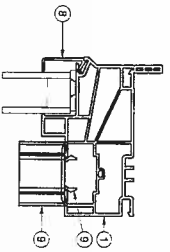
2/23/2016  
LUCAS A. TURNER, P.E.  
E.L. PE # 55901  
1329 JABARA AVE.  
NORTH PORT, FL 34288  
PH. 941-380-1574

| SECTION DESCRIPTION |          |       |      |
|---------------------|----------|-------|------|
| SECTION VIEWS       |          |       |      |
| DRAWN BY:           | DATE:    | DATE: | REV: |
| ADE                 | 08/09/14 |       |      |
| DWG #               |          |       |      |
| CWS-935             |          |       |      |
| SCALE               |          |       |      |
| 1:2                 |          |       |      |
| SHEET               |          |       |      |
| 4 OF 7              |          |       |      |

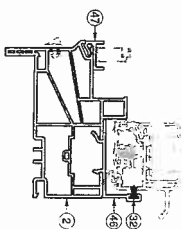


SECTION B-B

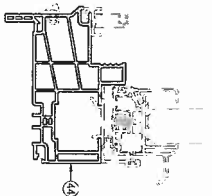
NOTE: LEFT SIDE SHOWS FIXED SECTION VIEW,  
RIGHT SIDE SHOWS SASH SECTION VIEW.



INTERIOR



SECTION C-C  
ALTERNATE HD MEETING RAIL  
AND UNI-FRAME

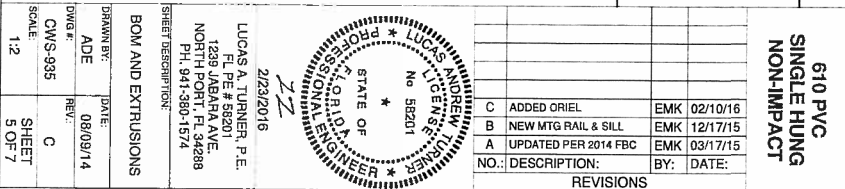


SECTION D-D  
DEEP POCKET UNI-FRAME

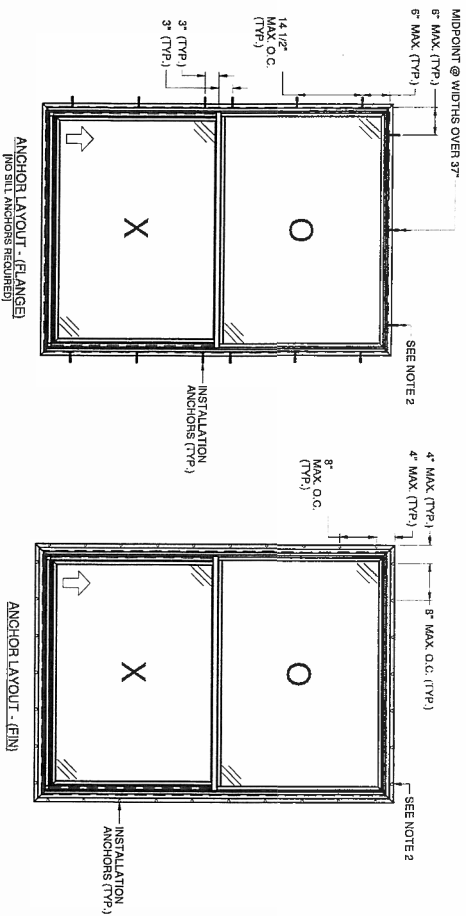
NOTES:  
• FIN FRAME AVAILABLE FOR BOTH UNI-FRAME  
AND STANDARD FRAME TYPES.  
• 880 BALANCERS AND DEEP POCKET UNI-FRAME  
(H&I 883) REQUIRED FOR LARGER SASHES. (NOT  
SHOWN IN SECTION B-B)  
• EXTERIOR FINISHES AND BALANCERS NOT REQUIRED ON  
UNIT WIDTHS OVER 37" WITH THE H&I 883  
S-2001.  
FIXED MEETING RAIL AND SCREW-ON INTERLOCK.

NOTE: ITEMS NOT SHOWN FOR CLARITY: 38-41

NOTE: ALL EXTRUSIONS ARE ALUM. 6063-T6 UNLESS OTHERWISE NOTED







# NOTES:

1. INSTALL ONE ANCHOR AT EACH INSTALLATION LOCATION. SILL ANCHOR SPACING SAME AS HEAD.
2. SHIM AS REQ AT EACH INSTALLATION ANCHOR USING LOAD BEARING SHIMS. MAX. ALLOWABLE SHIM STACK TO BE 1/4". USE SHIMS WHERE SPACE GREATER THAN 1/16" IS PRESENT. LOAD BEARING SHIMS SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER. WOOD SHIMS ARE NOT ALLOWED.
3. ANCHOR TYPE, SIZE, SPACING AND EMBEDMENT SHALL BE AS SPECIFIED IN THESE DRAWINGS. SEE TABLE 1, SHEET 7.
4. ALL INSTALLATION ANCHORS MUST BE MADE OF OR PROTECTED WITH A CORROSION RESISTANT MATERIAL OR COATING. DISSIMILAR METALS OR MATERIALS IN CONTACT WITH PRESSURE TREATED WOOD MUST BE PROTECTED TO PREVENT REACTION.
5. INSTALLATION ANCHORS SHALL BE IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS. AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM SPECIFIED IN TABLE 1, SHEET 7.
6. ANCHOR EMBEDMENT TO SUBSTRATE SHALL BE BEYOND WALL DRESSING OR STUCCO. FOR CONCRETE/CMU OPENINGS, EMBEDMENT SHALL BE BEYOND WOOD BUCKS. IF USED, INTO SUBSTRATE - 1X BUCKS ARE OPTIONAL.
7. A MINIMUM CENTER-TO-CENTER SPACING SHALL BE MAINTAINED BETWEEN ALL FASTENERS: 3" FOR MASONRY, 1" FOR WOOD AND METAL.
8. WOOD OR MASONRY OPENINGS, BUCKS AND BUCK FASTENERS SHALL BE PROPERLY DESIGNED BY THE ARCHITECT OR ENGINEER OF RECORD AND INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE. SUBSTRATES SHALL MEET THE MINIMUM STRENGTH REQUIREMENTS AS SHOWN IN TABLE 1, SHEET 7. CONCRETE AND MASONRY SUBSTRATES MAY NOT BE CRACKED.
9. SEALING AND FLASHING STRATEGIES FOR OVERALL WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS FOLLOWING THE CURRENT VERSION OF THE REFERENCE DOCUMENTS: FMAA/MMA 100(FIN WINDOWS), FMAA/MMA 200(FLANGE WINDOWS), FMAA/MMA 250(BOX WINDOWS), FMAA/MMA/MMA 300(EXTENSION DOORS).

## 610 PVC SINGLE HUNG NON-IMPACT

**Custom**  
WINDOW SYSTEMS  
1900 SW 44TH AVE.  
OCALA, FLORIDA 34474  
WWW.CWS.CO

| NO. | DESCRIPTION:         | BY: | DATE:    |
|-----|----------------------|-----|----------|
| C   | ADDED ORIEL          | EMK | 02/10/16 |
| B   | NEW MTG RAIL & SILL  | EMK | 12/17/15 |
| A   | UPDATED PER 2014 FBC | EMK | 03/17/15 |



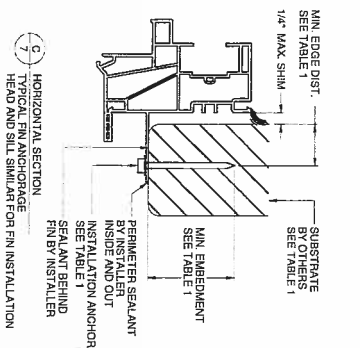
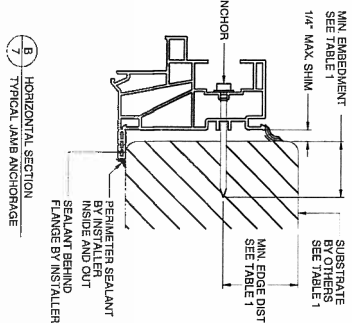
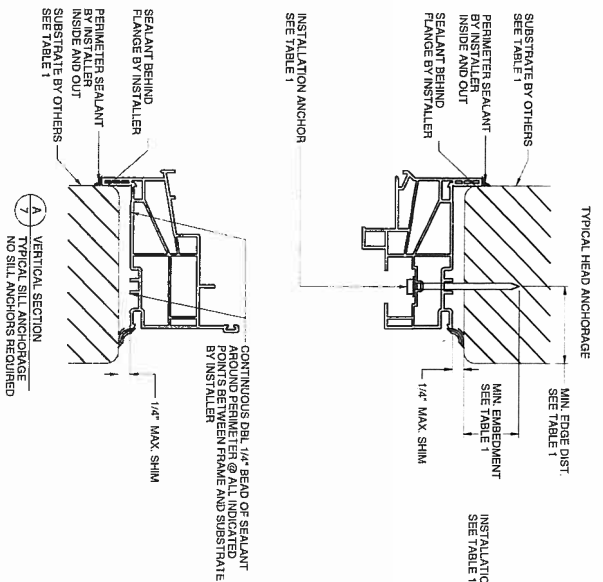
LUCAS A. TURNER, P.E.  
FL PE # 58201  
1239 JAGARA AVE.  
NORTH PORT, FL 34288  
PH. 941-380-1574

2/23/2016

2/23/2016

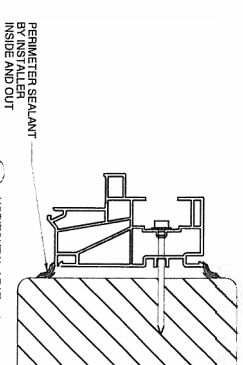
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ANCHOR SCHEDULE AND  
NOTES

| DRAWN BY: | DATE:    |
|-----------|----------|
| ADE       | 08/09/14 |
| REV:      |          |
| CMS-935   | C        |
| SCALE:    | SHEET    |
| 1:20      | 6 OF 7   |



**TABLE 1: APPROVED INSTALLATION FASTENERS**

| FRAME TYPE | SUBSTRATE TYPE                                        | ANCHOR TYPE                                                                         | MIN. EMBEDMENT                      | MIN. EDGE DIST. |
|------------|-------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------|-----------------|
| FLANGE     | CONCRETE (2.0 KSI MIN.)                               | 3/16" TIV TAPCON                                                                    | 1"                                  | 1-1/8"          |
| FLANGE     | HOLLOW OR GROUT-FILLED CMU (117 PCF MIN.)             | 3/16" TIV TAPCON                                                                    | 1"                                  | 2"              |
| FLANGE     | CONCRETE (2.5 KSI MIN.)                               | 3/16" ELCO ULTRACON                                                                 | 1"                                  | 1"              |
| FLANGE     | GROUT-FILLED CMU (ASTM C-90)                          | 3/16" ELCO ULTRACON                                                                 | 1-1/4"                              | 2-1/2"          |
| FLANGE     | 2X MIN. SOUTHERN PINE (G=0.55)                        | 3/16" TIV TAPCON                                                                    | 1-3/8"                              | 7/8"            |
| FLANGE     | 2X MIN. SOUTHERN PINE (G=0.55)                        | OR ELCO ULTRACON                                                                    | 1-3/8"                              | 7/8"            |
| FLANGE     | 16 GAUGE (0.0607 MIN. STEEL STUD (33 KSI YIELD MIN.)  | #10 WOOD SCREW                                                                      | 1-3/8"                              | 7/8"            |
| FLANGE     | 1/8" ALUM. (6063-T5 MIN.) OR 1/8" STEEL (33 KSI MIN.) | #10-16 HILLT KWIK-FLEX OR TIV TERS SELF-DRILLING SCREW / FULL THREAD DRILLING SCREW | FULL THREAD THRU 0.060" THRU 0.125" | 7/16"           |
| FIN        | 2X MIN. SOUTHERN PINE (G=0.55)                        | #10 WOOD SCREW                                                                      | 1-1/2"                              | 1/2"            |



**FLANGE REMOVAL NOTE:** PARTIALLY OR FULLY REMOVING THE FLANGE, UP TO AND INCLUDING A BOX-FRAME APPLICATION IS ACCEPTABLE PROVIDED:

- MIN. 1/4" FILLET OF CONSTRUCTION-GRADE ADHESIVE CAULK IS APPLIED INSIDE AND OUT, FULL PERIMETER, BY INSTALLER.
- PROTECT FINISH SURFACES IN ACCORDANCE WITH REQUIREMENTS AS SHOWN FOR FLANGE WINDOWS.

**INSTALLATION DETAILS**

DRWN BY: DATE: 2/23/2016 08/09/14

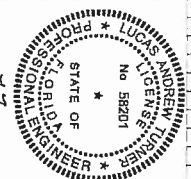
WVG #: ADE

REV: C

CWS-995

SCALE: 1/2"

SHEET 7 OF 7



**REVISIONS**

| NO. | DESCRIPTION          | BY: | DATE:    |
|-----|----------------------|-----|----------|
| C   | ADDED ORIEL          | EMK | 02/10/16 |
| B   | NEW MTG RAIL & SILL  | EMK | 12/17/15 |
| A   | UPDATED PER 2014 FBC | EMK | 03/17/15 |

**Custom Window Systems**

1000 SW 44TH AVE.  
SUITE 400  
MIAMI, FL 33144  
WWW.CWS.CO

**610 PVC SINGLE HUNG NON-IMPACT**

# TURNER

ENGINEERING &  
CONSULTING, INC.

1239 Jabara Ave.  
North Port, FL 34288  
Ph. 941-380-1574  
FBPE C.O.A. #29779

## Evaluation Report 935C February 23, 2016

**Product Description:** Series 610 Vinyl Single Hung Window, Non Impact

**Manufacturer:** Custom Window Systems, Inc. 1900 SW 44<sup>th</sup> Ave, Ocala, FL 34474

**Statement of Compliance:** This report evaluates the above-listed product per the requirements of FAC Product Approval Rule Chapter 61 G20-3.005 (4). This product complies with the requirements of the 5<sup>th</sup> Edition (2014) Florida Building Code outside the High Velocity Hurricane Zone. The product testing standards performed are outlined below.

### Technical Documentation:

- 1) This report, prepared by Lucas A. Turner, P.E., at 1239 Jabara Ave., North Port, FL
- 2) Approval drawing CWS-935C, signed and sealed by Lucas A. Turner, P.E.
- 3) Test Reports NCTL-210-3960-1A and NCTL-210-4004-09, from National Certified Testing Laboratories, Orlando, FL, and Test Report CWS-007-02-01, from PRI Construction Materials Technologies, Tampa, FL, with testing performed: AAMA/WDMA/CSA 101/1.S.2/A440-08/11
- 4) Supplemental Calculations to support CWS-935C, signed and sealed by Lucas A. Turner, P.E.

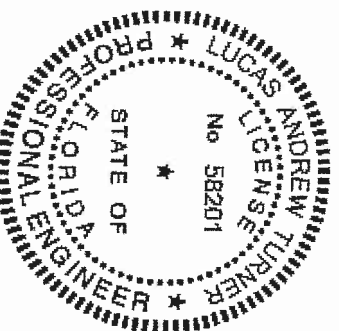
**Installation:** Units must be installed according to approval document CWS-935C.

### Limitations of Use: This product:

- May be used up to product sizes with glass daylight sizes as shown in CWS-935C
- Achieves design pressures as shown in comparative analysis tables in CWS-935C
- Is non-impact and requires the use of shutters
- May not be used in the High Velocity Hurricane Zone
- Requires glass types as shown in CWS-935C
- Requires ATN PVC frames with current listing as AAMA 303 Certified Profile Licensee

**Certification of Independence:** I do not have, nor do I intend to acquire, nor will I acquire, a financial interest in Custom Window Systems or in any company manufacturing or distributing products for which this report is being issued. I do not have, nor do I intend to acquire, nor will I acquire, a financial interest in any other entity involved in the testing or approval process of this product.

Lucas A. Turner  
2016-02-23  
09:30-05:00



2/23/2016  
Lucas A. Turner, P.E.  
FL PE #58201



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**Product Approval**  
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OFFICE OF THE  
SECRETARY

FL #

Application Type

Code Version

Application Status

FL17355-R2

Revision

2014

Approved

\*Approved by DBPR. Approvals by DBPR shall be reviewed and ratified by the POC and/or the Commission if necessary.

Comments

Archived

Product Manufacturer

Address/Phone/Email

Custom Window Systems Inc.

1900 SW 44th Avenue

Ocala, FL 34474

(352) 368-6922

ekoss@cws.cc

Authorized Signature

Koss Erin

ekoss@cws.cc

Technical Representative

Address/Phone/Email

Erin Koss

1900 SW 44th Ave.

Ocala, FL 34474

(352) 368-6922 Ext 291

ekoss@cws.cc

Quality Assurance Representative

Address/Phone/Email

Jay Lathrop

1900 SW 44th Ave.

Ocala, FL 34474

(352) 368-6922 Ext 291

jlathrop@cws.cc

Category

Subcategory

Windows

Horizontal Slider

Compliance Method

Certification Mark or Listing

Certification Agency

Validated By

Keystone Certifications, Inc.

Steven M. Ulrich, PE

✓ Validation Checklist - Hardcopy Received

Referenced Standard and Year (of Standard)

**Standard**

AAMA/WDMA/CSA 101/I.S.2/A440-08

ASTM E1300-04

**Year**

2008

2004

Equivalence of Product Standards

Certified By

Product Approval Method

Method 1 Option A

Date Submitted 06/10/2015  
 Date Validated 06/11/2015  
 Date Pending FBC Approval  
 Date Approved 06/16/2015

**Summary of Products**

| FL #                                                                                                                                                                                                                                                                                                                | Model, Number or Name              | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 17355.1                                                                                                                                                                                                                                                                                                             | HS-620 Vinyl Horizontal Slider XO  | HS-620 Vinyl Horizontal Slider, XO, Non-impact.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Limits of Use</b><br><b>Approved for use in HVHZ:</b> No<br><b>Approved for use outside HVHZ:</b> Yes<br><b>Impact Resistant:</b> No<br><b>Design Pressure:</b> N/A<br><b>Other:</b> Max. sizes: 74" x 63" and 74" x 72". See installation details for DPs. Glass complies with ASTM E1300-04.                   |                                    | <b>Certification Agency Certificate</b><br><a href="#">FL17355 R2 C CAC CAR 138-1315.pdf</a><br><a href="#">FL17355 R2 C CAC CAR 138-1316.pdf</a><br><a href="#">FL17355 R2 C CAC CAR 138-1334.pdf</a><br><b>Quality Assurance Contract Expiration Date</b><br>10/16/2018<br><b>Installation Instructions</b><br><a href="#">FL17355 R2 II CWS-1031A (HS-620, XO).pdf</a><br>Verified By: Lucas A. Turner PE-58201<br>Created by Independent Third Party: Yes<br><b>Evaluation Reports</b><br><a href="#">FL17355 R2 AE EvalRep CWS-1031A (HS-620, XO).pdf</a><br>Created by Independent Third Party: Yes                                                    |
| 17355.2                                                                                                                                                                                                                                                                                                             | HS-620 Vinyl Horizontal Slider XOX | HS-620 Vinyl Horizontal Slider, XOX, Non-impact.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Limits of Use</b><br><b>Approved for use in HVHZ:</b> No<br><b>Approved for use outside HVHZ:</b> Yes<br><b>Impact Resistant:</b> No<br><b>Design Pressure:</b> N/A<br><b>Other:</b> Max. size 111" x 63". XOX 1/3-1/3-1/3 and 1/4-1/2-1/4. See installation details for DPs. Glass complies with ASTM E1300-04. |                                    | <b>Certification Agency Certificate</b><br><a href="#">FL17355 R2 C CAC CAR 138-1341.pdf</a><br><a href="#">FL17355 R2 C CAC CAR 138-1342.pdf</a><br><b>Quality Assurance Contract Expiration Date</b><br>03/30/2019<br><b>Installation Instructions</b><br><a href="#">FL17355 R2 II CWS-1067 (HS-620, XOX).pdf</a><br>Verified By: Lucas A. Turner PE-58201<br>Created by Independent Third Party: Yes<br><b>Evaluation Reports</b><br><a href="#">FL17355 R2 AE EvalRep CWS-1067 (HS-620, XOX).pdf</a><br>Created by Independent Third Party: Yes                                                                                                         |
| 17355.3                                                                                                                                                                                                                                                                                                             | HS-620 Vinyl Horizontal Slider XX  | HS-620 Vinyl Horizontal Slider, XX, Non-Impact.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Limits of Use</b><br><b>Approved for use in HVHZ:</b> No<br><b>Approved for use outside HVHZ:</b> Yes<br><b>Impact Resistant:</b> No<br><b>Design Pressure:</b> N/A<br><b>Other:</b> Max. sizes: 74" x 63" and 74" x 72". See installation detail for DPs. Glass complies to ASTM E1300-04.                      |                                    | <b>Certification Agency Certificate</b><br><a href="#">FL17355 R2 C CAC CAR 138-1328.pdf</a><br><a href="#">FL17355 R2 C CAC CAR 138-1329.pdf</a><br><a href="#">FL17355 R2 C CAC CAR 138-1332.pdf</a><br><a href="#">FL17355 R2 C CAC CAR 138-1333.pdf</a><br><b>Quality Assurance Contract Expiration Date</b><br>12/10/2018<br><b>Installation Instructions</b><br><a href="#">FL17355 R2 II CWS-1059 (HS-620, XX).pdf</a><br>Verified By: Lucas A. Turner PE-58201<br>Created by Independent Third Party: Yes<br><b>Evaluation Reports</b><br><a href="#">FL17355 R2 AE EvalRep CWS-1059 (HS-620, XX).pdf</a><br>Created by Independent Third Party: Yes |

Back

Next

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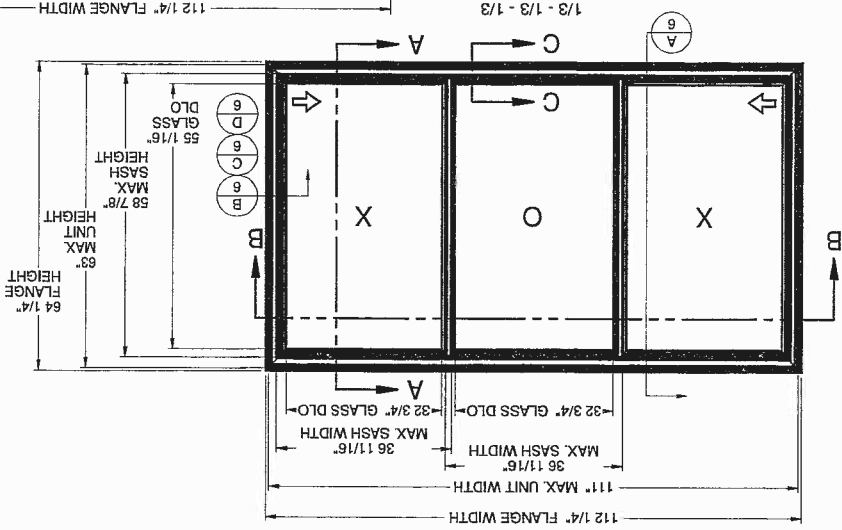
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**Product Approval Accepts:**

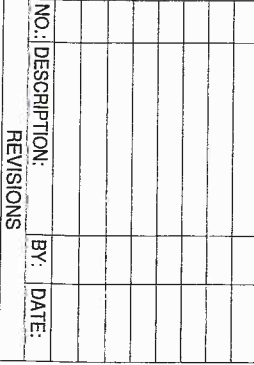
TABLE OF CONTENTS

1/4 - 1/2 - 1/4



GENERAL NOTES:

- Lucas A. Turner  
2015-06-09  
10:07-04:00



**Custom**  
WINDOW SYSTEMS

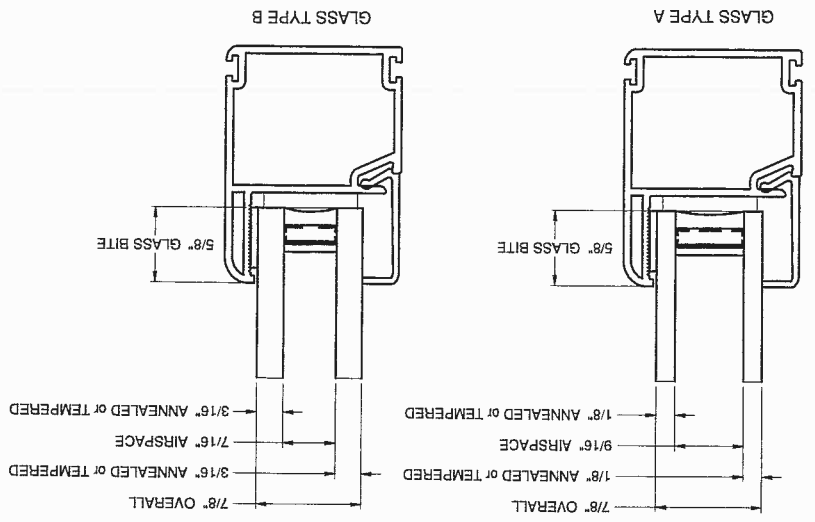
DESIGN PRESSURES FOR 1/3-1/3-1/3 CONFIGURATION WITH GLASS TYPE A OR B IN OPERABLE AND FIXED SASH

| Unit    |               | Unit Height   |               |               |               |               |               |               |               |               |               |               |               |
|---------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Width   |               | 17 1/2        | 23 1/2        | 29 1/2        | 35 1/2        | 41 1/2        | 47 1/2        | 53 1/2        | 59 1/2        | 63            |               |               |               |
| 53 1/2  | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 |
| 59 1/2  | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 |
| 65 1/2  | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 |
| 71 1/2  | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 |
| 77 1/2  | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 |
| 83 1/2  | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 |
| 89 1/2  | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 |
| 95 1/2  | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 |
| 101 1/2 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 | +50.0 / -75.0 |
| 111     | +50.0 / -69.2 | +50.0 / -57.7 | +50.0 / -52.1 | +50.0 / -50.1 | +50.0 / -50.0 | +50.0 / -50.0 | +50.0 / -50.0 | +50.0 / -50.0 | +50.0 / -50.0 | +50.0 / -50.0 | +50.0 / -50.0 | +50.0 / -50.0 | +50.0 / -50.0 |

DESIGN PRESSURES FOR 1/4-1/2-1/4 CONFIGURATION WITH GLASS TYPE A OR B IN OPERABLE SASH, GLASS TYPE B IN FIXED SASH

| Unit    |               | Unit Height   |               |               |               |               |               |               |               |               |               |               |               |
|---------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Width   |               | 17 1/2        | 23 1/2        | 29 1/2        | 35 1/2        | 41 1/2        | 47 1/2        | 53 1/2        | 59 1/2        | 63            |               |               |               |
| 53 1/2  | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 |
| 59 1/2  | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 |
| 65 1/2  | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 |
| 71 1/2  | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 |
| 77 1/2  | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 |
| 83 1/2  | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 |
| 89 1/2  | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 |
| 95 1/2  | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 |
| 101 1/2 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 | +50.0 / -67.5 |
| 111     | +50.0 / -52.1 | +46.1 / -46.1 | +45.0 / -45.0 | +45.0 / -45.0 | +45.0 / -45.0 | +45.0 / -45.0 | +45.0 / -45.0 | +45.0 / -45.0 | +45.0 / -45.0 | +45.0 / -45.0 | +45.0 / -45.0 | +45.0 / -45.0 | +45.0 / -45.0 |

NOTE: GLASS TYPE B REQUIRED FOR FIXED SASH WIDTHS LARGER THAN 36-11/16"



NOTE: IF SIZE INTENDED IS NOT SHOWN, USE NEXT LARGER SIZE.

620 PVC  
HORIZ. SLIDER  
NON-IMPACT

1900 SW 44TH AVE.  
OCALA, FLORIDA 34474  
WWW.CWS.CO

Custom WINDOW SYSTEMS

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6/8/2015

LUCAS A. TURNER, P.E.  
FL PE # 58201  
1239 JABARA AVE.  
NORTH PORT, FL 34288  
PH. 941-380-1574

SHEET DESCRIPTION:  
DP CHARTS AND  
GLAZING DETAILS

DRAWN BY:  
EMK

DATE:  
06/02/15

DWG #:  
CWS-1067

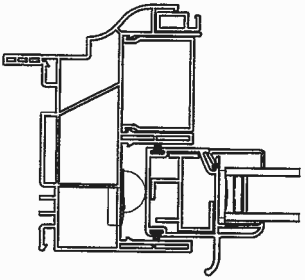
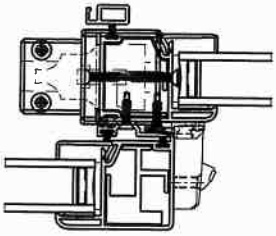
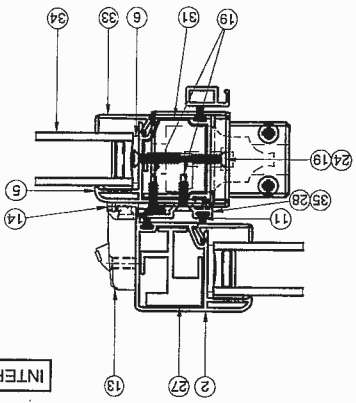
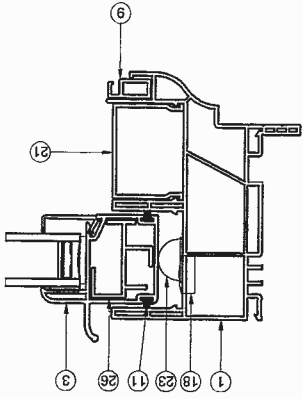
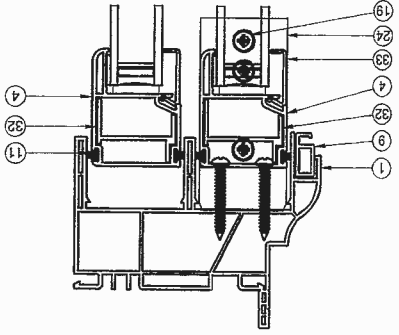
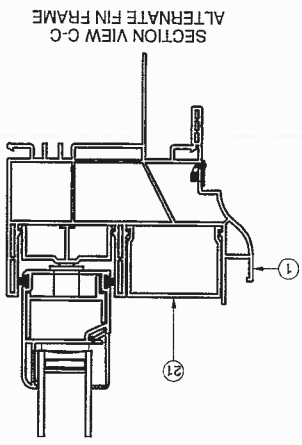
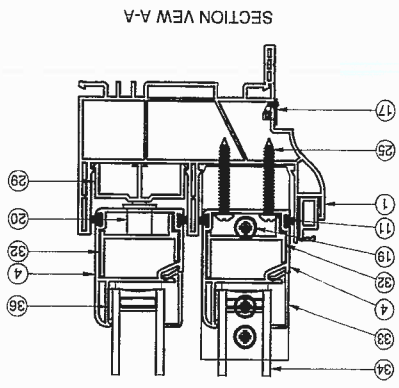
SCALE:  
1:1

SHEET  
2 OF 6

LUCAS ANDREW TURNER  
FLORIDA  
STATE OF  
No 58201  
LICENSE  
PROFESSIONAL ENGINEER

6/8/2015





INTERIOR

INTERIOR

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| SCALE: | 1:2    |
| SHEET  | 3 OF 6 |

SHEET

CWS-1067

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| DWG #: | REV: |
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|          |     |
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| 06/02/15 | EMK |
|----------|-----|

DATE: \_\_\_\_\_ DRAWN BY: \_\_\_\_\_

## SECTION VIEWS

**SHEET DESCRIPTION:**

LUCAS A. TURNER, P.E.  
FL PE # 58201  
1239 JABARA AVE.  
NORTH PORT, FL 34288  
PH. 941-380-1574

6/8/2015

Professional Engineer Seal for Lucas Andrew Turner, State of Florida, License No. 58201, Exp. 12/31/2019.

| NO.: | DESCRIPTION: |
|------|--------------|
|      |              |

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| BY: | DATE: |
|-----|-------|

## REVISIONS

**620 PVC  
HORIZ. SLIDER  
NON-IMPACT**

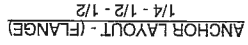
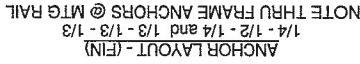
1900 SW 44TH AVE.  
OCALA, FLORIDA 34474  
WWW.CWS.CO



**Custom**  
WINDOW SYSTEMS







3. ANCHOR TYPE, SIZE, SPACING AND EMBEDMENT SHALL BE AS SPECIFIED IN THESE DRAWINGS, SEE TABLE 1, SHEET 6.

4. ALL INSTALLATION ANCHORS MUST BE MADE OF OR PROTECTED WITH A CORROSION RESISTANT MATERIAL OR COATING. DISSIMILAR METALS OR MATERIALS IN CONTACT WITH PRESSURE TREATED WOOD MUST BE PROTECTED TO PREVENT REACTION.

5. INSTALLATION ANCHORS SHALL BE IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM SPECIFIED IN TABLE 1, SHEET 6.

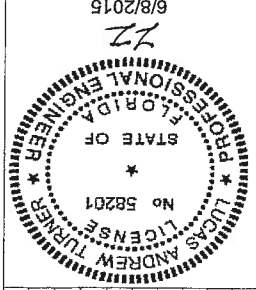
6. ANCHOR EMBEDMENT TO SUBSTRATE SHALL BE BEYOND WALL DRESSING OR STUCCO. FOR CONCRETE/CMU OPENINGS, EMBEDMENT SHALL BE BEYOND WOOD BUCKS, IF USED, INTO SUBSTRATE - 1X BUCKS ARE OPTIONAL.
7. A MINIMUM CENTER-TO-CENTER SPACING SHALL BE MAINTAINED BETWEEN ALL FASTENERS: 3-9/16" FOR MASONRY, 1" FOR WOOD AND METAL.
8. WOOD OR MASONRY OPENINGS, BUCKS AND BUCK FASTENERS SHALL BE PROPERLY DESIGNED BY THE ARCHITECT OR ENGINEER OF RECORD AND INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE. SUBSTRATES SHALL MEET THE MINIMUM STRENGTH REQUIREMENTS AS SHOWN IN TABLE 1, SHEET 6. CONCRETE AND MASONRY SUBSTRATES MAY NOT BE CRACKED.
9. SEALING AND FLASHING STRATEGIES FOR OVERALL WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS FOLLOWING THE CURRENT VERSION OF THE REFERENCE DOCUMENTS:  
FMA/AMA 100(FIN WINDOWS), FMA/AMA 200(F/LNNG WINDOWS), FMA/AMA 250(BOX WINDOWS), FMA/AMA/WDMA 300(EXTERIOR DOORS)

9. SEALING AND FLASHING STRATEGIES FOR OVERALL WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS FOLLOWING THE CURRENT VERSION OF THE REFERENCE DOCUMENTS: FMA/AAA 100/FIN WINDOWS), FMA/AAA 200/FLANGE WINDOWS), FMA/AAA 250/BOX WINDOWS), FMA/AAA/WDMA 300/EXTERIOR DOORS).

[illegible]

620 PVC  
HORIZ. SLIDER  
NON-IMPACT

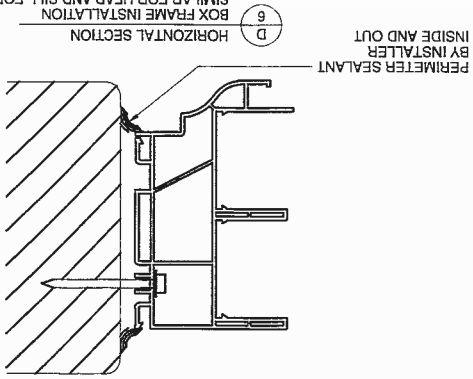
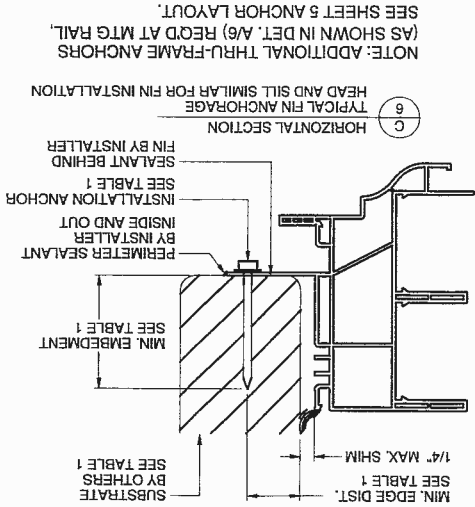
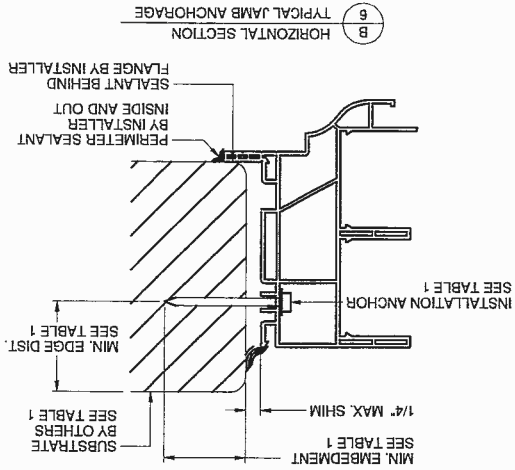
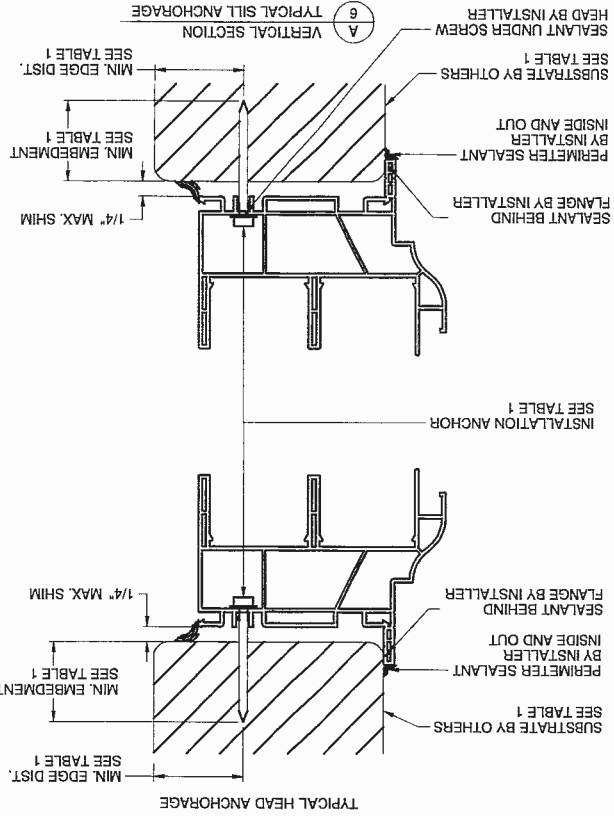
**Custom Window Systems**  
1900 SW 44TH AVE.  
OCALA, FLORIDA 34474  
WWW.CWS.CO



|                                                                                                        |                                                    |
|--------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| LUCAS A. TURNER, P.E.<br>FL PE # 58201<br>1239 JABARA AVE.<br>NORTH PORT, FL 34288<br>PH. 941-380-1574 | SHEET DESCRIPTION:<br>ANCHOR SCHEDULE AND<br>NOTES |
| DRAWN BY: EMK<br>DATE: 06/02/15                                                                        | DOWG #: -<br>SCALE: CWS-1067<br>REV: -             |
| 1:20<br>SHEET 5 OF 6                                                                                   |                                                    |

| FRAME TYPE | SUBSTRATE TYPE                                        | ANCHOR TYPE                               | MIN. EMBEDMENT          | MIN. EDGE DIST. |
|------------|-------------------------------------------------------|-------------------------------------------|-------------------------|-----------------|
| FLANGE     | CONCRETE (2.0 KSI MIN.)                               | 3/16" T1W TAPCON                          | 1"                      | 1-1/8"          |
| FLANGE     | HOLLOW OR GROUT-FILLED CMU (117 PCF MIN.)             | 3/16" T1W TAPCON                          | 1"                      | 2"              |
| FLANGE     | CONCRETE (2.85 KSI MIN.)                              | 3/16" ELCO ULTRACON                       | 1"                      | 1"              |
| FLANGE     | CONCRETE (2.85 KSI MIN.)                              | 3/16" ELCO ULTRACON                       | 1-3/4"                  | 2-1/2"          |
| FLANGE     | GROUT-FILLED CMU (ASTM C-90)                          | 3/16" T1W TAPCON                          | 1-3/8"                  | 7/8"            |
| FLANGE     | 2X MIN. SOUTHERN PINE (G=0.55)                        | OR ELCO ULTRACON                          | 1-3/8"                  | 7/8"            |
| FLANGE     | 2X MIN. SOUTHERN PINE (G=0.55)                        | #10 WOOD SCREW                            | 1-3/8"                  | 7/8"            |
| FLANGE     | 16 GAUGE (0.060") MN. STEEL STUD (33 KSI YIELD MIN.)  | #10-16 HLTN KWIK-FLEX OR TWS              | FULL THREAD THRU 0.060" | 7/16"           |
| FLANGE     | 1/8" ALUM. (6063-T5 MIN.) OR 1/8" STEEL (33 KSI MIN.) | #10 GRADE 5 SELF-TAPPING / DRILLING SCREW | FULL THREAD THRU 0.125" | 7/16"           |
| FIN        | 2X MIN. SOUTHERN PINE (G=0.55)                        | #10 WOOD SCREW                            | 1-1/2"                  | 1/2"            |

TABLE 1: APPROVED INSTALLATION FASTENERS



FLANGE REMOVAL NOTE: PARTIALLY OR FULLY REMOVING THE FLANGE, UP TO AND INCLUDING A BOX-FRAME APPLICATION IS ACCEPTABLE PROVIDED:  
 - MIN. 1/4" FILLET OF CONSTRUCTION-GRADE ADHESIVE CAULK IS APPLIED INSIDE AND OUT, FULL PERIMETER, BY INSTALLER.  
 - PRODUCT ANCHORAGE IS IN ACCORDANCE WITH REQUIREMENTS AS SHOWN FOR FLANGE WINDOWS.

6  
D  
HORIZONTAL SECTION  
BOX FRAME INSTALLATION  
SIMILAR FOR HEAD AND SILL FOR BOX INSTALLATION

**620 PVC HORIZ. SLIDER NON-IMPACT**

WWW.CWS.CO  
 1900 SW 44TH AVE.  
 OCALA, FLORIDA 34474

DATE: \_\_\_\_\_ BY: \_\_\_\_\_

DESCRIPTION: \_\_\_\_\_

NO. \_\_\_\_\_

6/8/2015

22

LUCAS A. TURNER, P.E.  
 1239 JABARA AVE.  
 NORTH PORT, FL 34288  
 PH. 941-380-1574

INSTALLATION DETAILS

DATE: 06/02/15

EMK

REV.: -

CWS-1067

SCALE: 1:2

SHEET 6 OF 6

SHEET DESCRIPTION:

FLANGE REMOVAL NOTE: PARTIALLY OR FULLY REMOVING THE FLANGE, UP TO AND INCLUDING A BOX-FRAME APPLICATION IS ACCEPTABLE PROVIDED:  
 - MIN. 1/4" FILLET OF CONSTRUCTION-GRADE ADHESIVE CAULK IS APPLIED INSIDE AND OUT, FULL PERIMETER, BY INSTALLER.  
 - PRODUCT ANCHORAGE IS IN ACCORDANCE WITH REQUIREMENTS AS SHOWN FOR FLANGE WINDOWS.

PROFESSIONAL ENGINEER  
 STATE OF FLORIDA  
 No. 58201  
 LUCAS ANDREW TURNER



**Product Approval**  
USER: Public User

License efficiently. Regulate fairly.

OFFICE OF THE SECRETARY

[Product Approval Menu](#) > [Product or Application Search](#) > [Application List](#) > **Application Detail**

SCREEN

**OFFICIAL DOCUMENTS  
NOT TO BE REMOVED  
Sarasota County Planning  
& Development Services**

16144104 BI

| FL #                                                                   | FL14110-R3                                                                                                                                                                                                                                                                                                |                 |             |           |      |            |      |            |      |            |      |
|------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------------|-----------|------|------------|------|------------|------|------------|------|
| Application Type                                                       | Revision                                                                                                                                                                                                                                                                                                  |                 |             |           |      |            |      |            |      |            |      |
| Code Version                                                           | 2014                                                                                                                                                                                                                                                                                                      |                 |             |           |      |            |      |            |      |            |      |
| Application Status                                                     | Approved                                                                                                                                                                                                                                                                                                  |                 |             |           |      |            |      |            |      |            |      |
| Comments                                                               |                                                                                                                                                                                                                                                                                                           |                 |             |           |      |            |      |            |      |            |      |
| Archived                                                               | <input type="checkbox"/>                                                                                                                                                                                                                                                                                  |                 |             |           |      |            |      |            |      |            |      |
| Product Manufacturer                                                   | Custom Hurricane Products Inc.                                                                                                                                                                                                                                                                            |                 |             |           |      |            |      |            |      |            |      |
| Address/Phone/Email                                                    | 4643 73rd st e<br>Bradenton, FL 34203<br>(866) 568-3520<br>admin@ezmaxfl.com                                                                                                                                                                                                                              |                 |             |           |      |            |      |            |      |            |      |
| Authorized Signature                                                   | Robert DeBoth<br>admin@ezmaxfl.com                                                                                                                                                                                                                                                                        |                 |             |           |      |            |      |            |      |            |      |
| Technical Representative                                               |                                                                                                                                                                                                                                                                                                           |                 |             |           |      |            |      |            |      |            |      |
| Address/Phone/Email                                                    |                                                                                                                                                                                                                                                                                                           |                 |             |           |      |            |      |            |      |            |      |
| Quality Assurance Representative                                       |                                                                                                                                                                                                                                                                                                           |                 |             |           |      |            |      |            |      |            |      |
| Address/Phone/Email                                                    |                                                                                                                                                                                                                                                                                                           |                 |             |           |      |            |      |            |      |            |      |
| Category                                                               | Shutters                                                                                                                                                                                                                                                                                                  |                 |             |           |      |            |      |            |      |            |      |
| Subcategory                                                            | Fabric Storm Panel                                                                                                                                                                                                                                                                                        |                 |             |           |      |            |      |            |      |            |      |
| Compliance Method                                                      | Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer<br><input checked="" type="checkbox"/> Evaluation Report - Hardcopy Received                                                                                                                            |                 |             |           |      |            |      |            |      |            |      |
| Florida Engineer or Architect Name who developed the Evaluation Report | David G. Karins                                                                                                                                                                                                                                                                                           |                 |             |           |      |            |      |            |      |            |      |
| Florida License                                                        | PE-52677                                                                                                                                                                                                                                                                                                  |                 |             |           |      |            |      |            |      |            |      |
| Quality Assurance Entity                                               | National Accreditation & Management Institute                                                                                                                                                                                                                                                             |                 |             |           |      |            |      |            |      |            |      |
| Quality Assurance Contract Expiration Date                             | 12/31/2016                                                                                                                                                                                                                                                                                                |                 |             |           |      |            |      |            |      |            |      |
| Validated By                                                           | ORLANDO L. BLANCO, P.E.<br><input checked="" type="checkbox"/> Validation Checklist - Hardcopy Received                                                                                                                                                                                                   |                 |             |           |      |            |      |            |      |            |      |
| Certificate of Independence                                            | <a href="#">FL14110 R3 COI Certificate of Independence.pdf</a>                                                                                                                                                                                                                                            |                 |             |           |      |            |      |            |      |            |      |
| Referenced Standard and Year (of Standard)                             | <table border="0"> <thead> <tr> <th><u>Standard</u></th> <th><u>Year</u></th> </tr> </thead> <tbody> <tr> <td>ASTM E330</td> <td>2002</td> </tr> <tr> <td>TAS 201-94</td> <td>2010</td> </tr> <tr> <td>TAS 202-94</td> <td>2010</td> </tr> <tr> <td>TAS 203-94</td> <td>2010</td> </tr> </tbody> </table> | <u>Standard</u> | <u>Year</u> | ASTM E330 | 2002 | TAS 201-94 | 2010 | TAS 202-94 | 2010 | TAS 203-94 | 2010 |
| <u>Standard</u>                                                        | <u>Year</u>                                                                                                                                                                                                                                                                                               |                 |             |           |      |            |      |            |      |            |      |
| ASTM E330                                                              | 2002                                                                                                                                                                                                                                                                                                      |                 |             |           |      |            |      |            |      |            |      |
| TAS 201-94                                                             | 2010                                                                                                                                                                                                                                                                                                      |                 |             |           |      |            |      |            |      |            |      |
| TAS 202-94                                                             | 2010                                                                                                                                                                                                                                                                                                      |                 |             |           |      |            |      |            |      |            |      |
| TAS 203-94                                                             | 2010                                                                                                                                                                                                                                                                                                      |                 |             |           |      |            |      |            |      |            |      |
| Equivalence of Product Standards Certified By                          |                                                                                                                                                                                                                                                                                                           |                 |             |           |      |            |      |            |      |            |      |
| Sections from the Code                                                 |                                                                                                                                                                                                                                                                                                           |                 |             |           |      |            |      |            |      |            |      |

Product Approval Method

Method 1 Option D

Date Submitted

04/30/2015

Date Validated

04/30/2015

Date Pending FBC Approval

05/10/2015

Date Approved

06/23/2015

#### Summary of Products

| FL #                                                                                                                                                                                                                                                                                                                                          | Model, Number or Name | Description                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 14110.1                                                                                                                                                                                                                                                                                                                                       | EZ Screen Max         | EZ Screen Max - 20 mil 100% Polypropylene mesh fabric storm panel.                                                                                                                                                                                                                                                                                                                                |
| <b>Limits of Use</b><br><b>Approved for use in HVHZ:</b> No<br><b>Approved for use outside HVHZ:</b> Yes<br><b>Impact Resistant:</b> Yes<br><b>Design Pressure:</b> +60/-60<br><b>Other:</b> Glass separation is required for Wind Zone 4 and all wind zones for essential facilities. See Installation Drawings for separation requirements. |                       | <b>Installation Instructions</b><br><a href="#">FL14110_R3_II_Installation_Instructions_II.pdf</a><br><a href="#">FL14110_R3_II_Installation_Instructions.pdf</a><br>Verified By: Architectural Testing, Inc. - Florida<br>Created by Independent Third Party: Yes<br><b>Evaluation Reports</b><br><a href="#">FL14110_R3_AE_Evaluation_Report.pdf</a><br>Created by Independent Third Party: Yes |

[Back](#)

[Next](#)

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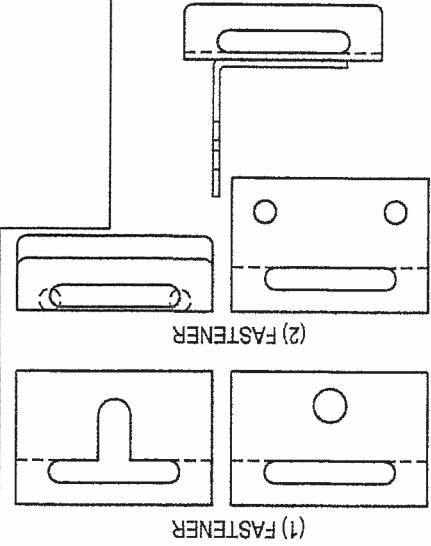
Under Florida law, email addresses are public records. If you do not want your e-mail address released in response to a public-records request, do not send electronic mail to this entity. Instead, contact the office by phone or by traditional mail. If you have any questions, please contact 850.487.1395. \*Pursuant to Section 455.275 (1), Florida Statutes, effective October 1, 2012, licensees licensed under Chapter 455, F.S. must provide the Department with an email address if they have one. The emails provided may be used for official communication with the licensee. However email addresses are public record. If you do not wish to supply a personal address, please provide the Department with an email address which can be made available to the public. To determine if you are a licensee under Chapter 455, F.S., please click [here](#).

Product Approval Accepts:



Credit Card  
**Safe**





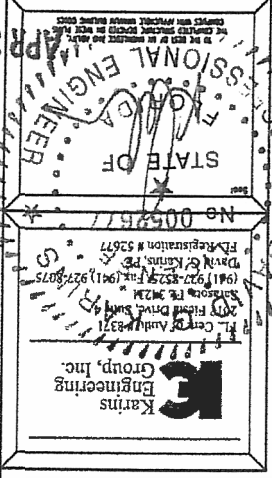
### BRACKET FASTENER TYPES

| SUBSTRATE MATERIAL                                                                                           | SPAN | STEEL (MIN. 0.1875" THICK) |        |        |        |        |       |       |       |       |            |
|--------------------------------------------------------------------------------------------------------------|------|----------------------------|--------|--------|--------|--------|-------|-------|-------|-------|------------|
|                                                                                                              |      | 17'-8"                     | 16'-0" | 14'-0" | 12'-0" | 10'-0" | 8'-0" | 6'-0" | 4'-0" | 2'-0" | 8'-6" OR < |
| TAPCON<br>1/4" X 2-1/4" (MIN.)                                                                               |      | N/A                        | N/A    | N/A    | N/A    | N/A    | N/A   | N/A   | N/A   | N/A   | N/A        |
| SAMMY'S HURRICANE SHUTTER<br>SCREWS SSC 1 3/4"                                                               |      | N/A                        | N/A    | N/A    | N/A    | N/A    | N/A   | N/A   | N/A   | N/A   | N/A        |
| SAMMY'S HURRICANE<br>SHUTTER SCREWS<br>DST-516                                                               |      | N/A                        | N/A    | N/A    | N/A    | N/A    | N/A   | N/A   | N/A   | N/A   | N/A        |
| WOOD SCREWS<br>1/4" X 2 3/4"                                                                                 |      | N/A                        | N/A    | N/A    | N/A    | N/A    | N/A   | N/A   | N/A   | N/A   | N/A        |
| C.F.S. HURRICANE<br>SHUTTER INSERT<br>ANCHOR 1/4" X 2 3/4"                                                   |      | N/A                        | N/A    | N/A    | N/A    | N/A    | N/A   | N/A   | N/A   | N/A   | N/A        |
| TEXTRON PANELMATE<br>ANCHOR #14-10 x 2-1/4"<br>MALE TYPE                                                     |      | N/A                        | N/A    | N/A    | N/A    | N/A    | N/A   | N/A   | N/A   | N/A   | N/A        |
| TEXTRON PANELMATE<br>ANCHOR #14-10 x 2-1/4"<br>FEMALE TYPE                                                   |      | N/A                        | N/A    | N/A    | N/A    | N/A    | N/A   | N/A   | N/A   | N/A   | N/A        |
| SAMMY'S CONCRETE<br>CTS20SS 5/16"x1-3/4"<br>TO RECEIVE 3/8"Ø ROD                                             |      | N/A                        | N/A    | N/A    | N/A    | N/A    | N/A   | N/A   | N/A   | N/A   | N/A        |
| SAMMY'S STEEL TEK50<br>12-24 x 1-1/2<br>TO RECEIVE 3/8"Ø ROD                                                 |      | N/A                        | N/A    | N/A    | N/A    | N/A    | N/A   | N/A   | N/A   | N/A   | N/A        |
| PANELMATE TVAS HEX<br>NO. 14-10 W/ 2" EMBED INTO<br>CONCRETE / 1-1/2" EMBED INTO<br>WOOD LENGTH UP TO 7-3/8" |      | N/A                        | N/A    | N/A    | N/A    | N/A    | N/A   | N/A   | N/A   | N/A   | N/A        |
| POWERS STEEL<br>DROP IN 1/4" ANCHOR<br>WITH 1" MIN. EMBED                                                    |      | N/A                        | N/A    | N/A    | N/A    | N/A    | N/A   | N/A   | N/A   | N/A   | N/A        |

N/A INDICATES FASTENER TYPE IS NOT APPLICABLE WITH FASTENING MATERIAL  
FASTENER TABLE IS BASED ON A 60 PSF WIND LOAD

### NOTES:

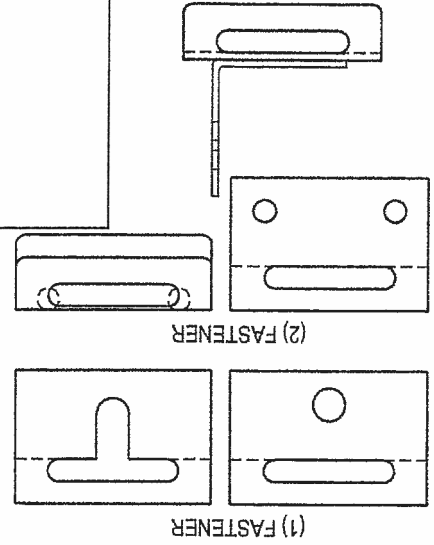
- TAPCON VALUES DETERMINED WITH MIN. 1 3/4" EMBEDMENT AND 2 1/2" EDGE DISTANCE
- PANELMATE VALUES DETERMINED WITH MIN. 3" EDGE DISTANCE & EMBEDMENT OF 1-3/4" CONC., 1-1/4" CMU, 1-7/8" WOOD
- SAMMY DTS SHALL BE INTO MINIMUM OF 1/4" STEEL
- DESIGN SAFETY FACTOR 4:1
- ALLOWABLE VALUES ARE OBTAINED FROM MANUFACTURERS' LOAD TABLES
- FASTENERS FOR SLOTTED BRACKET SHALL BE INSTALLED 1/4 TURN PAST SNUG OR AS DIRECTED BY MANUF. TO PREVENT SLIPPAGE
- FASTENERS INTO CONCRETE SHALL HAVE A MINIMUM THICKNESS OF 3-1/2" IN DEPTH.
- \*\* ADDITIONAL PENETRATION REQUIRED, USE SSC 2 1/4"
- \*\*\* LOADED PARALLEL TO GRAIN OF WOOD AND WITH MINIMUM 1 1/2" EDGE DISTANCE AND MINIMUM 6" END DISTANCE. PREDRILL REQUIRED.



PROJECT

## POLYPROPYLENE SCREEN HURRICANE SHUTTER FASTENER / DESIGN LOAD TABLE

SHEET 2.1a



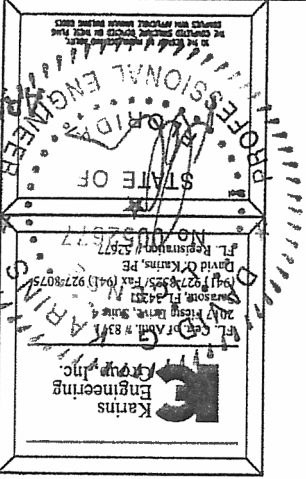
### BRACKET FASTENER TYPES

| SUBSTRATE MATERIAL                                                                                           | SPAN | 17'-8" | 16'-0" | 14'-0" | 12'-0" | 10'-0" | 8'-6" OR < |
|--------------------------------------------------------------------------------------------------------------|------|--------|--------|--------|--------|--------|------------|
| TAPCON<br>1/4" X 2-1/4" (MIN.)                                                                               |      | 8"     | 8"     | 10"    | 9"     | 14"    | 14"        |
| SAMMY'S HURRICANE SHUTTER<br>SCREWS SSC 1 3/4"                                                               |      | 7"     | 7"     | 8"     | 8"     | 10"    | 12"        |
| SAMMY'S HURRICANE<br>SHUTTER SCREWS<br>DST-516                                                               |      | N/A    | N/A    | N/A    | N/A    | N/A    | N/A        |
| WOOD SCREWS<br>1/4" X 2 3/4"                                                                                 |      | N/A    | N/A    | N/A    | N/A    | N/A    | N/A        |
| C.F.S. HURRICANE<br>SHUTTER INSERT<br>ANCHOR 1/4" X 2 3/4"                                                   |      | 14"    | 14"    | 14"    | 14"    | 14"    | 14"        |
| TEXTRON PANELMATE<br>ANCHOR #14-10 x 2-1/4"<br>MALE TYPE                                                     |      | 14"    | 14"    | 14"    | 14"    | 14"    | 14"        |
| TEXTRON PANELMATE<br>ANCHOR #14-10 x 2-1/4"<br>FEMALE TYPE                                                   |      | 14"    | 14"    | 14"    | 14"    | 14"    | 14"        |
| SAMMY'S CONCRETE<br>CTS20SS 5/16"x1-3/4"<br>TO RECEIVE 3/8"Ø ROD                                             |      | N/A    | N/A    | N/A    | N/A    | N/A    | N/A        |
| SAMMY'S STEEL TEK50<br>12-24 x 1-1/2<br>TO RECEIVE 3/8"Ø ROD                                                 |      | N/A    | N/A    | N/A    | N/A    | N/A    | N/A        |
| PANELMATE TVAS HEX<br>NO. 14-10 W/ 2" EMBED INTO<br>CONCRETE / 1-1/2" EMBED INTO<br>WOOD LENGTH UP TO 7-3/8" |      | 14"    | 14"    | 14"    | 14"    | 14"    | 14"        |
| POWERS STEEL<br>DROPIN 1/4" ANCHOR<br>WITH 1" MIN. EMBED                                                     |      | N/A    | N/A    | N/A    | N/A    | N/A    | N/A        |

N/A INDICATES FASTENER TYPE IS NOT APPLICABLE WITH FASTENING MATERIAL  
FASTENER TABLE IS BASED ON A 60 PSF WIND LOAD

#### NOTES:

- TAPCON VALUES DETERMINED WITH MIN. 1 3/4" EMBEDMENT AND 2 1/2" EDGE DISTANCE
- PANELMATE VALUES DETERMINED WITH MIN. 3" EDGE DISTANCE & EMBEDMENT OF 1-3/4" CONC., 1-1/4" CMU, 1-7/8" WOOD
- SAMMY DTS SHALL BE INTO MINIMUM OF 1/4" STEEL
- DESIGN SAFETY FACTOR 4:1
- ALLOWABLE VALUES ARE OBTAINED FROM MANUFACTURERS' LOAD TABLES
- FASTENERS FOR SLOTTED BRACKET SHALL BE INSTALLED 1/4 TURN PAST SNUG OR AS DIRECTED BY MANUF. TO PREVENT SLIPPAGE
- FASTENERS INTO CONCRETE SHALL HAVE A MINIMUM THICKNESS OF 3-1/2" IN DEPTH.
- \*\* ADDITIONAL PENETRATION REQUIRED. USE SSC 2 1/4"
- \*\*\* LOADED PARALLEL TO GRAIN OF WOOD AND WITH MINIMUM 1 1/2" EDGE DISTANCE AND MINIMUM 6" END DISTANCE. PREDRILL REQUIRED.

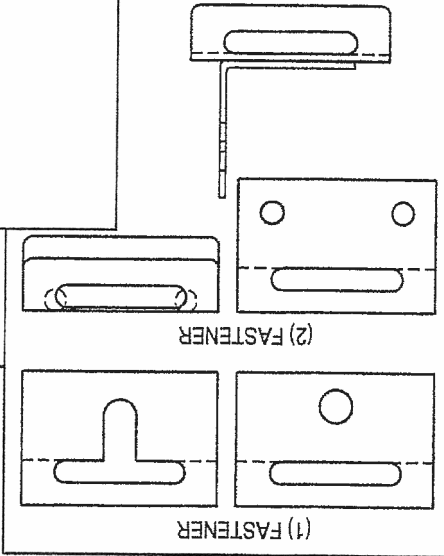


PROJECT

## POLYPROPYLENE SCREEN HURRICANE SHUTTER FASTENER / DESIGN LOAD TABLE

SHEET 2.1b

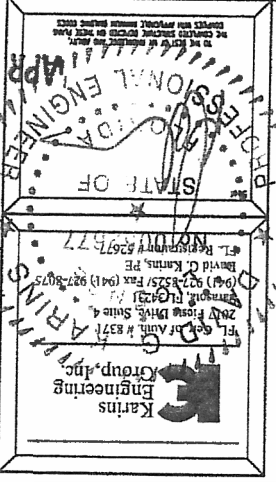




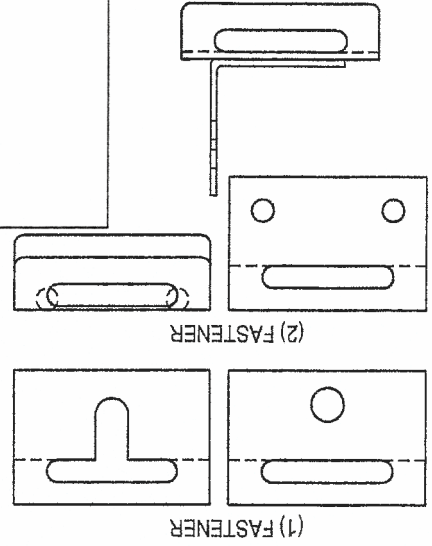
| SUBSTRATE MATERIAL |                                | BRACKET FASTENER TYPES                        |                                               |                              |                                                            |                                                          |                                                            |                                                                   |                                                              |                                                                                                              |                                                          |                   |            |
|--------------------|--------------------------------|-----------------------------------------------|-----------------------------------------------|------------------------------|------------------------------------------------------------|----------------------------------------------------------|------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|-------------------|------------|
| SPAN               | TAPCON<br>1/4" X 2-1/4" (MIN.) | SAMI'S HURRICANE SHUTTER<br>SCREWS SSC 1 3/4" | SAMI'S HURRICANE<br>SHUTTER SCREWS<br>DST-516 | WOOD SCREWS<br>1/4" X 2 3/4" | C.F.S. HURRICANE<br>SHUTTER INSERT<br>ANCHOR 1/4" X 2 3/4" | TEXTRON PANELMATE<br>ANCHOR #14-10 x 2-1/4"<br>MALE TYPE | TEXTRON PANELMATE<br>ANCHOR #14-10 x 2-1/4"<br>FEMALE TYPE | SAMI'S CONCRETE<br>CTS20SS 5/16" x 1-3/4"<br>TO RECEIVE 3/8"Ø ROD | SAMI'S STEEL TEK50<br>12-24 x 1-1/2"<br>TO RECEIVE 3/8"Ø ROD | PANELMATE TVAS HEX<br>NO. 14-10 W/ 2" EMBED INTO<br>CONCRETE / 1-1/2" EMBED INTO<br>WOOD LENGTH UP TO 7-3/8" | POWERS STEEL<br>DROPIN 1/4" ANCHOR<br>WITH 1" MIN. EMBED | 3000 PSI CONCRETE |            |
|                    |                                |                                               |                                               |                              |                                                            |                                                          |                                                            |                                                                   |                                                              |                                                                                                              |                                                          | 17'-8"            | 8'-8" OR < |
| 10"                | 10"                            | 12"                                           | 12"                                           | N/A                          | 14"                                                        | 14"                                                      | 14"                                                        | 14"                                                               | N/A                                                          | 14"                                                                                                          | 10"                                                      | 16'-0"            | 14'-0"     |
| 12"                | 14"                            | N/A                                           | N/A                                           | N/A                          | 14"                                                        | 14"                                                      | 14"                                                        | 14"                                                               | N/A                                                          | 14"                                                                                                          | 14"                                                      | 12'-0"            | 10'-0"     |
| 14"                | 14"                            | N/A                                           | N/A                                           | N/A                          | 14"                                                        | 14"                                                      | 14"                                                        | 14"                                                               | N/A                                                          | 14"                                                                                                          | 14"                                                      | 14'-0"            | 12'-0"     |
| 16'-0"             | 14"                            | N/A                                           | N/A                                           | N/A                          | 14"                                                        | 14"                                                      | 14"                                                        | 14"                                                               | N/A                                                          | 14"                                                                                                          | 14"                                                      | 10'-0"            | 8'-8" OR < |
| 17'-8"             | 14"                            | N/A                                           | N/A                                           | N/A                          | 14"                                                        | 14"                                                      | 14"                                                        | 14"                                                               | N/A                                                          | 14"                                                                                                          | 14"                                                      | 10'-0"            | 8'-8" OR < |

N/A INDICATES FASTENER TYPE IS NOT APPLICABLE WITH FASTENING MATERIAL  
FASTENER TABLE IS BASED ON A 60 PSF WIND LOAD

- NOTES:
- TAPCON VALUES DETERMINED WITH MIN. 1 3/4" EMBEDMENT AND 2 1/2" EDGE DISTANCE
  - PANELMATE VALUES DETERMINED WITH MIN. 3" EDGE DISTANCE & EMBEDMENT OF 1-3/4" CONC. 1-1/4" CMU, 1-7/8" WOOD
  - SAMMY DTS SHALL BE INTO MINIMUM OF 1/4" STEEL
  - DESIGN SAFETY FACTOR 4:1
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  - FASTENERS FOR SLOTTED BRACKET SHALL BE INSTALLED 1/4 TURN PAST SNUG OR AS DIRECTED BY MANUF. TO PREVENT SLIPPAGE
  - FASTENERS INTO CONCRETE SHALL HAVE A MINIMUM THICKNESS OF 3-1/2" IN DEPTH.
  - ADDITIONAL PENETRATION REQUIRED. USE SSC 2 1/4"
  - \*\* LOADED PARALLEL TO GRAIN OF WOOD AND WITH MINIMUM 1 1/2" EDGE DISTANCE AND MINIMUM 6" END DISTANCE. PREDRILL REQUIRED.



POLYPROPYLENE SCREEN HURRICANE SHUTTER  
FASTENER /  
DESIGN LOAD TABLE



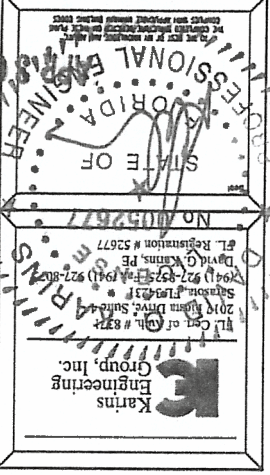
# BRACKET FASTENER TYPES

| SUBSTRATE MATERIAL                                                                                           | HOLLOW BLOCK (1500 psi) |
|--------------------------------------------------------------------------------------------------------------|-------------------------|
| SPAN                                                                                                         | 17'-8"                  |
| TAPCON<br>1/4" X 2-1/4" (MIN.)                                                                               | 7"                      |
| SAMMYS HURRICANE SHUTTER<br>SCREWS SSC 1 3/4"                                                                | 7"                      |
| SAMMYS HURRICANE<br>SHUTTER SCREWS<br>DST-516                                                                | N/A                     |
| WOOD SCREWS<br>1/4" X 2 3/4"                                                                                 | N/A                     |
| C.F.S. HURRICANE<br>SHUTTER INSERT<br>ANCHOR 1/4" X 2 3/4"                                                   | 7"                      |
| TEXTRON PANELMATE<br>ANCHOR #14-10 x 2-1/4"                                                                  | N/A                     |
| MALE TYPE                                                                                                    | N/A                     |
| TEXTRON PANELMATE<br>ANCHOR #14-10 x 2-1/4"                                                                  | N/A                     |
| FEMALE TYPE                                                                                                  | N/A                     |
| SAMMYS CONCRETE<br>CTS20SS 5/16"x1-3/4"<br>TO RECEIVE 3/8"Ø ROD                                              | N/A                     |
| SAMMYS STEEL TEK50<br>12-24 x 1-1/2<br>TO RECEIVE 3/8"Ø ROD                                                  | N/A                     |
| PANELMATE TVAS HEX<br>NO. 14-10 W/ 2" EMBED INTO<br>CONCRETE / 1-1/2" EMBED INTO<br>WOOD LENGTH UP TO 7-3/8" | N/A                     |
| POWERS STEEL<br>DROP IN 1/4" ANCHOR<br>WITH 1" MIN. EMBED                                                    | N/A                     |

N/A INDICATES FASTENER TYPE IS NOT APPLICABLE WITH FASTENING MATERIAL  
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## NOTES:

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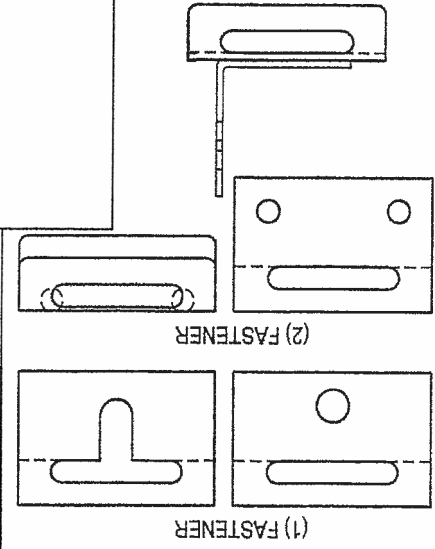


Project

## POLYPROPYLENE SCREEN HURRICANE SHUTTER FASTENER / DESIGN LOAD TABLE

SHEET 2.1d

2015



BRACKET FASTENER TYPES

| SUBSTRATE MATERIAL                                                                                           | SPAN | GROUT FILLED CMU (2000 psi MIN) |        |        |        |        |            |            |            |
|--------------------------------------------------------------------------------------------------------------|------|---------------------------------|--------|--------|--------|--------|------------|------------|------------|
|                                                                                                              |      | 17'-8"                          | 16'-0" | 14'-0" | 12'-0" | 10'-0" | 8'-6" OR < | 8'-6" OR < | 8'-6" OR < |
| TAPCON<br>1/4" X 2-1/4" (MIN.)                                                                               |      | 7"                              | 8"     | 9"     | 10"    | 12"    | 14"        | 14"        | 14"        |
| SAMMY'S HURRICANE SHUTTER<br>SCREWS SSC 1 3/4" (2-1/2" INTO GROUT FILLED CMU)                                |      | 7"                              | 8"     | 9"     | 10"    | 12"    | 14"        | 14"        | 14"        |
| SAMMY'S HURRICANE<br>SHUTTER SCREWS<br>DST-516                                                               |      | N/A                             | N/A    | N/A    | N/A    | N/A    | N/A        | N/A        | N/A        |
| WOOD SCREWS<br>1/4" X 2 3/4"                                                                                 |      | N/A                             | N/A    | N/A    | N/A    | N/A    | N/A        | N/A        | N/A        |
| C.F.S. HURRICANE<br>SHUTTER INSERT<br>ANCHOR 1/4" X 2 3/4"                                                   |      | 14"                             | 14"    | 14"    | 14"    | 14"    | 14"        | 14"        | 14"        |
| TEXTRON PANELMATE<br>ANCHOR #14-10 x 2-1/4"<br>MALE TYPE                                                     |      | 14"                             | 14"    | 14"    | 14"    | 14"    | 14"        | 14"        | 14"        |
| TEXTRON PANELMATE<br>ANCHOR #14-10 x 2-1/4"<br>FEMALE TYPE                                                   |      | 14"                             | 14"    | 14"    | 14"    | 14"    | 14"        | 14"        | 14"        |
| SAMMY'S CONCRETE<br>CTS20SS 5/16"x1-3/4"<br>TO RECEIVE 3/8"Ø ROD                                             |      | N/A                             | N/A    | N/A    | N/A    | N/A    | N/A        | N/A        | N/A        |
| SAMMY'S STEEL TEK50<br>12-24 x 1-1/2"<br>TO RECEIVE 3/8"Ø ROD                                                |      | N/A                             | N/A    | N/A    | N/A    | N/A    | N/A        | N/A        | N/A        |
| PANELMATE TVAS HEX<br>NO. 14-10 W/ 2" EMBED INTO<br>CONCRETE / 1-1/2" EMBED INTO<br>WOOD LENGTH UP TO 7-3/8" |      | N/A                             | N/A    | N/A    | N/A    | N/A    | N/A        | N/A        | N/A        |
| POWERS STEEL<br>DROP IN 1/4" ANCHOR<br>WITH 1" MIN. EMBED                                                    |      | N/A                             | N/A    | N/A    | N/A    | N/A    | N/A        | N/A        | N/A        |

N/A INDICATES FASTENER TYPE IS NOT APPLICABLE WITH FASTENING MATERIAL  
FASTENER TABLE IS BASED ON A 60 PSF WIND LOAD

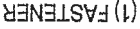
NOTES:

- TAPCON VALUES DETERMINED WITH MIN. 1 3/4" EMBEDMENT AND 2 1/2" EDGE DISTANCE
- PANELMATE VALUES DETERMINED WITH MIN. 3" EDGE DISTANCE & EMBEDMENT OF 1-3/4" CONC., 1-1/4" CMU, 1-7/8" WOOD
- SAMMY DTS SHALL BE INTO MINIMUM OF 1/4" STEEL
- DESIGN SAFETY FACTOR 4:1
- ALLOWABLE VALUES ARE OBTAINED FROM MANUFACTURERS' LOAD TABLES
- FASTENERS FOR SLOTTED BRACKET SHALL BE INSTALLED 1/4 TURN PAST SNUG OR AS DIRECTED BY MANUF. TO PREVENT SLIPPAGE
- FASTENERS INTO CONCRETE SHALL HAVE A MINIMUM THICKNESS OF 3-1/2" IN DEPTH.
- \*\* ADDITIONAL PENETRATION REQUIRED. USE SSC 2 1/4"
- \*\*\* LOADED PARALLEL TO GRAIN OF WOOD AND WITH MINIMUM 1 1/2" EDGE DISTANCE AND MINIMUM 6" END DISTANCE. PREDRILL REQUIRED.



PROJECT

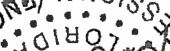
POLYPROPYLENE SCREEN HURRICANE SHUTTER  
FASTENER /  
DESIGN LOAD TABLE



## BRACKET FASTENER TYPES

**NOTES:**

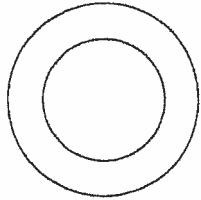
- TAPCON VALUES DETERMINED WITH MIN. 1 3/4" EMBEDMENT AND 2 1/2" EDGE DISTANCE



2015

SHEET 2.1f

# #3 GROMMET



## FASTENER TYPES FOR GROMMETS

| MATERIAL                                                                                                     | STEEL (MIN. 0.1875" THICK) | 2000 PSI CONCRETE | 3000 PSI CONCRETE | HOLLOW BLOCK (1500 psi) | GROUT FILLED CMU (2000 psi MIN) | WOOD (SYP 0.53 S.G.)*** |
|--------------------------------------------------------------------------------------------------------------|----------------------------|-------------------|-------------------|-------------------------|---------------------------------|-------------------------|
| TAPCON<br>1/4" X 2-1/4" (MIN.)                                                                               | N/A                        | (1)               | (1)               | (1)                     | (1)                             | N/A                     |
| SAMMYS HURRICANE SHUTTER<br>SCREWS SSC 1 3/4" (2-1/2"<br>INTO GROUT FILLED CMU)                              | N/A                        | (1)               | (1)               | (1)                     | (1)                             | (1)                     |
| SAMMYS HURRICANE<br>SHUTTER SCREWS<br>DST-516                                                                | (1)                        | N/A               | N/A               | N/A                     | N/A                             | N/A                     |
| WOOD SCREWS<br>1/4" X 2 3/4"                                                                                 | N/A                        | N/A               | N/A               | N/A                     | N/A                             | (1)                     |
| C.F.S. HURRICANE<br>SHUTTER INSERT<br>ANCHOR 1/4" X 2 3/4"                                                   | N/A                        | N/A               | (1)               | (1)                     | (1)                             | (1)                     |
| TEXTRON PANELMATE<br>ANCHOR #14-10 X 2-1/4"                                                                  | N/A                        | (1)               | (1)               | (1)                     | (1)                             | (1)                     |
| MALE TYPE                                                                                                    | N/A                        | (1)               | (1)               | (1)                     | (1)                             | (1)                     |
| TEXTRON PANELMATE<br>ANCHOR #14-10 X 2-1/4"                                                                  | N/A                        | (1)               | (1)               | (1)                     | (1)                             | (1)                     |
| FEMALE TYPE                                                                                                  | N/A                        | (1)               | (1)               | (1)                     | (1)                             | (1)                     |
| SAMMYS CONCRETE<br>CTS20SS 5/16" X 1-3/4"                                                                    | N/A                        | N/A               | (1)               | (1)                     | N/A                             | N/A                     |
| TO RECEIVE 3/8"Ø ROD                                                                                         | N/A                        | N/A               | (1)               | (1)                     | N/A                             | N/A                     |
| SAMMYS STEEL TEK50<br>12-24 X 1-1/2"                                                                         | (1)                        | N/A               | N/A               | N/A                     | N/A                             | N/A                     |
| TO RECEIVE 3/8"Ø ROD                                                                                         | (1)                        | N/A               | N/A               | N/A                     | N/A                             | N/A                     |
| PANELMATE TVAS HEX<br>NO. 14-10 W/ 2" EMBED INTO<br>CONCRETE / 1-1/2" EMBED INTO<br>WOOD LENGTH UP TO 7-3/8" | N/A                        | (1)               | (1)               | (1)                     | N/A                             | (1)                     |
| POWERS STEEL<br>DROPIN 1/4" ANCHOR<br>WITH 1" MIN. EMBED                                                     | N/A                        | N/A               | (1)               | (1)                     | N/A                             | N/A                     |

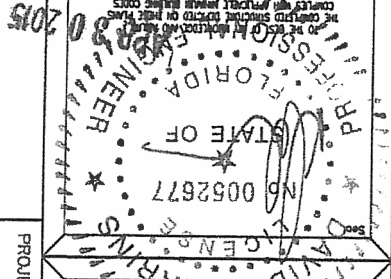
N/A INDICATES FASTENER TYPE IS NOT APPLICABLE WITH FASTENING MATERIAL

## NOTES:

- FASTENERS SHOWN ARE APPLICABLE FOR ALL SPANS INDICATED ON GROMMET FASTENER TABLE AND
- TAPCON VALUES DETERMINED WITH MIN. 1 3/4" EMBEDMENT AND 2 1/2" EDGE DISTANCE
- PANELMATE VALUES DETERMINED WITH MIN. 3" EDGE DISTANCE & EMBEDMENT OF 1-3/4" CONC., 1-1/4" CMU, 1-7/8" WOOD
- SAMMY DTS SHALL BE INTO MINIMUM OF 1/4" STEEL
- DESIGN SAFETY FACTOR 4:1
- ALLOWABLE VALUES ARE OBTAINED FROM MANUFACTURERS' LOAD TABLES
- FASTENERS INTO CONCRETE SHALL HAVE A MINIMUM THICKNESS OF 3-1/2" IN DEPTH.
- \*\* ADDITIONAL PENETRATION REQUIRED. USE SSC 2 1/4"
- \*\*\* LOADED PARALLEL TO GRAIN OF WOOD AND WITH MINIMUM 1 1/2" EDGE DISTANCE AND MINIMUM 6" END DISTANCE.

**K**  
Karins  
Engineering  
Group, Inc.

FL. Cert. of Auth. # 83371  
2017 Fiesta Drive, Suite 4  
Sarasota, FL 34231  
David G. Karins, PE  
FL. Registration # 52677



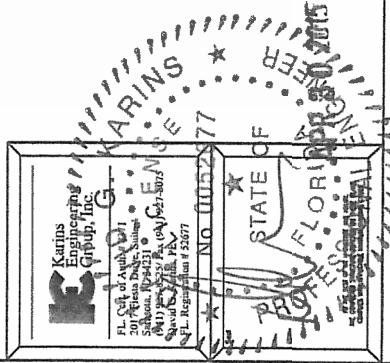
PROJECT

## 'EZ-SCREEN MAX' POLYPROPYLENE HURRICANE SHUTTER FASTENER / DESIGN LOAD TABLE

SHEET 2.2

MINIMUM AVERAGE ROLL VALUES FOR THE POLYPROPYLENE FABRIC:

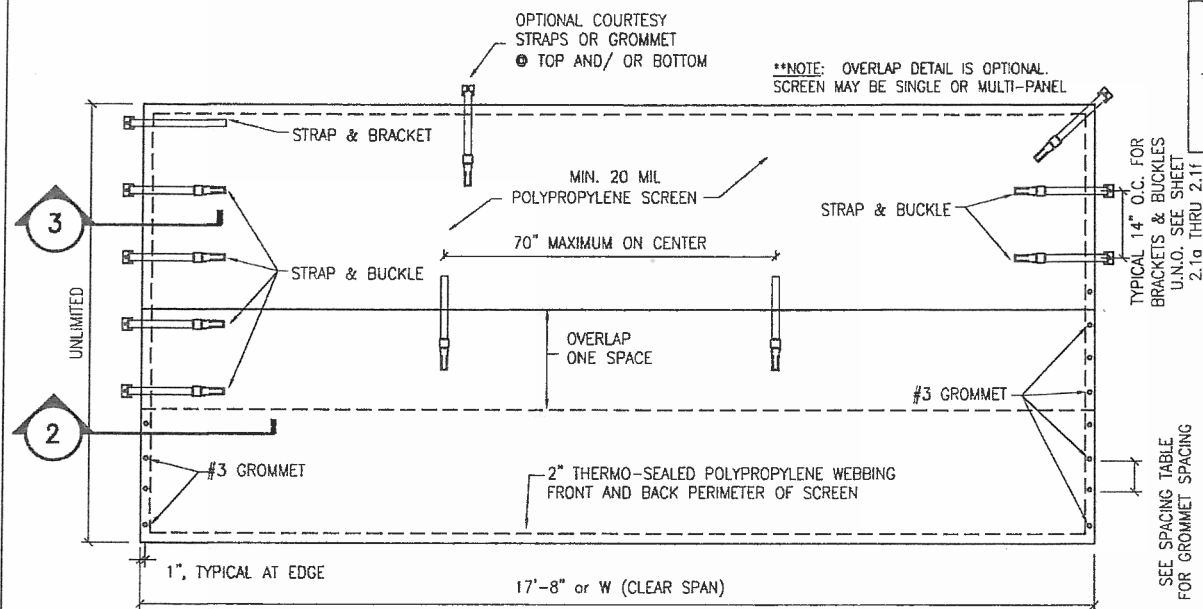
|                                    |                             |
|------------------------------------|-----------------------------|
| GRAB TENSILE STRENGTH (ASTM D4632) | 450 LBS WARP - 425 LBS FILL |
| PUNCTURE STRENGTH (ASTM D4833)     | 190 LBS                     |
| BURST STRENGTH (ASTM D3786)        | 825 PSI                     |
| TEAR STRENGTH (ASTM D4533)         | 200 LBS WARP - 170 LBS FILL |
| ABRASION RESISTANCE (ASTM D 4886)  | 95% STRENGTH RETAINED       |
| UV RESISTANCE (ASTM D G154)        | 90% STRENGTH RETAINED       |
| AIR FLOW                           | 230 CFM                     |
| WEIGHT                             | 7.6 OZ/SQUARE YARD          |



PROJECT

SHEET 3

EZSCREEN MAX  
POLYPROPYLENE SCREEN HURRICANE SHUTTER  
FABRIC SPECIFICATION



**PRODUCT LABEL**

THIS PRODUCT SHALL BE INSTALLED AND USED ONLY AS INTENDED PER THE INSTALLATION INSTRUCTIONS.

THIS PRODUCT DOES NOT MEET ASTM D1929, ASTM E84, ASTM D2843, ASTM D835, AAMA 1600, OR ASTM G15, ASTM D2526, ASTM D256 AND SHALL NOT BE PERMANETELY INSTALLED.

**DO NOT REMOVE THIS LABEL**

LABEL SHALL BE INSTALLED ON SCREEN FABRIC

| GROMMET SPACING TABLE |          |                |
|-----------------------|----------|----------------|
| 60 PSF                |          |                |
| W                     | SPACING  | SHEAR REACTION |
| 17'-8"                | 7" O.C.  | 309 #          |
| 16'-0"                | 7" O.C.  | 280 #          |
| 14'-0"                | 8" O.C.  | 280 #          |
| 12'-0"                | 10" O.C. | 300 #          |
| 10'-0"                | 12" O.C. | 300 #          |
| 8'-6" OR <            | 14" O.C. | 298 #          |

NOTE: GROMMETS SHALL NOT BE USED IN TRAP MOUNT CONFIGURATIONS LOADS ARE PER FASTENER

## GENERAL NOTES:

### TYP. EXTERIOR ELEVATION

1. CUSTOM HURRICANE PRODUCTS 'EZ-SCREENS MAX' HAS BEEN DESIGNED AND TESTED IN ACCORDANCE WITH FLORIDA BUILDING CODE CHAPTER 16 AND TAS 201, 202, AND 203 FOR LARGE MISSILE IMPACT, AND MEETS THE NON-POROUS REQUIREMENTS FOR OUTSIDE THE HIGH VELOCITY HURRICANE ZONES
2. NO ALLOWABLE STRESS INCREASE HAS BEEN USED IN THE DESIGN OF THE EZ-SCREENS.
3. ADEQUACY OF EXISTING STRUCTURE SHALL BE DETERMINED BY OTHERS.
4. UNIT HEIGHT (DISTANCE BETWEEN SUPPORTED SIDES) SHOWN IS MAXIMUM ALLOWABLE WITHOUT SITE-SPECIFIC ENGINEERING. LENGTH IS UNLIMITED.
5. SCREEN FABRIC SHALL BE MIN. 20-MIL PLOYPROPYLENE, WOVEN USING 136 POLYESTER THREAD, TANARA THREAD BY GORE WITH MIN. TENSILE BREAKING TEST STRENGTH OF 15 LBS.
6. GLAZING SEPARATION IS NOT REQUIRED OUTSIDE HVHZ, EXCEPT FOR WIND ZONE 4 AND ALL WIND ZONES FOR ESSENTIAL FACILITIES. SEE DEFLECTION AND SCREEN SEPARATION REQUIREMENTS FOR THESE ZONES ON SHEET 1. SCREEN FABRIC SHALL HAVE POROSITY  $\leq 10\%$ .
7. MOUNTING BRACKET SHALL BE FASTENED TO SUBSTRATE ACCORDING TO 'EZ-SCREEN' BRACKET TABLE AND FASTENER MANUFACTURER DIRECTIONS.
8. MAX. ALLOWABLE DESIGN PRESSURES:  $\pm 60$  PSF
9. SEE SHEET 3 FOR FABRIC SPECIFICATIONS.
10. THE PRODUCT SHALL BE LABELED IN ACCORDANCE WITH FBC - 1710.8

NOTE:

- FASTENING OF SCREEN SHALL BE GROMMETS, STRAP & BUCKLE, STRAP & BRACKET, OR ANY COMBINATION. ONLY ONE TYPE OF CONNECTION IS PERMITTED PER SIDE.
- CONNECTION WRAPS OF SUPPORT POST ARE PERMITTED.
- ONLY BUCKLES CAN BE PLACED ON OPPOSITE SIDE ON ONE SIDE OF SCREEN TO ALLOW FOR EGRESS OF OPENING

GLASS SEPARATION + SCREEN DEFLECTION TABLE W/O STORM BARS

| W (CLEAR SPAN)                                                                              | 212"  | 192" | 168" | 144" | 120" | 102" or LESS |
|---------------------------------------------------------------------------------------------|-------|------|------|------|------|--------------|
| SEPARATION DISTANCES BETWEEN PROTECTED GLAZING AND SCREEN AT ZONE 4 AND ESSENTIAL BUILDINGS | 33.1" | 31"  | 28"  | 25"  | 22"  | 15"          |

SCREEN DEFLECTION TABLE W/ STORM BARS

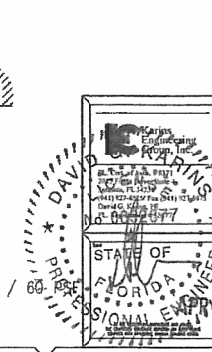
| W OR CLEAR SPAN                                                                             | 96"   | 84"   | 72"   | 60"   | 48"   | 36"   | 30"  |
|---------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|------|
| TOTAL DEFLECTION OF SCREEN AND STORM BAR SYSTEM                                             | *1.4" | *1.4" | *1.4" | *1.4" | *1.4" | *1.2" | *1"  |
| SEPARATION DISTANCES BETWEEN PROTECTED GLAZING AND SCREEN AT ZONE 4 and ESSENTIAL BUILDINGS | 5.1"  | 5.1"  | 5.1"  | 5.1"  | 5.1"  | 5.1"  | 5.1" |

\*TOTAL DEFLECTION OF THE SYSTEM FOR POSITIVE PRESSURES. GLASS SEPARATION OF 1" IS REQUIRED.

| LOADS ON STRUCTURE |           |          |
|--------------------|-----------|----------|
| 60 PSF             |           |          |
| W                  | TENSION   | SHEAR    |
| 17'-8"             | 1097 #/FT | 531 #/FT |
| 16'-0"             | 993 #/FT  | 480 #/FT |
| 14'-0"             | 869 #/FT  | 420 #/FT |
| 12'-0"             | 745 #/FT  | 360 #/FT |
| 10'-0"             | 621 #/FT  | 300 #/FT |
| 8'-6" OR <         | 528 #/FT  | 255 #/FT |

NOTE: FOR LOADS ON STRUCTURES FOR WIND PRESSURES LESS THAN 60 PSF, VALUES IN THE TABLE MAYBE OBTAINED BY THE FOLLOWING FORMULA:

VALUE FROM TABLE X PRESSURE DESIRED / 60



Project Name: CUSTOM HURRICANE PRODUCTS  
2024 58TH AVE OIR E  
BRADENTON FL 34203  
WWW.CUSTOMHURRICANEPRODUCTS.COM

Sheet Description: 'EZ-SCREEN MAX' POLYPROPYLENE SCREEN HURRICANE SHUTTER  
INSTALLATION INSTRUCTIONS

Drawn: DCK  
Checked:  
Date: 06CS-0397  
Scale: VARIES  
Date: 9/09/2010

Sheet No: 2015  
1

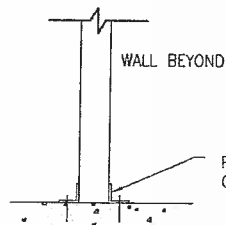
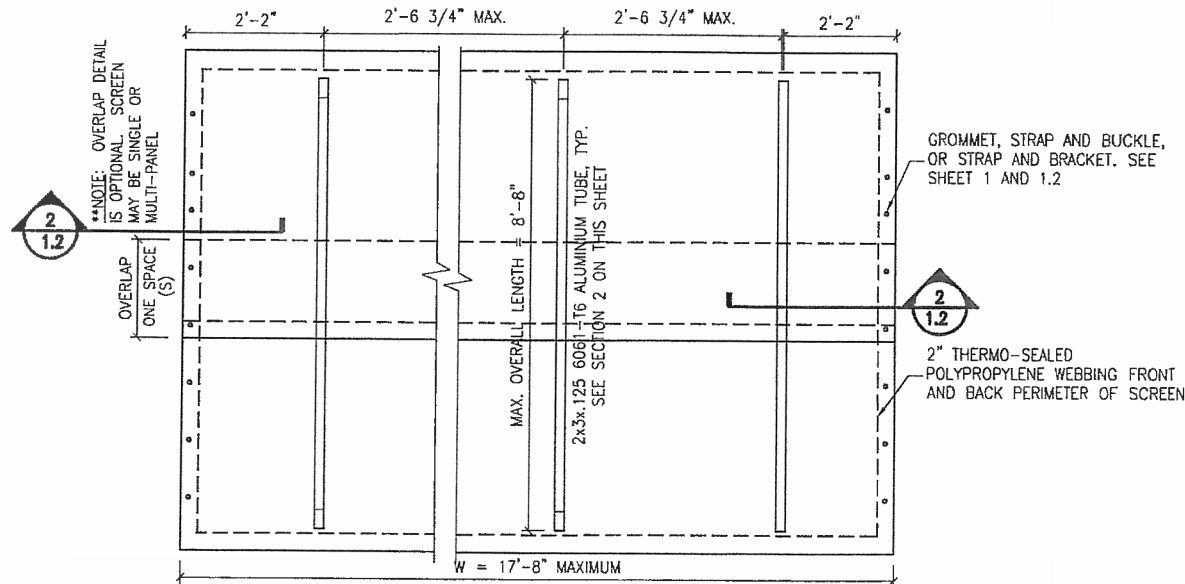




R30 2015<sup>1.3</sup>

## GENERAL NOTES:

1. CUSTOM HURRICANE PRODUCTS' EZ-SCREENS MAX' HAS BEEN DESIGNED AND TESTED IN ACCORDANCE WITH FLORIDA BUILDING CODE CHAPTER 16 AND TAS 201, 202, AND 203 FOR LARGE MISSILE IMPACT, AND MEETS THE NON-POROUS REQUIREMENTS FOR OUTSIDE THE HIGH VELOCITY HURRICANE ZONES.
2. NO ALLOWABLE STRESS INCREASE HAS BEEN USED IN THE DESIGN OF THE EZ-SCREENS.
3. ADEQUACY OF EXISTING STRUCTURE SHALL BE DETERMINED BY OTHERS.
4. UNIT HEIGHT (DISTANCE BETWEEN SUPPORTED SIDES) SHOWN IS MAXIMUM ALLOWABLE WITHOUT SITE-SPECIFIC ENGINEERING. LENGTH IS UNLIMITED.
5. SCREEN FABRIC SHALL BE MIN. 20-MIL POLYPROPYLENE, WOVEN USING 138 POLYESTER THREAD, TANARA THREAD BY GORE WITH MIN. TENSILE BREAKING TEST STRENGTH OF 15 LBS.
6. WHERE GLAZING SEPARATION IS NOT REQUIRED OUTSIDE HVHZ, EXCEPT FOR WIND ZONE 4 AND ALL WIND ZONES FOR ESSENTIAL FACILITIES. SEE DEFLECTION AND SCREEN SEPARATION REQUIREMENTS FOR THESE ZONES ON SHEET 1. SCREEN FABRIC SHALL HAVE POROSITY  $\leq 10\%$ .
7. MOUNTING BRACKET SHALL BE FASTENED TO SUBSTRATE ACCORDING TO EZ-SCREEN BRACKET TABLE AND FASTENER MANUFACTURER DIRECTIONS.
8. MAX. ALLOWABLE DESIGN PRESSURES:  
+/- 60 PSF
9. SEE SHEET 3 FOR FABRIC SPECIFICATIONS.
10. THE PRODUCT SHALL BE LABELED IN ACCORDANCE WITH FBC - 1710.8



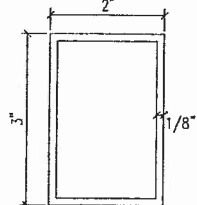
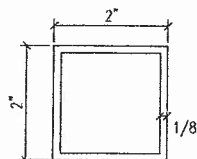
ATTACHMENT OF TUBE TO ANGLE: SHALL BE CONNECTED WITH (2) #8x1-1/2" PAN HEAD SELF DRILLING SCREWS.  
ATTACHMENT OF ANGLE TO WOOD OR CONCRETE: SHALL BE 1/2"  $\phi$  x 2-1/8" ANCHOR INSERT WITH (1) 1/4"  $\phi$  x 1-1/4" TRUSS HEAD MACHINE SCREW.  
NOTE: CONTRACTOR SHALL BE RESPONSIBLE FOR ISOLATING DISSIMILAR METALS

## GROUND MOUNT DETAIL

SCALE: N.T.S.

## STORM-BAR RISER DIE (OPTIONAL)

SCALE: 1" = 1"

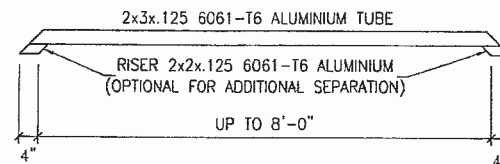


## STORM-BAR BAR DIE

SCALE: 1" = 1"

## STORM-BAR ELEVATION

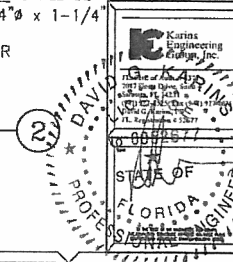
SCALE: N.T.S.



ATTACHMENT OF TUBE TO RISER: SHALL BE CONNECTED WITH (2) #8x1-1/2" PAN HEAD SELF DRILLING SCREWS AND EPOXY.  
ATTACHMENT OF TUBE OR RISER TO STRUCTURE: SHALL BE 1/2"  $\phi$  x 2-1/8" ANCHOR INSERT WITH (1) 1/4"  $\phi$  x 1-1/4" TRUSS HEAD MACHINE SCREW.  
NOTE: CONTRACTOR SHALL BE RESPONSIBLE FOR ISOLATING DISSIMILAR METALS

## STORM-BAR SIDE VIEW

SCALE: N.T.S.



CUSTOM HURRICANE PRODUCTS

2024 58TH AVE CIRCLE  
BRADENTON FL 34203

WWW.CUSTOMHURRICANEPRODUCTS.COM

Project Name:

'EZ-SCREEN MAX'  
POLYPROPYLENE SCREEN  
HURRICANE SHUTTER  
WITH STORM BARS  
INSTALLATION INSTRUCTIONS

Sheet Description:

Drawn: DKG  
Checked:  
Rev: 06CS-0397  
Scale: VARIES  
Date: 9/09/2010

Sheet No.:

1.4  
APR 30 2015



Product Name: EZ Screen-Max Polypropylene Screen Shutter  
Manufacturer: Custom Hurricane Products, Inc.  
Document No. 06CS-0397  
David G. Karins, P.E., FL Registration No. 52677  
Date: 4/26/2015  
Page: 1 of 5

## EVALUATION REPORT

**Code:** Florida Building Code, 2014  
**Product Category:** Shutters  
**Product Sub-Category:** Fabric Storm Panels  
**Product Name:** Ez Screen-Max Polypropylene Screen Shutter  
**Manufacturer:** Custom Hurricane Products, Inc.  
2024 58<sup>TH</sup> Ave Cir E  
Bradenton, Florida 34203  
**Fire Classification:** N/A  
**Maximum Allowable Design Pressures:** 60.0 psf and -60.0 psf

### I. Executive Summary

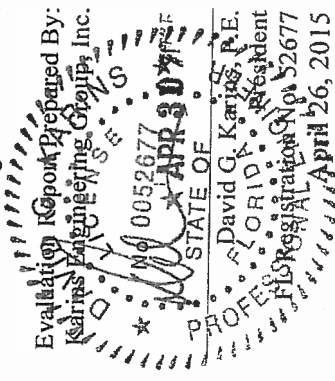
The following is a Product Control Evaluation Report issued by David G. Karins, P.E. to Custom Hurricane Products for the proposed Ez-Screen Max Polypropylene Screen Shutter. The intent of this report is to provide the necessary Code certification from a Florida Registered Professional Engineer for private residential and commercial use of the hurricane fabric screen shutters.

It is the professional opinion of KEG that this hurricane shutter system is in compliance with the Florida Building Code 2014 (the Code) and that the products are, for the purpose intended, at least equivalent to that required by the Code by evidence of test results and comparative and rational analysis.

Re-evaluation of this Product Evaluation Report is necessary following any code changes to maintain its validity.

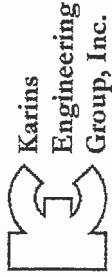
#### Applicable Florida Building Code Sections

Sections: 1609.1.2  
1609.1.2.4  
1710.8



2017 Fiesta Drive, Sarasota, Florida 34231 Toll Free (866) 927-8525  
St Petersburg, FL (941) 927-8525 Fax (941) 927-8075  
Sarasota, FL

Naples/Ft Myers, FL



Karins  
Engineering  
Group, Inc.

Product Name: Ez Screen-Max Polypropylene Screen Shutter  
Manufacturer: Custom Hurricane Products, Inc.  
Document No. 06CS-0397  
David G. Karins, PE, FL Registration No. 52677  
4/26/2015 Page: 2 of 5

## 2. Product Description & Information

**High Velocity Hurricane Zone:** Not Approved

**Outside High Velocity Hurricane Zone:** Approved

**Maximum Allowable Design Pressures:** 60.0 psf. and -60.0 psf (required for testing)

Allowable wind loads shall be in accordance with current edition of Chapter 16 of the Florida Building Code and ASCE 7, and for a basic wind speed as required by the jurisdiction where the screen will be installed and multiplied by 0.6 per 1609.1.2.4

### Product Description:

**Fabric Type:** Black colored 20 mil 100% polypropylene mesh screen.

**Mesh Construction:** ¾" basket weave; warp at 60 ends per inch; fill at 50 ends per inch; per manufactures drawings.

**Boundary Reinforcement:** 2" wide thermo-sealed polypropylene webbing front and back of screen.

#3 grommet spacing is a function of the height of the screen as determined by code.

Strap spacing is a function of the height of the screen as determined by code.

7" on center #3 Grommet spacing, 8" and 14" on center strap/bracket and strap/buckle spacing based on screen testing assembly.

**Limitations:** The product evaluation document and installation instructions are generic and do not provide information for site specific projects (Anything deviating from these documents and installation instructions). All site specific projects shall require a Florida Registered Professional Engineer Seal whom shall take all responsibilities of the product.

Glass separation is required for Wind Zone 4 and all wind zones for essential facilities.

**(Refer to Attached Drawings for additional information)**

## 3. Evaluation Analysis

Custom Hurricane Products, Inc. supplied KEG with drawings and certification letters of independent testing performed on the proposed shutter system. KEG researched and analyzed the specifications of the code tested system for the evaluation, as well as, calculated wind load capacities. All testing required by the Code and ASTM standards for these products were performed by independent testing laboratories certified by FBC and not affiliated with Custom Hurricane Products, Inc. See Appendix A for Test Report number and Tests performed.

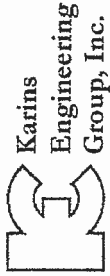
|            |                                             |
|------------|---------------------------------------------|
| TAS 201-94 | Large Missile Impact Test                   |
| TAS 202-94 | Uniform Static Air Pressure Test -- Loading |
| TAS 202-94 | Air Infiltration Test                       |
| TAS 203-94 | Cyclic Wind Pressure Loading Test           |

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(941) 927-8525 Fax (941) 927-8075

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Within these TAS testing standards and in accordance with the Florida Building Code 2010, the ASTM testing standards listed below were also performed on the comparable screen shutter.

|           |                                                                  |
|-----------|------------------------------------------------------------------|
| ASTM E330 | Structural Performance by Uniform Static Air Pressure Difference |
| ASTM E283 | Rate of Air Leakage under Specified Pressure Differences         |

This product shall have porosity of less than 10% outside of the High Velocity Hurricane Zone (HVHZ)

#### 4. Substantiating Data

##### 4.1 Test Reports

The following tests were conducted and documented by FBC Approved Testing Laboratories:

1. Product Testing Report by Architectural Testing Report No. 80976.01-401-18 dated 04/15/08  
Test Procedures Performed – TAS 201-94  
TAS 202-94  
TAS 203-94
2. Product Testing Report by Fenestration Testing Laboratory, Inc. titled Polypropylene Screen with Storm Bars dated June 5, 2007.  
Test Procedures Performed – TAS 201-94 on Storm Bars  
TAS 202-94 on Storm Bars

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## 5. Certification of Independence

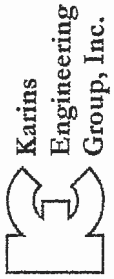
This Florida Professional Engineer does not have, nor does intend to acquire or will it acquire, a financial interest in any company manufacturing or distributing products evaluated.

This Florida Professional Engineer is not owned, operated or controlled by any company manufacturing or distributing products it evaluates.

This Florida Professional Engineer performing an evaluation does not have nor will acquire, a financial interest in any company manufacturing or distributing products for which the reports are being issued.

This Florida Professional Engineer performing an evaluation does not have, nor will acquire, a financial interest in any other entity involved in the approval process of the product.





## Appendix A

### References

- Florida Building Code 2014
- Chapter 61G20-3.005 Department of Community Affairs – Florida Building Commission B.C.I.S. Product Approval Application 61G20-3.005 Method 1-D – Product Evaluation and Quality Assurance for Optional Statewide Approval
- Drawings of Polypropylene Screen Shutter, Sheet 1, Sheet 1.2, Sheet 1.3, and Sheet 1.4
- Fastener Chart, Sheet 2.1a thru 2.1f, Sheet 2.2, and Sheet 2.3
- Fabric Specification, Sheet 3

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(941) 927-8525 Fax (941) 927-8075

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