



Product Approval
USER: Public User

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OFFICE OF THE SECRETARY

| FL # | FL29240-R4 | | | | | | | | |
|--|--|-----------------|-------------|---------|------|---------|------|---------|------|
| Application Type | Revision | | | | | | | | |
| Code Version | 2023 | | | | | | | | |
| Application Status | Approved | | | | | | | | |
| Comments | | | | | | | | | |
| Archived | <input type="checkbox"/> | | | | | | | | |
| Product Manufacturer | Sunshine Windows Manufacturing Inc. | | | | | | | | |
| Address/Phone/Email | 1745 West 33rd Place Hialeah, FL 33012 (305) 364-9952 Ext 109 noel_m_2001@yahoo.com | | | | | | | | |
| Authorized Signature | Jalal Farooq veronica@afceng.com | | | | | | | | |
| Technical Representative | | | | | | | | | |
| Address/Phone/Email | | | | | | | | | |
| Quality Assurance Representative | | | | | | | | | |
| Address/Phone/Email | | | | | | | | | |
| Category | Windows | | | | | | | | |
| Subcategory | Horizontal Slider | | | | | | | | |
| Compliance Method | Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer <input type="checkbox"/> Evaluation Report - Hardcopy Received | | | | | | | | |
| Florida Engineer or Architect Name who developed the Evaluation Report | Jalal Farooq | | | | | | | | |
| Florida License | PE-81223 | | | | | | | | |
| Quality Assurance Entity | Keystone Certifications, Inc. | | | | | | | | |
| Quality Assurance Contract Expiration Date | 02/28/2029 | | | | | | | | |
| Validated By | Abel Carrasco, PE <input checked="" type="checkbox"/> Validation Checklist - Hardcopy Received | | | | | | | | |
| Certificate of Independence | FL29240_R4_COI_SS - Certificate of Independence 2023.pdf | | | | | | | | |
| Referenced Standard and Year (of Standard) | <table border="0"> <thead> <tr> <th>Standard</th> <th>Year</th> </tr> </thead> <tbody> <tr> <td>TAS-201</td> <td>1994</td> </tr> <tr> <td>TAS-202</td> <td>1994</td> </tr> <tr> <td>TAS-203</td> <td>1994</td> </tr> </tbody> </table> | Standard | Year | TAS-201 | 1994 | TAS-202 | 1994 | TAS-203 | 1994 |
| Standard | Year | | | | | | | | |
| TAS-201 | 1994 | | | | | | | | |
| TAS-202 | 1994 | | | | | | | | |
| TAS-203 | 1994 | | | | | | | | |
| Equivalence of Product Standards Certified By | | | | | | | | | |
| Sections from the Code | | | | | | | | | |

Product Approval Method

Method 1 Option D

Date Submitted

08/20/2024

Date Validated

08/29/2024

Date Pending FBC Approval

08/31/2024

Date Approved

10/15/2024

Summary of Products

| FL # | Model, Number or Name | Description |
|--|--|---|
| 29240.1 | Series 1650 Aluminum Horizontal Rolling Window | Non-impact resistant aluminum horizontal rolling window. |
| Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +80/-100 Other: See drawing 19-01F for span vs load combinations and installation details. | | Installation Instructions FL29240_R4_II_SS - 1650 HR (NI) - DWG 19-01F 2023R1.pdf Verified By: Jalal Farooq PE # 81223 Created by Independent Third Party: Yes Evaluation Reports FL29240_R4_AE_SS - 1650 HR (NI) - PAE 2023 R1.pdf Created by Independent Third Party: Yes |
| 29240.2 | Series 1650 Aluminum Horizontal Rolling Window | Large missile impact resistant aluminum horizontal rolling window. |
| Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +65/-70 Other: See drawing 19-04F for span vs load combinations and installation details. | | Installation Instructions FL29240_R4_II_SS - 1650 HR (LMI) - DWG 19-04F 2023R1.pdf Verified By: Jalal Farooq PE # 81223 Created by Independent Third Party: Yes Evaluation Reports FL29240_R4_AE_SS - 1650 HR (LMI) - PAE 2023 R1.pdf Created by Independent Third Party: Yes |

[Back](#)

[Next](#)

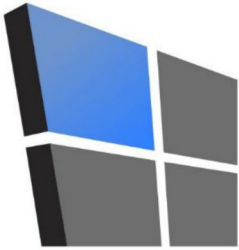
Contact Us :: [2601 Blair Stone Road, Tallahassee FL 32399](#) Phone: 850-487-1824

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Product Approval Accepts:





AL-FAROOQ CORPORATION

CONSULTING ENGINEERS & PRODUCT DEVELOPMENT

PRODUCT APPROVAL EVALUATION RULE CHAPTER #61G20-3 • METHOD 1 OPTION D

FL 29240

Date: 08/20/2024

Detailed Product Description:

Manufacturer: SUNSHINE WINDOWS MANUFACTURING INC.

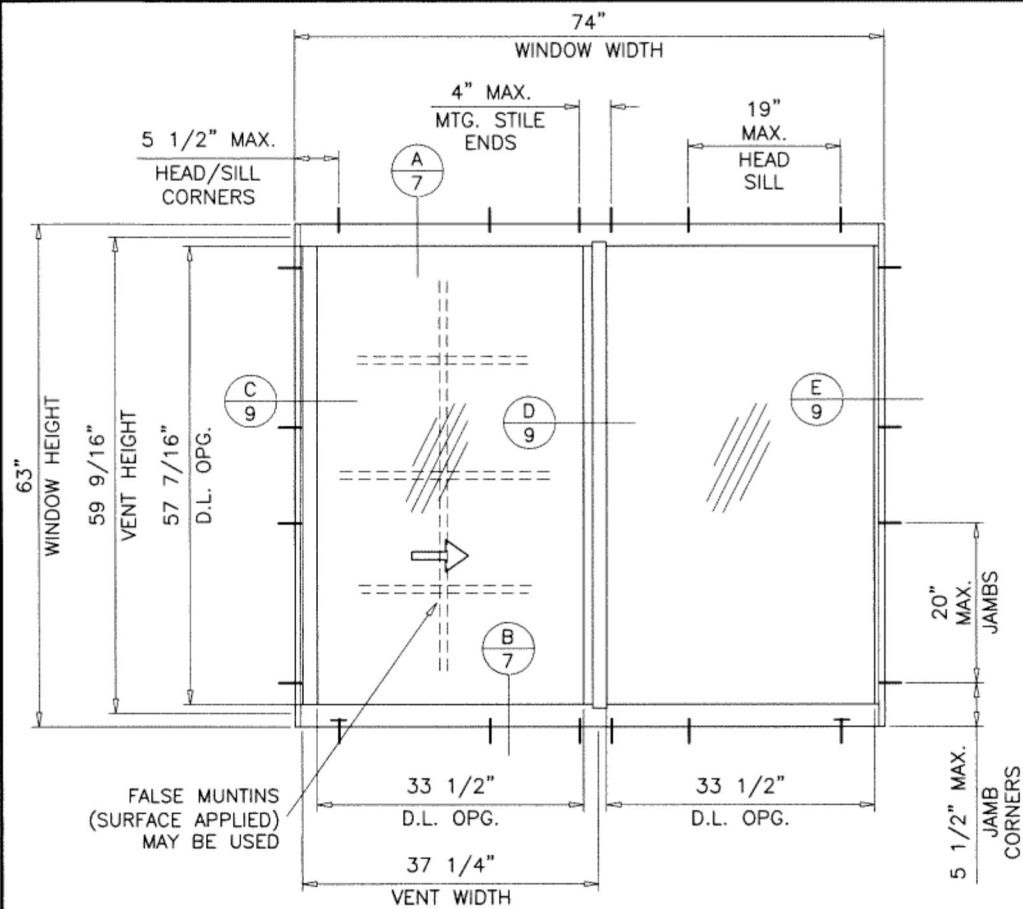
Manufacturer Address: 1785 W 33 PLACE, HIALEAH, FL 33012

Model Name: SERIES "1650" ALUMINUM HORIZONTAL ROLLING WINDOW

Maximum Load: +65 PSF, -70 PSF (Large Missile Impact)

Installation Drawings # 19-04F

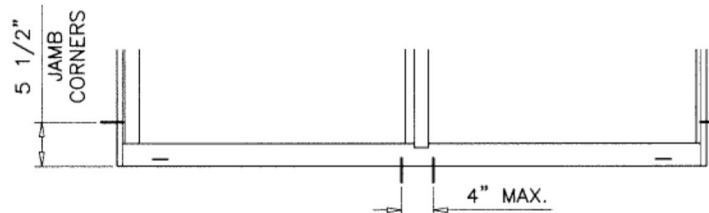
| This product complies with the High Velocity Hurricane Zone (HVHZ) testing requirements. | | | | | |
|---|---------------------------|--------------------------------------|------------------|---------------|----------------------|
| For maximum sizes, combination of span vs loads and anchor type refer to installation drawings. | | | | | |
| Comparative analysis used <u> X </u> Yes <u> </u> No | | | | | |
| Mandatory Tests (Tested in accordance with AAMA 101/I.S.2/NAFS/TAS-202) | | | | | |
| Test | Description | Test Location | Test Report Date | Test Report # | Test Sealed By |
| ASTM E283 | Air Infiltration Leakage | Fenestration Testing Laboratory, Inc | 1/7/2019 | FTL-10088 | Idalmis Ortega, PE |
| | | | 8/4/1998 | FTL-1835 | Gilbert Diamond, PE |
| | | | 7/27/2007 | FTL-5015 | Carlos Rionda, PE |
| | | | 9/18/2007 | FTL-5331 | Carlos Rionda, PE |
| | | | 12/7/2007 | FTL-5352 | Carlos Rionda, PE |
| | | QAI | 1/26/2024 | QAI-13802 | Idalmis Ortega, PE |
| ASTM E331 OR ASTM E547 & TAS 202 | Water Penetration | Fenestration Testing Laboratory, Inc | 1/7/2019 | FTL-10088 | Idalmis Ortega, P.E. |
| | | | 8/4/1998 | FTL-1835 | Gilbert Diamond, PE |
| | | | 7/27/2007 | FTL-5015 | Carlos Rionda, PE |
| | | | 9/18/2007 | FTL-5331 | Carlos Rionda, PE |
| | | | 12/7/2007 | FTL-5352 | Carlos Rionda, PE |
| ASTM E330 & TAS 202 | Uniform Static Air Press. | Fenestration Testing Laboratory, Inc | 1/7/2019 | FTL-10088 | Idalmis Ortega, P.E. |
| | | | 8/4/1998 | FTL-1835 | Gilbert Diamond, PE |
| | | | 7/27/2007 | FTL-5015 | Carlos Rionda, PE |
| | | | 9/18/2007 | FTL-5331 | Carlos Rionda, PE |
| | | | 12/7/2007 | FTL-5352 | Carlos Rionda, PE |
| | | QAI | 1/26/2024 | QAI-13802 | Idalmis Ortega, PE |
| ASTM F588 | Forced Entry Test | Fenestration Testing Laboratory, Inc | 1/7/2019 | FTL-10088 | Idalmis Ortega, P.E. |
| | | | 8/4/1998 | FTL-1835 | Gilbert Diamond, PE |
| | | | 7/27/2007 | FTL-5015 | Carlos Rionda, PE |
| | | | 9/18/2007 | FTL-5331 | Carlos Rionda, PE |
| | | | 12/7/2007 | FTL-5352 | Carlos Rionda, PE |



TYPICAL ELEVATION (TESTED UNIT)

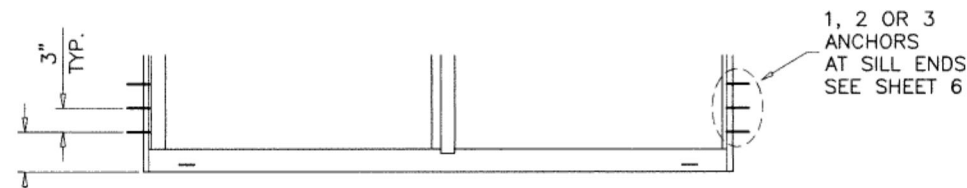
FRAME SILL TYPES '1' & '2'

ANCHORS REQD. AT SILL
SEE SHEET 3 FOR SILL TYPE '1' CAPACITY AND SHEET 7 FOR DETAIL
SEE SHEET 5 FOR SILL TYPE '2' CAPACITY AND SHEET 8 FOR DETAIL



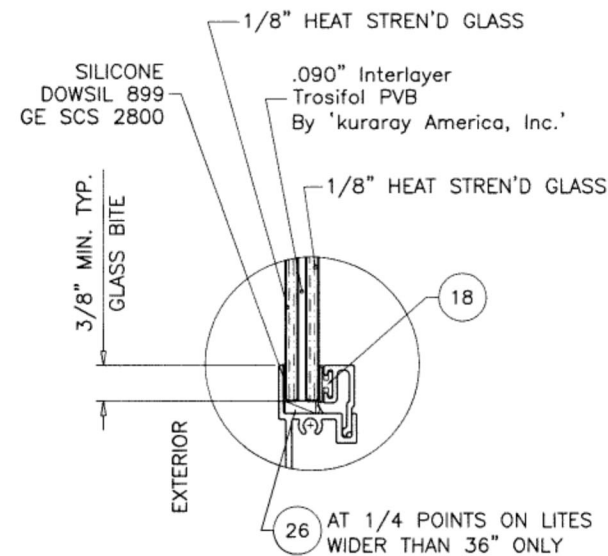
FRAME SILL TYPE '1' ONLY

ANCHORS REQD. AT MTG. STILE LOCATION ONLY
SEE SHEET 4 FOR SILL TYPE '1' CAPACITY AND SHEET 7 FOR DETAIL



FRAME SILL TYPE '1' & '3' ONLY

ANCHORS NOT REQD.
SEE SHEET 6 FOR SILL TYPE '1' CAPACITY AND SHEET 7 FOR DETAIL
SEE SHEET 6 FOR SILL TYPE '3' CAPACITY AND SHEET 8 FOR DETAIL



GLAZING DETAIL
5/16" OVERALL LAM. GLASS

SERIES-1650

ALUMINUM HORIZONTAL ROLLING WINDOW

DESIGN LOAD RATINGS FOR THESE WINDOWS TO BE AS PER CHARTS SHOWN ON SHEETS 3 THRU 6.

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE COMBINATIONS OF H.R./H.R. OR HORIZONTAL ROLLING WITH OTHER WINDOW TYPES IN MODULES OF TWO OR MORE WINDOWS USING F.B.C. APPROVED MULLIONS IN BETWEEN.

LOWER DESIGN PRESSURE FROM WINDOWS OR MULLION APPROVAL WILL APPLY TO ENTIRE SYSTEM.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2023 (8TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

1BY OR 2BY WOOD BUCKS & BUCK FASTENERS BY OTHERS, MUST BE DESIGNED AND INSTALLED ADEQUATELY TO TRANSFER APPLIED PRODUCT LOADS TO THE BUILDING STRUCTURE.

ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY. ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2023 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC. CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL.

DESIGN LOADS SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'.

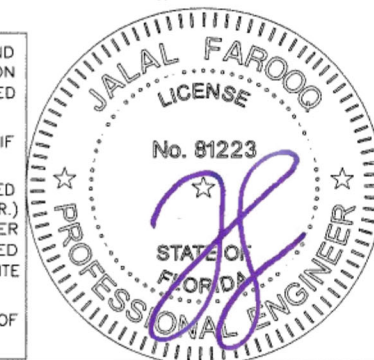
MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE. LABELING TO COMPLY WITH SECTION 1709.9.2.

THESE WINDOWS ARE RATED FOR LARGE & SMALL MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.

Sealed: 8/16/2024

FL #29240

A- CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT.
B- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
C- SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D. ENGINEER OF RECORD, ACTING AS A DELEGATED ENGINEER TO THE P.E.D. ENGINEER SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.
D- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\19-04F-SWM

SERIES-1650 ALUM. HORIZ. ROLLING WDW. (L.M.I.)
Sunshine Windows Manufacturing, Inc.
1785 West 33rd Place
Hialeah, FL. 33012
Tel. (305) 364-9952 Fax. (305) 828-5118

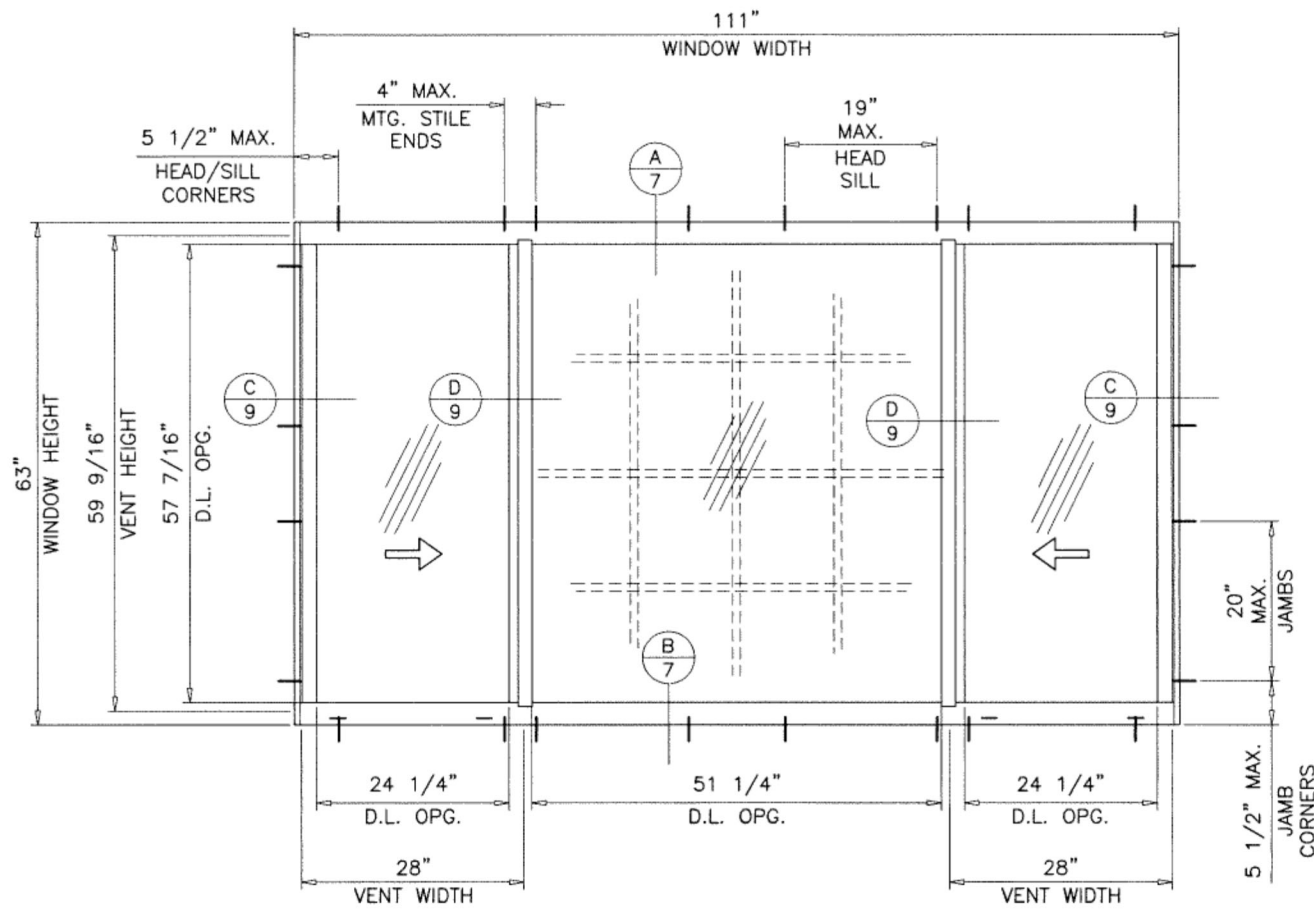
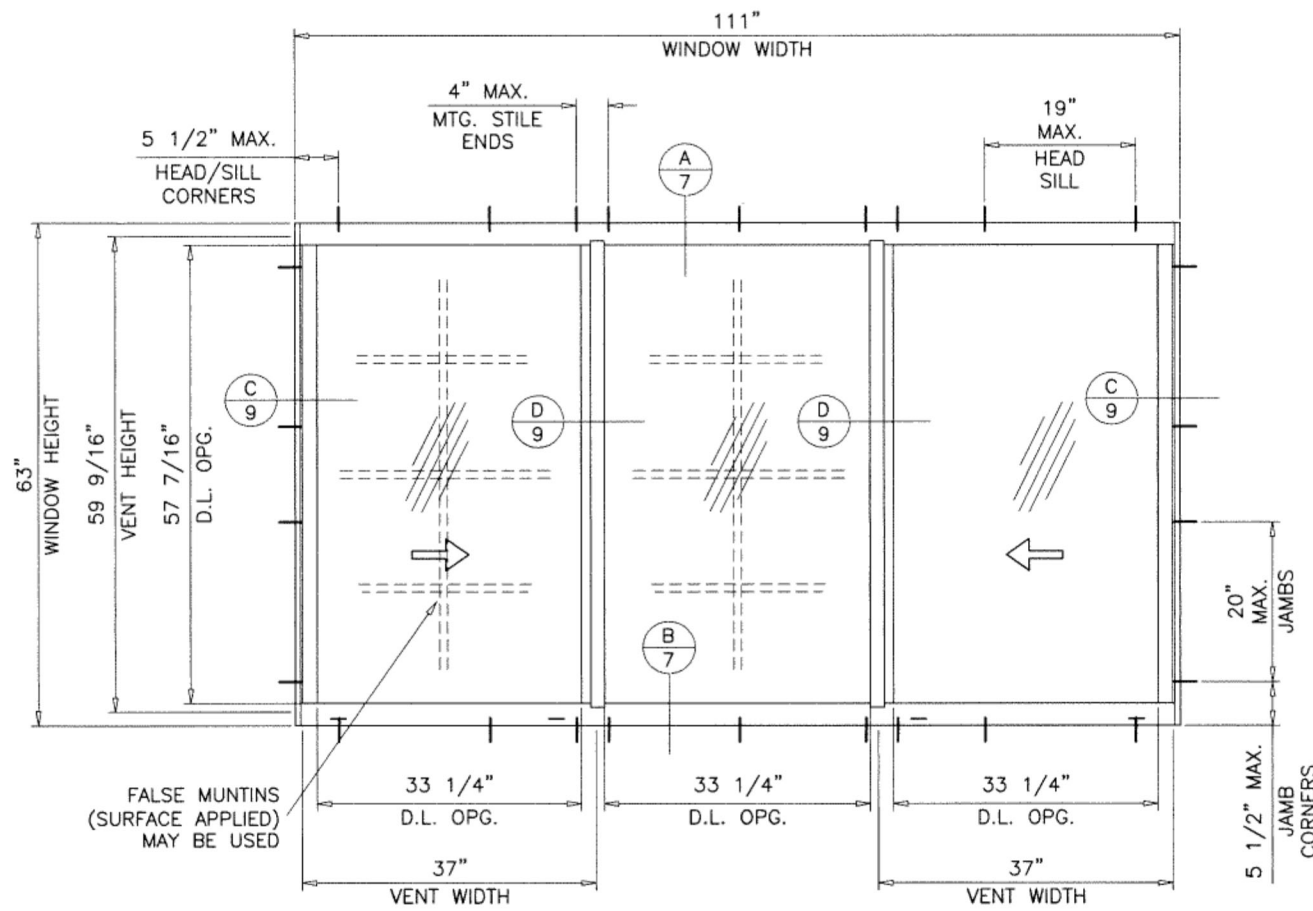
| no. | date | description | by |
|-----|----------|-----------------------------|----|
| A | 08.31.20 | UPDATED TO 2020 FBC | |
| B | 07.22.22 | SILL OPTION ADDED | |
| C | 07.21.23 | UPDATED TO 2023 FBC | |
| D | 07.11.24 | ALT. HEAD/SILL OPTION ADDED | |

revisions:

date: 01-04-19
scale: 1/2"=1'-0"
dr. by: TARIQ
chk. by:

drawing no.
19-04F

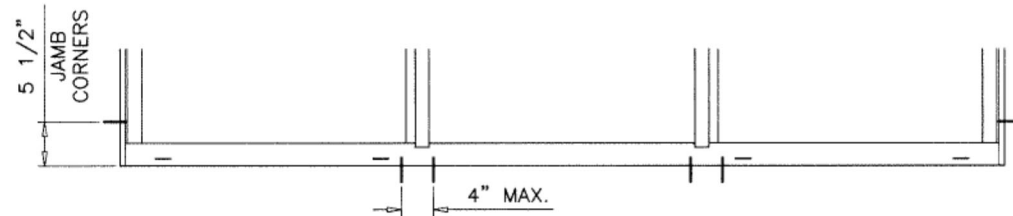
sheet 1 of 11



TYPICAL ELEVATION (TESTED UNIT)

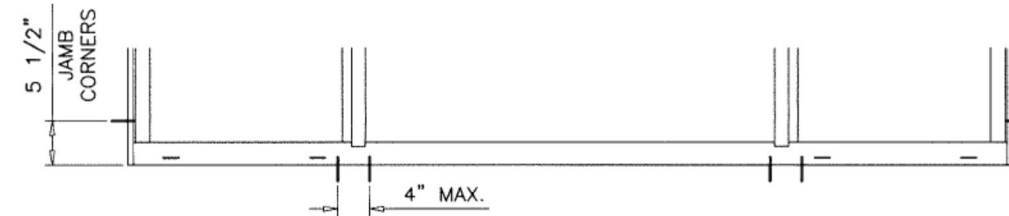
FRAME SILL TYPES '1' & '2'

ANCHORS REQD. AT SILL
 SEE SHEET 3 FOR SILL TYPE '1' CAPACITY AND SHEET 7 FOR DETAIL
 SEE SHEET 5 FOR SILL TYPE '2' CAPACITY AND SHEET 8 FOR DETAIL



FRAME SILL TYPE '1' ONLY

ANCHORS REQD. AT MTG. STILE LOCATION ONLY
 SEE SHEET 4 FOR SILL TYPE '1' CAPACITY AND SHEET 7 FOR DETAIL



Sealed: 8/16/2024

FL #29240



AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 9360 SUNSET DRIVE, SUITE 220
 MIAMI, FLORIDA 33173 (C.A.N. 3538)
 TEL. (305) 264-8100 FAX. (305) 262-6978
 COMP-ANL \ 19-04F-SWM

SERIES-1650 ALUM. HORIZ. ROLLING WDW. (L.M.I.)
Sunshine Windows Manufacturing, Inc.
 1785 West 33rd Place
 Hialeah, FL. 33012
 Tel. (305) 364-9952 Fax. (305) 828-5118

| revisions: | no. | date | by | description |
|------------|-----|------|----|-------------|
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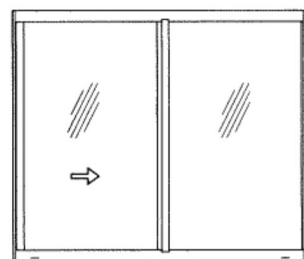
date: 01-04-19
 scale: 1/2"=1'-0"
 dr. by: TARIQ
 chk. by:

drawing no.
19-04F

sheet 2 of 11

FRAME SILL TYPE '1'

| DESIGN LOAD CAPACITY - PSF (XO OR OX SIZES) SILL ANCHORS REQD. | | | |
|--|---------|--------------------------|---------|
| WINDOW DIMS. | | 5/16" OVERALL LAM. GLASS | |
| WIDTH | HEIGHT | EXT.(+) | INT.(-) |
| 26-1/2" | 26" | 65.0 | 70.0 |
| 37" | | 65.0 | 70.0 |
| 53-1/8" | | 65.0 | 70.0 |
| 60" | | 65.0 | 70.0 |
| 74" | | 65.0 | 70.0 |
| 26-1/2" | 38-3/8" | 65.0 | 70.0 |
| 37" | | 65.0 | 70.0 |
| 53-1/8" | | 65.0 | 70.0 |
| 60" | | 65.0 | 70.0 |
| 74" | | 65.0 | 70.0 |
| 26-1/2" | 50-5/8" | 65.0 | 70.0 |
| 37" | | 65.0 | 70.0 |
| 53-1/8" | | 65.0 | 70.0 |
| 60" | | 65.0 | 70.0 |
| 74" | | 65.0 | 70.0 |
| 26-1/2" | 63" | 65.0 | 70.0 |
| 37" | | 65.0 | 70.0 |
| 53-1/8" | | 65.0 | 70.0 |
| 60" | | 65.0 | 70.0 |
| 74" | | 65.0 | 70.0 |
| 24" | 24" | 65.0 | 70.0 |
| 36" | | 65.0 | 70.0 |
| 48" | | 65.0 | 70.0 |
| 60" | | 65.0 | 70.0 |
| 72" | | 65.0 | 70.0 |
| 24" | 36" | 65.0 | 70.0 |
| 36" | | 65.0 | 70.0 |
| 48" | | 65.0 | 70.0 |
| 60" | | 65.0 | 70.0 |
| 72" | | 65.0 | 70.0 |
| 24" | 48" | 65.0 | 70.0 |
| 36" | | 65.0 | 70.0 |
| 48" | | 65.0 | 70.0 |
| 60" | | 65.0 | 70.0 |
| 72" | | 65.0 | 70.0 |
| 24" | 60" | 65.0 | 70.0 |
| 36" | | 65.0 | 70.0 |
| 48" | | 65.0 | 70.0 |
| 60" | | 65.0 | 70.0 |
| 72" | | 65.0 | 70.0 |

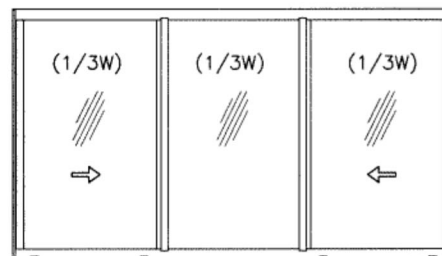


LEFT AND RIGHT VENTS TO BE OF EQUAL GLASS DLO WIDTHS

'XO OR OX'

FRAME SILL TYPE '1'

| DESIGN LOAD CAPACITY - PSF (XOX SIZES) SILL ANCHORS REQD. | | | |
|---|---------|--------------------------|---------|
| WINDOW DIMS. | | 5/16" OVERALL LAM. GLASS | |
| WIDTH | HEIGHT | EXT.(+) | INT.(-) |
| 74" | 26" | 65.0 | 70.0 |
| 106-1/4" | | 65.0 | 70.0 |
| 111" | | 65.0 | 70.0 |
| 74" | 38-3/8" | 65.0 | 70.0 |
| 106-1/4" | | 65.0 | 70.0 |
| 111" | | 65.0 | 70.0 |
| 74" | 50-5/8" | 65.0 | 70.0 |
| 106-1/4" | | 65.0 | 70.0 |
| 111" | | 65.0 | 70.0 |
| 74" | 63" | 65.0 | 70.0 |
| 106-1/4" | | 65.0 | 70.0 |
| 111" | | 65.0 | 70.0 |
| 72" | 24" | 65.0 | 70.0 |
| 84" | | 65.0 | 70.0 |
| 96" | | 65.0 | 70.0 |
| 108" | | 65.0 | 70.0 |
| 72" | 36" | 65.0 | 70.0 |
| 84" | | 65.0 | 70.0 |
| 96" | | 65.0 | 70.0 |
| 108" | | 65.0 | 70.0 |
| 72" | 48" | 65.0 | 70.0 |
| 84" | | 65.0 | 70.0 |
| 96" | | 65.0 | 70.0 |
| 108" | | 65.0 | 70.0 |
| 72" | 60" | 65.0 | 70.0 |
| 84" | | 65.0 | 70.0 |
| 96" | | 65.0 | 70.0 |
| 108" | | 65.0 | 70.0 |

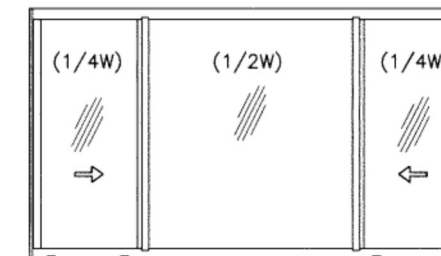


OPERATING VENTS TO BE 1/3 OF THE WINDOW WIDTH

'XOX'

FRAME SILL TYPE '1'

| DESIGN LOAD CAPACITY - PSF (XOX SIZES) SILL ANCHORS REQD. | | | |
|---|---------|--------------------------|---------|
| WINDOW DIMS. | | 5/16" OVERALL LAM. GLASS | |
| WIDTH | HEIGHT | EXT.(+) | INT.(-) |
| 74" | 26" | 65.0 | 70.0 |
| 106-1/4" | | 65.0 | 70.0 |
| 111" | | 65.0 | 70.0 |
| 74" | 38-3/8" | 65.0 | 70.0 |
| 106-1/4" | | 65.0 | 70.0 |
| 111" | | 65.0 | 70.0 |
| 74" | 50-5/8" | 65.0 | 70.0 |
| 106-1/4" | | 65.0 | 70.0 |
| 111" | | 65.0 | 70.0 |
| 74" | 63" | 65.0 | 70.0 |
| 106-1/4" | | 65.0 | 70.0 |
| 111" | | 65.0 | 70.0 |
| 72" | 24" | 65.0 | 70.0 |
| 84" | | 65.0 | 70.0 |
| 96" | | 65.0 | 70.0 |
| 108" | | 65.0 | 70.0 |
| 72" | 36" | 65.0 | 70.0 |
| 84" | | 65.0 | 70.0 |
| 96" | | 65.0 | 70.0 |
| 108" | | 65.0 | 70.0 |
| 72" | 48" | 65.0 | 70.0 |
| 84" | | 65.0 | 70.0 |
| 96" | | 65.0 | 70.0 |
| 108" | | 65.0 | 70.0 |
| 72" | 60" | 65.0 | 70.0 |
| 84" | | 65.0 | 70.0 |
| 96" | | 65.0 | 70.0 |
| 108" | | 65.0 | 70.0 |



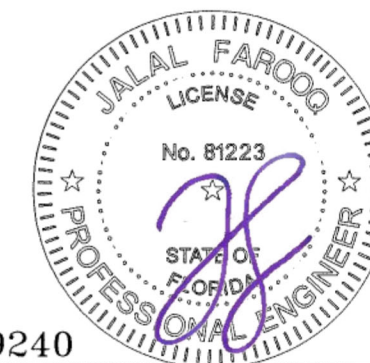
OPERATING VENTS TO BE 1/4 OF THE WINDOW WIDTH

'XOX'

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-09 (3 SEC. GUSTS)
AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCA05-DEC-219

Sealed: 8/16/2024

FL #29240



af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\19-04F-SWM

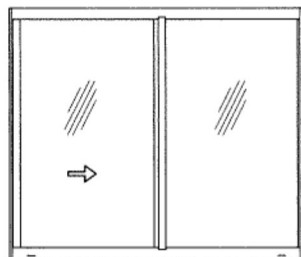
SERIES-1650 ALUM HORIZ. ROLLING WDW. (L.M.I.)
Sunshine Windows Manufacturing, Inc.
1785 West 33rd Place
Hialeah, FL. 33012
Tel. (305) 364-9952 Fax. (305) 828-5118

| revisions: | no | date | by | description |
|------------|----|------|----|-------------|
| | | | | |
| | | | | |
| | | | | |
| | | | | |

date: 01-04-19
scale: -
dr. by: TARIO
chk. by:
drawing no.
19-04F
sheet 3 of 11

FRAME SILL TYPE '1'

| DESIGN LOAD CAPACITY - PSF (XO OR OX SIZES) | | | |
|--|---------|--------------------------|---------|
| SILL ANCHORS AT MTG. STILE ONLY | | | |
| WINDOW DIMS. | | 5/16" OVERALL LAM. GLASS | |
| WIDTH | HEIGHT | EXT.(+) | INT.(-) |
| 26-1/2" | 26" | 65.0 | 70.0 |
| 37" | | 65.0 | 70.0 |
| 53-1/8" | | 65.0 | 70.0 |
| 60" | | 65.0 | 70.0 |
| 74" | | 65.0 | 70.0 |
| 26-1/2" | 38-3/8" | 65.0 | 70.0 |
| 37" | | 65.0 | 70.0 |
| 53-1/8" | | 65.0 | 70.0 |
| 60" | | 65.0 | 70.0 |
| 74" | | 65.0 | 70.0 |
| 26-1/2" | 50-5/8" | 65.0 | 70.0 |
| 37" | | 65.0 | 70.0 |
| 53-1/8" | | 65.0 | 70.0 |
| 60" | | 65.0 | 70.0 |
| 74" | | 65.0 | 70.0 |
| 26-1/2" | 63" | 65.0 | 70.0 |
| 37" | | 65.0 | 70.0 |
| 53-1/8" | | 65.0 | 70.0 |
| 60" | | 65.0 | 70.0 |
| 74" | | 64.0 | 64.0 |
| 24" | 24" | 65.0 | 70.0 |
| 36" | | 65.0 | 70.0 |
| 48" | | 65.0 | 70.0 |
| 60" | | 65.0 | 70.0 |
| 72" | | 65.0 | 70.0 |
| 24" | 36" | 65.0 | 70.0 |
| 36" | | 65.0 | 70.0 |
| 48" | | 65.0 | 70.0 |
| 60" | | 65.0 | 70.0 |
| 72" | | 65.0 | 70.0 |
| 24" | 48" | 65.0 | 70.0 |
| 36" | | 65.0 | 70.0 |
| 48" | | 65.0 | 70.0 |
| 60" | | 65.0 | 70.0 |
| 72" | | 65.0 | 70.0 |
| 24" | 60" | 65.0 | 70.0 |
| 36" | | 65.0 | 70.0 |
| 48" | | 65.0 | 70.0 |
| 60" | | 65.0 | 70.0 |
| 72" | | 65.0 | 69.1 |

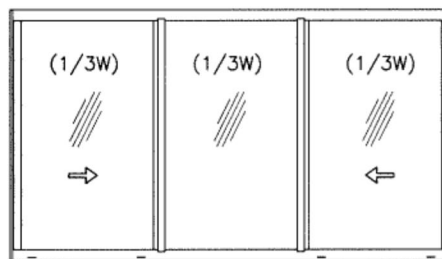


LEFT AND RIGHT VENTS TO BE OF EQUAL GLASS DLO WIDTHS

'XO OR OX'

FRAME SILL TYPE '1'

| DESIGN LOAD CAPACITY - PSF (XOX SIZES) | | | |
|---|---------|--------------------------|---------|
| SILL ANCHORS AT MTG. STILE ONLY | | | |
| WINDOW DIMS. | | 5/16" OVERALL LAM. GLASS | |
| WIDTH | HEIGHT | EXT.(+) | INT.(-) |
| 74" | 26" | 65.0 | 70.0 |
| 106-1/4" | | 65.0 | 70.0 |
| 111" | | 65.0 | 70.0 |
| 74" | 38-3/8" | 65.0 | 70.0 |
| 106-1/4" | | 65.0 | 70.0 |
| 111" | | 65.0 | 70.0 |
| 74" | 50-5/8" | 65.0 | 70.0 |
| 106-1/4" | | 65.0 | 70.0 |
| 111" | | 65.0 | 70.0 |
| 74" | 63" | 65.0 | 70.0 |
| 106-1/4" | | 65.0 | 66.9 |
| 111" | | 64.0 | 64.0 |
| 72" | 24" | 65.0 | 70.0 |
| 84" | | 65.0 | 70.0 |
| 96" | | 65.0 | 70.0 |
| 108" | | 65.0 | 70.0 |
| 72" | 36" | 65.0 | 70.0 |
| 84" | | 65.0 | 70.0 |
| 96" | | 65.0 | 70.0 |
| 108" | | 65.0 | 70.0 |
| 72" | 48" | 65.0 | 70.0 |
| 84" | | 65.0 | 70.0 |
| 96" | | 65.0 | 70.0 |
| 108" | | 65.0 | 70.0 |
| 72" | 60" | 65.0 | 70.0 |
| 84" | | 65.0 | 70.0 |
| 96" | | 65.0 | 70.0 |
| 108" | | 65.0 | 69.1 |

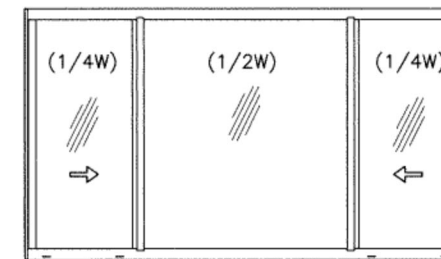


OPERATING VENTS TO BE 1/3 OF THE WINDOW WIDTH

'XOX'

FRAME SILL TYPE '1'

| DESIGN LOAD CAPACITY - PSF (XOX SIZES) | | | |
|---|---------|--------------------------|---------|
| SILL ANCHORS AT MTG. STILE ONLY | | | |
| WINDOW DIMS. | | 5/16" OVERALL LAM. GLASS | |
| WIDTH | HEIGHT | EXT.(+) | INT.(-) |
| 74" | 26" | 65.0 | 70.0 |
| 106-1/4" | | 65.0 | 70.0 |
| 111" | | 65.0 | 70.0 |
| 74" | 38-3/8" | 65.0 | 70.0 |
| 106-1/4" | | 65.0 | 70.0 |
| 111" | | 65.0 | 70.0 |
| 74" | 50-5/8" | 65.0 | 70.0 |
| 106-1/4" | | 65.0 | 70.0 |
| 111" | | 65.0 | 70.0 |
| 74" | 63" | 65.0 | 70.0 |
| 106-1/4" | | 59.4 | 59.4 |
| 111" | | 56.9 | 56.9 |
| 72" | 24" | 65.0 | 70.0 |
| 84" | | 65.0 | 70.0 |
| 96" | | 65.0 | 70.0 |
| 108" | | 65.0 | 70.0 |
| 72" | 36" | 65.0 | 70.0 |
| 84" | | 65.0 | 70.0 |
| 96" | | 65.0 | 70.0 |
| 108" | | 65.0 | 70.0 |
| 72" | 48" | 65.0 | 70.0 |
| 84" | | 65.0 | 70.0 |
| 96" | | 65.0 | 70.0 |
| 108" | | 65.0 | 70.0 |
| 72" | 60" | 65.0 | 70.0 |
| 84" | | 65.0 | 70.0 |
| 96" | | 65.0 | 69.1 |
| 108" | | 61.4 | 61.4 |



OPERATING VENTS TO BE 1/4 OF THE WINDOW WIDTH

'XOX'

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-09 (3 SEC. GUSTS)
AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCA05-DEC-219

Sealed: 8/16/2024

FL #29240



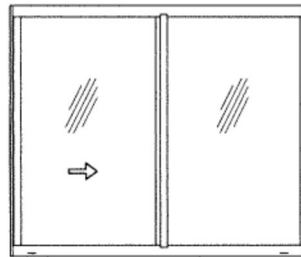
af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\19-04F-SWM

SERIES-1650 ALUM HORIZ. ROLLING WDW. (L.M.I.)
Sunshine Windows Manufacturing, Inc.
1785 West 33rd Place
Hialeah, FL. 33012
Tel. (305) 364-9952 Fax. (305) 828-5118

| | | | | |
|-------------|----------|----------|----|-------------|
| revisions: | no. | date | by | description |
| | | | | |
| date: | 01-04-19 | scale: | - | |
| dr. by: | TARIQ | chk. by: | | |
| drawing no. | 19-04F | | | |
| sheet | 4 of 11 | | | |

FRAME SILL TYPE '2'

| DESIGN LOAD CAPACITY - PSF (XO OR OX SIZES) SILL ANCHORS REQD. | | | |
|--|---------|--------------------------|---------|
| WINDOW DIMS. | | 5/16" OVERALL LAM. GLASS | |
| WIDTH | HEIGHT | EXT.(+) | INT.(-) |
| 26-1/2" | 26" | 65.0 | 70.0 |
| 37" | | 65.0 | 70.0 |
| 53-1/8" | | 65.0 | 70.0 |
| 60" | | 65.0 | 70.0 |
| 74" | | 65.0 | 70.0 |
| 26-1/2" | 38-3/8" | 65.0 | 70.0 |
| 37" | | 65.0 | 70.0 |
| 53-1/8" | | 65.0 | 70.0 |
| 60" | | 65.0 | 70.0 |
| 74" | | 65.0 | 70.0 |
| 26-1/2" | 50-5/8" | 65.0 | 70.0 |
| 37" | | 65.0 | 70.0 |
| 53-1/8" | | 65.0 | 70.0 |
| 60" | | 65.0 | 70.0 |
| 74" | | 65.0 | 70.0 |
| 26-1/2" | 63" | 65.0 | 70.0 |
| 37" | | 65.0 | 70.0 |
| 53-1/8" | | 65.0 | 70.0 |
| 60" | | 65.0 | 70.0 |
| 74" | | 65.0 | 70.0 |
| 24" | 24" | 65.0 | 70.0 |
| 36" | | 65.0 | 70.0 |
| 48" | | 65.0 | 70.0 |
| 60" | | 65.0 | 70.0 |
| 72" | | 65.0 | 70.0 |
| 24" | 36" | 65.0 | 70.0 |
| 36" | | 65.0 | 70.0 |
| 48" | | 65.0 | 70.0 |
| 60" | | 65.0 | 70.0 |
| 72" | | 65.0 | 70.0 |
| 24" | 48" | 65.0 | 70.0 |
| 36" | | 65.0 | 70.0 |
| 48" | | 65.0 | 70.0 |
| 60" | | 65.0 | 70.0 |
| 72" | | 65.0 | 70.0 |
| 24" | 60" | 65.0 | 70.0 |
| 36" | | 65.0 | 70.0 |
| 48" | | 65.0 | 70.0 |
| 60" | | 65.0 | 70.0 |
| 72" | | 65.0 | 70.0 |



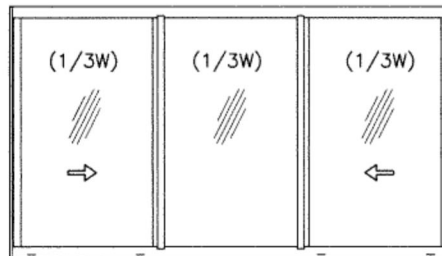
LEFT AND RIGHT VENTS TO BE OF EQUAL GLASS DLO WIDTHS

'XO OR OX'

ALL EXT.(+) LOADS SHOWN IN CHART ABOVE ARE FOR WINDOWS WITH APPLIED RISER AT FRAME SILL TYPE '2'.
FOR FRAME SILL WITHOUT RISER LIMIT EXT.(+) LOADS TO 53.3 PSF SEE DETAIL ON SHEET 8.

FRAME SILL TYPE '2'

| DESIGN LOAD CAPACITY - PSF (XOX SIZES) SILL ANCHORS REQD. | | | |
|---|---------|--------------------------|---------|
| WINDOW DIMS. | | 5/16" OVERALL LAM. GLASS | |
| WIDTH | HEIGHT | EXT.(+) | INT.(-) |
| 74" | 26" | 60.0 | 60.0 |
| 74" | 38-3/8" | 60.0 | 60.0 |
| 74" | 50-5/8" | 60.0 | 60.0 |
| 74" | 63" | 60.0 | 60.0 |
| 72" | 24" | 60.0 | 60.0 |
| 84" | | 60.0 | 60.0 |
| 72" | 36" | 60.0 | 60.0 |
| 84" | | 60.0 | 60.0 |
| 72" | 48" | 60.0 | 60.0 |
| 84" | | 60.0 | 60.0 |
| 72" | 60" | 60.0 | 60.0 |
| 84" | | 60.0 | 60.0 |



OPERATING VENTS TO BE 1/3 OF THE WINDOW WIDTH

'XOX'

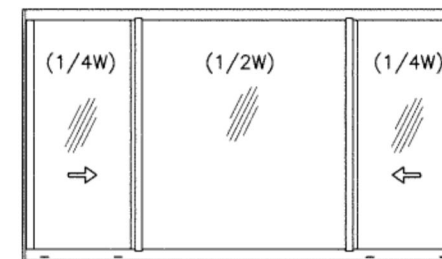
APPLIED RISER AT FRAME SILL TYPE '2' NOT REQUIRED

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300-09 (3 SEC. GUSTS) AND FLORIDA BUILDING COMMISSION DECLARATORY STATEMENT DCA05-DEC-219

Sealed: 8/16/2024

FRAME SILL TYPE '2'

| DESIGN LOAD CAPACITY - PSF (XOX SIZES) SILL ANCHORS REQD. | | | |
|---|---------|--------------------------|---------|
| WINDOW DIMS. | | 5/16" OVERALL LAM. GLASS | |
| WIDTH | HEIGHT | EXT.(+) | INT.(-) |
| 74" | 26" | 60.0 | 60.0 |
| 106-1/4" | | 60.0 | 60.0 |
| 111" | | 60.0 | 60.0 |
| 74" | 38-3/8" | 60.0 | 60.0 |
| 106-1/4" | | 60.0 | 60.0 |
| 111" | | 60.0 | 60.0 |
| 74" | 50-5/8" | 60.0 | 60.0 |
| 106-1/4" | | 60.0 | 60.0 |
| 111" | | 60.0 | 60.0 |
| 74" | 63" | 60.0 | 60.0 |
| 106-1/4" | | 56.8 | 56.8 |
| 111" | | 56.0 | 56.0 |
| 72" | 24" | 60.0 | 60.0 |
| 84" | | 60.0 | 60.0 |
| 96" | | 60.0 | 60.0 |
| 108" | | 60.0 | 60.0 |
| 108" | | 60.0 | 60.0 |
| 72" | 36" | 60.0 | 60.0 |
| 84" | | 60.0 | 60.0 |
| 96" | | 60.0 | 60.0 |
| 108" | | 60.0 | 60.0 |
| 108" | | 60.0 | 60.0 |
| 72" | 48" | 60.0 | 60.0 |
| 84" | | 60.0 | 60.0 |
| 96" | | 60.0 | 60.0 |
| 108" | | 60.0 | 60.0 |
| 108" | | 60.0 | 60.0 |
| 72" | 60" | 60.0 | 60.0 |
| 84" | | 60.0 | 60.0 |
| 96" | | 60.0 | 60.0 |
| 108" | | 60.0 | 60.0 |
| 108" | | 56.4 | 56.4 |



OPERATING VENTS TO BE 1/4 OF THE WINDOW WIDTH

'XOX'



FL #29240

af c
AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 9360 SUNSET DRIVE, SUITE 220 (C.A.N. 3538)
 MIAMI, FLORIDA 33173 FAX. (305) 262-6978
 TEL. (305) 264-8100 COMP-ANL\19-04F-SWM

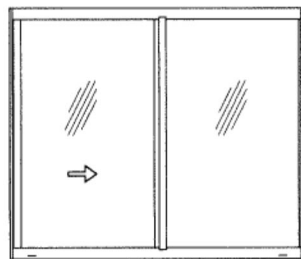
SERIES-1650 ALUM. HORIZ. ROLLING WDW. (L.M.I.)
Sunshine Windows Manufacturing, Inc.
 1785 West 33rd Place
 Hialeah, FL. 33012
 Tel. (305) 364-9952 Fax. (305) 828-5118

| revisions: | no. | date | description |
|------------|-----|------|-------------|
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| | | | |

date: 01-04-19
 scale: -
 dr. by: TARIQ
 chk. by:
 drawing no. 19-04F
 sheet 5 of 11

FRAME SILL TYPE '1'

| DESIGN LOAD CAPACITY - PSF (XO OR OX SIZES) SILL ANCHORS NOT REQD. | | | | |
|--|---------|--------------------------|---------|-----------------------------|
| WINDOW DIMS. | | 5/16" OVERALL LAM. GLASS | | NO. OF ANCHORS AT SILL ENDS |
| WIDTH | HEIGHT | EXT.(+) | INT.(-) | |
| 26-1/2" | 26" | 65.0 | 70.0 | 1 |
| 37" | | 65.0 | 70.0 | 2 |
| 53-1/8" | | 65.0 | 70.0 | 2 |
| 60" | | 65.0 | 70.0 | 2 |
| 74" | | 65.0 | 69.1 | 3 |
| 26-1/2" | 38-3/8" | 65.0 | 70.0 | 1 |
| 37" | | 65.0 | 70.0 | 2 |
| 53-1/8" | | 65.0 | 70.0 | 2 |
| 60" | | 65.0 | 70.0 | 2 |
| 74" | | 58.5 | 58.5 | 3 |
| 26-1/2" | 50-5/8" | 65.0 | 70.0 | 1 |
| 37" | | 65.0 | 70.0 | 2 |
| 53-1/8" | | 65.0 | 70.0 | 2 |
| 60" | | 62.6 | 62.6 | 3 |
| 74" | | 50.8 | 50.8 | 3 |
| 26-1/2" | 63" | 65.0 | 70.0 | 2 |
| 37" | | 65.0 | 70.0 | 2 |
| 53-1/8" | | 62.4 | 62.4 | 3 |
| 60" | | 55.2 | 55.2 | 3 |
| 74" | | 44.6 | 44.6 | 3 |
| 24" | 24" | 65.0 | 70.0 | 1 |
| 36" | | 65.0 | 70.0 | 1 |
| 48" | | 65.0 | 70.0 | 2 |
| 60" | | 65.0 | 70.0 | 2 |
| 72" | | 65.0 | 70.0 | 2 |
| 24" | 36" | 65.0 | 70.0 | 1 |
| 36" | | 65.0 | 70.0 | 2 |
| 48" | | 65.0 | 70.0 | 2 |
| 60" | | 65.0 | 70.0 | 2 |
| 72" | | 61.9 | 61.9 | 3 |
| 24" | 48" | 65.0 | 70.0 | 1 |
| 36" | | 65.0 | 70.0 | 2 |
| 48" | | 65.0 | 70.0 | 2 |
| 60" | | 64.4 | 64.4 | 3 |
| 72" | | 53.7 | 53.7 | 3 |
| 24" | 60" | 65.0 | 70.0 | 1 |
| 36" | | 65.0 | 70.0 | 2 |
| 48" | | 65.0 | 70.0 | 2 |
| 60" | | 56.8 | 56.8 | 3 |
| 72" | | 47.4 | 47.4 | 3 |



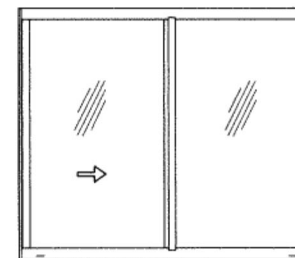
LEFT AND RIGHT VENTS TO BE OF EQUAL GLASS DLO WIDTHS

'XO OR OX'

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-09 (3 SEC. GUSTS)
AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCA05-DEC-219

FRAME SILL TYPE '3'

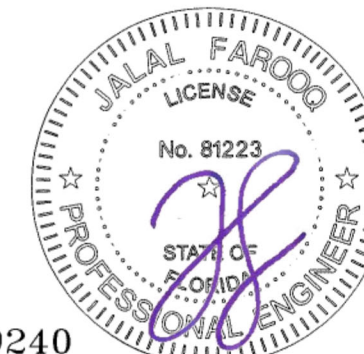
| DESIGN LOAD CAPACITY - PSF (XO OR OX SIZES) SILL ANCHORS NOT REQD. | | | | |
|--|---------|--------------------------|---------|-----------------------------|
| WINDOW DIMS. | | 5/16" OVERALL LAM. GLASS | | NO. OF ANCHORS AT SILL ENDS |
| WIDTH | HEIGHT | EXT.(+) | INT.(-) | |
| 26-1/2" | 26" | 50.0 | 60.0 | 1 |
| 37" | | 50.0 | 60.0 | 2 |
| 53-1/8" | | 50.0 | 60.0 | 2 |
| 60" | | 50.0 | 60.0 | 2 |
| 26-1/2" | | 38-3/8" | 50.0 | 60.0 |
| 37" | 50.0 | | 60.0 | 2 |
| 53-1/8" | 50.0 | | 60.0 | 2 |
| 60" | 50.0 | | 60.0 | 2 |
| 26-1/2" | 50-5/8" | | 50.0 | 60.0 |
| 37" | | 50.0 | 60.0 | 2 |
| 53-1/8" | | 50.0 | 60.0 | 2 |
| 60" | | 50.0 | 60.0 | 3 |
| 26-1/2" | | 63" | 50.0 | 60.0 |
| 37" | 50.0 | | 60.0 | 2 |
| 53-1/8" | 50.0 | | 60.0 | 3 |
| 60" | 50.0 | | 54.9 | 3 |
| 24" | 24" | | 50.0 | 60.0 |
| 36" | | 50.0 | 60.0 | 1 |
| 48" | | 50.0 | 60.0 | 2 |
| 60" | | 50.0 | 60.0 | 2 |
| 72" | | 50.0 | 60.0 | 2 |
| 24" | 36" | 50.0 | 60.0 | 1 |
| 36" | | 50.0 | 60.0 | 2 |
| 48" | | 50.0 | 60.0 | 2 |
| 60" | | 50.0 | 60.0 | 2 |
| 72" | | 50.0 | 55.6 | 3 |
| 24" | 48" | 50.0 | 60.0 | 1 |
| 36" | | 50.0 | 60.0 | 2 |
| 48" | | 50.0 | 60.0 | 2 |
| 60" | | 50.0 | 60.0 | 3 |
| 72" | | 41.7 | 41.7 | 3 |
| 24" | 60" | 50.0 | 60.0 | 1 |
| 36" | | 50.0 | 60.0 | 2 |
| 48" | | 50.0 | 60.0 | 2 |
| 60" | | 50.0 | 57.7 | 3 |
| 72" | | 33.4 | 33.4 | 3 |



LEFT AND RIGHT VENTS TO BE OF EQUAL GLASS DLO WIDTHS

'XO OR OX'

Sealed: 8/16/2024



FL #29240

afc

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL \ 19-04F-SWM

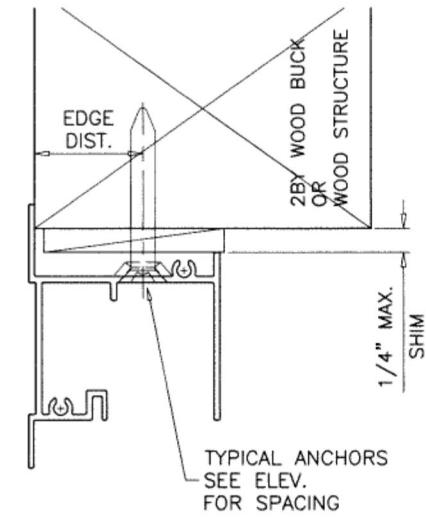
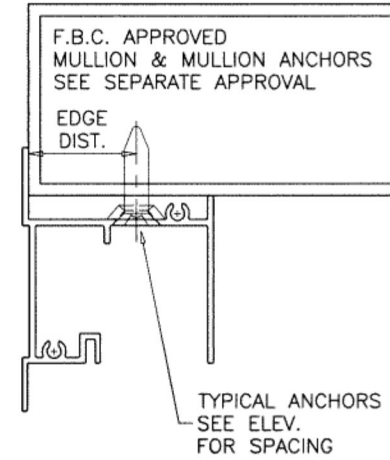
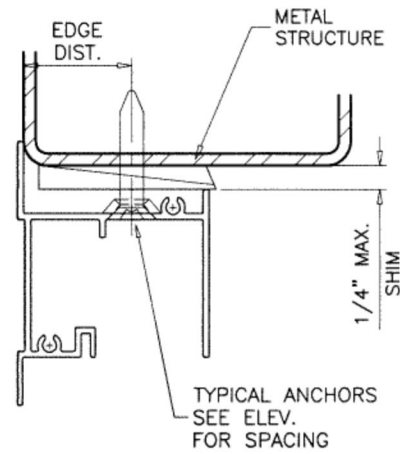
SERIES-1650 ALUM. HORIZ. ROLLING WDW. (L.M.I.)
Sunshine Windows Manufacturing, Inc.
1785 West 33rd Place
Hialeah, FL. 33012
Tel. (305) 364-9952 Fax. (305) 828-5118

| no. | date | description |
|-----|------|-------------|
| | | |
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| | | |

date: 01-04-19
scale: -
dr. by: TARIQ
chk. by:

drawing no.
19-04F

sheet 6 of 11



WOOD BUCKS AND METAL STRUCTURE NOT BY SUNSHINE WDWs. MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
 1-1/2" MIN. PENETRATION INTO WOOD (HEAD/SILL/JAMBS)

THRU 1BY BUCKS INTO CONC. OR BLOCKS
 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
 1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)

DIRECTLY INTO CONCRETE OR BLOCKS
 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
 1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)

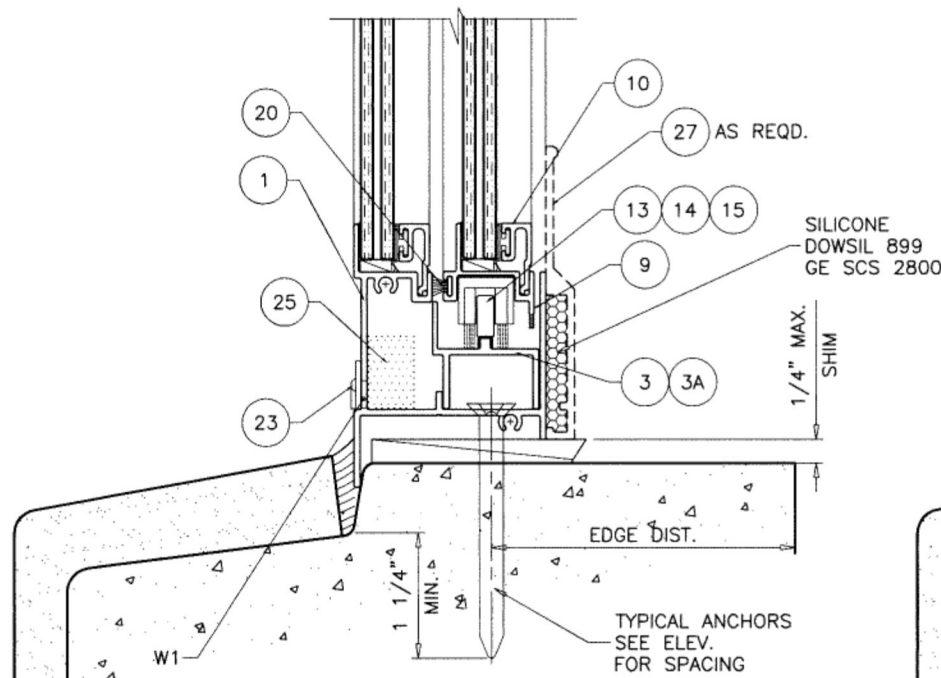
1/4" DIA. TEKS OR SELF-DRILLING SCREWS (GRADE 5 CRS)
 INTO F.B.C. APPROVED MULLIONS
 OR
 INTO METAL STRUCTURES (HEAD/SILL/JAMBS)
 (3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
 ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
 STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL EDGE DISTANCE

INTO CONCRETE AND BLOCKS = 2-1/2" MIN.
 INTO WOOD STRUCTURE = 1" MIN.
 INTO METAL STRUCTURE = 3/4" MIN.

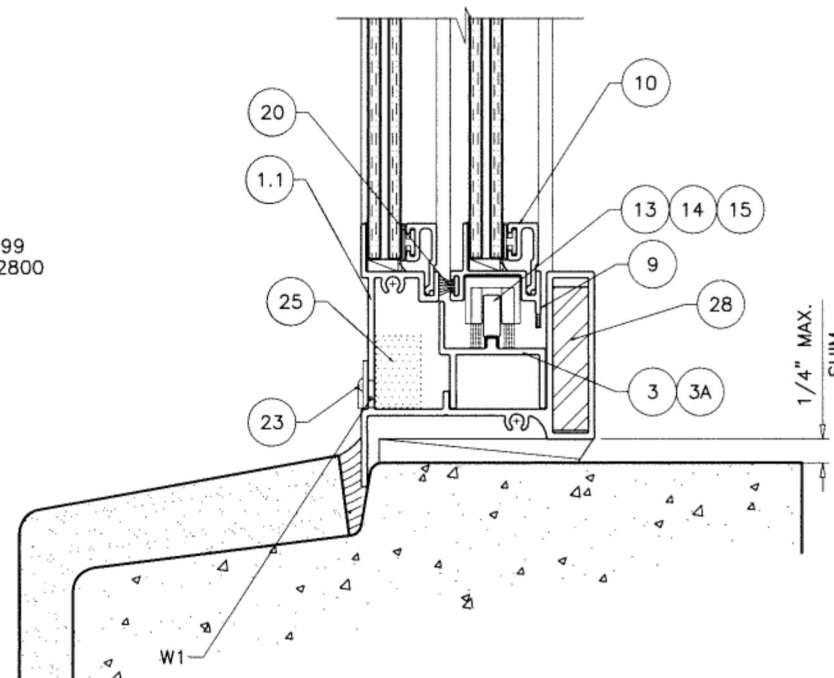
WOOD AT HEAD, SILL OR JAMBS SG = 0.55 MIN.
 CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.
 C-90 HOLLOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.

APPLIED RISER AT FRAME SILL TYPE '2'.
 OPTIONAL AT XO OR OX WINDOWS ONLY
 SEE CHART ON SHEET 5 FOR DESIGN LOAD
 LIMITATIONS WITH OR WITHOUT APPLIED RISER.
 RISER NOT REQD. AT XOX WINDOWS.



FRAME SILL TYPE '2'

SILL WITH ANCHORS SEE SHEET 5 FOR CAPACITY



FRAME SILL TYPE '3'

SILL WITHOUT ANCHORS SEE SHEET 6 FOR CAPACITY

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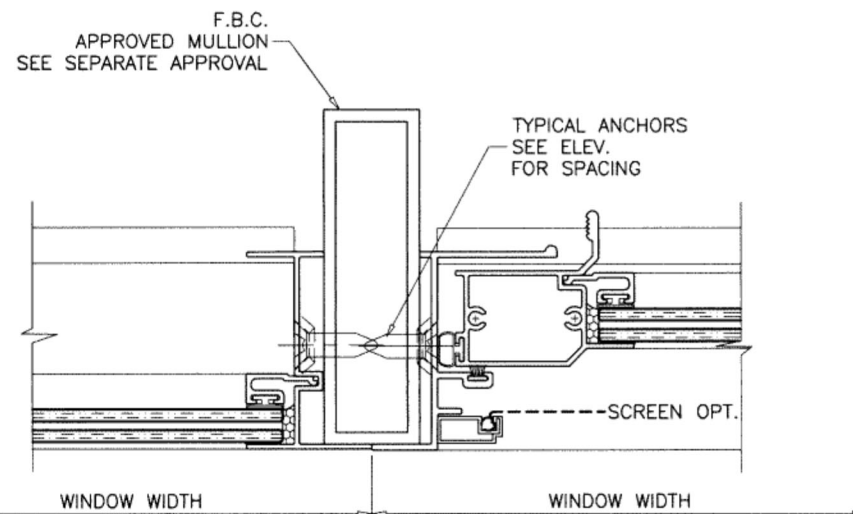
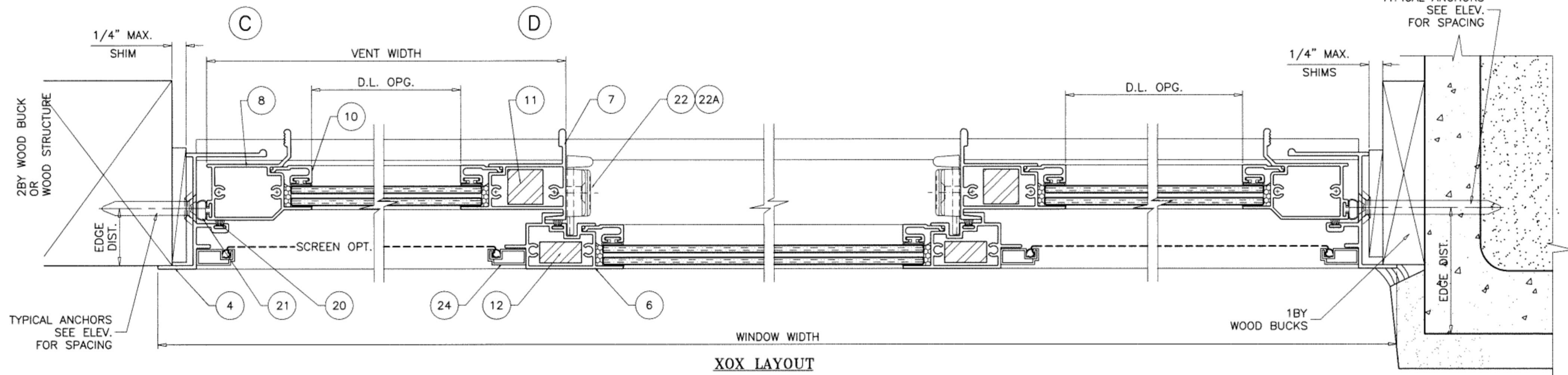
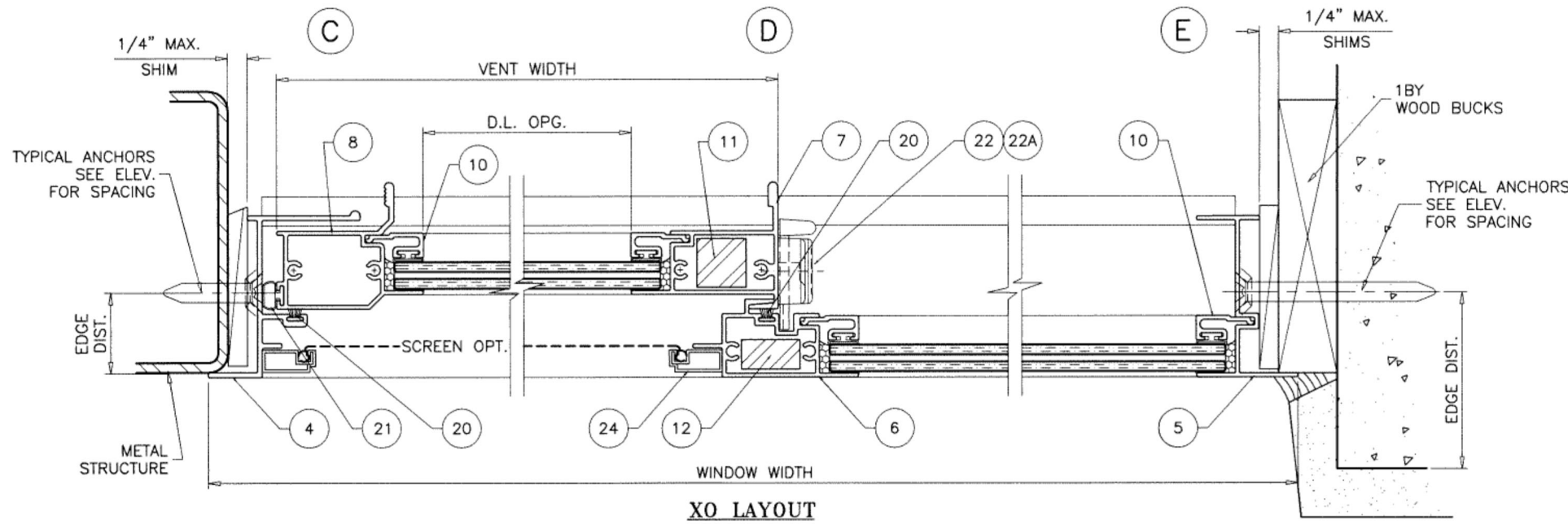


FL #29240

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AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 9360 SUNSET DRIVE, SUITE 220
 MIAMI, FLORIDA 33173 (C.A.N. 3538)
 TEL. (305) 264-8100 FAX. (305) 262-6978
 COMP-ANL\19-04F-SWM

SERIES-1650 ALUM. HORIZ. ROLLING WDW. (L.M.I.)
Sunshine Windows Manufacturing, Inc.
 1785 West 33rd Place
 Hialeah, FL. 33012
 Tel. (305) 364-9952 Fax. (305) 828-5118

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| revisions: | no. | date | description |
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| date: | 01-04-19 | scale: | 1/2" = 1" |
| dr. by: | TARIQ | chk. by: | |
| drawing no. | 19-04F | | |
| sheet | 8 of 11 | | |



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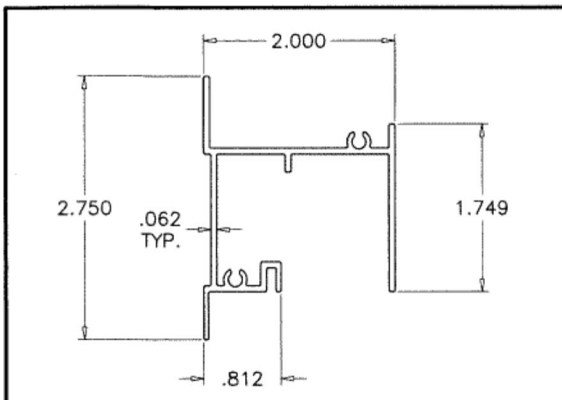
SERIES-1650 ALUM HORIZ. ROLLING WDW. (L.M.I.)
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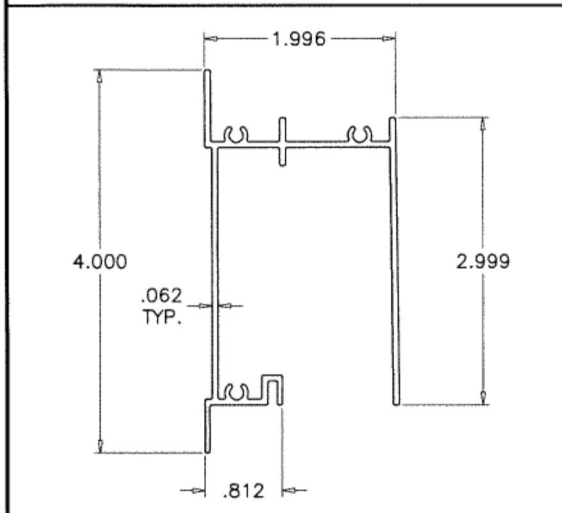
date: 01-04-19
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dr. by: TARIO
chk. by:

drawing no.
19-04F

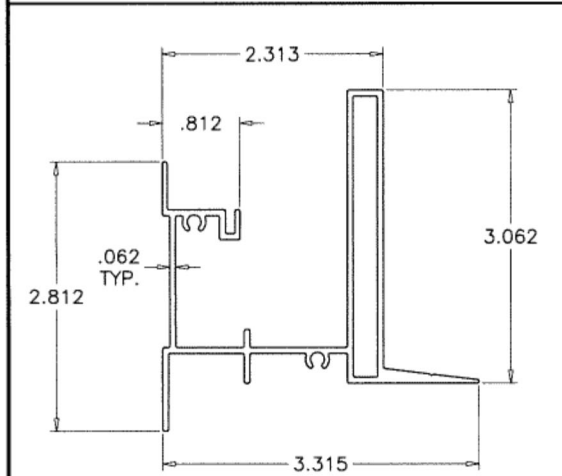
sheet 9 of 11



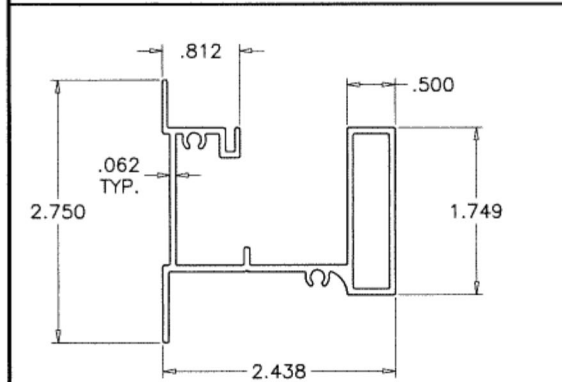
① FRAME HEAD/FRAME SILL TYPE '2'



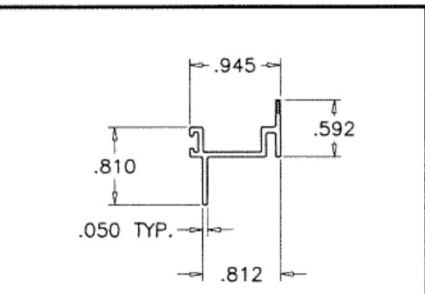
①A ALT. FRAME HEAD



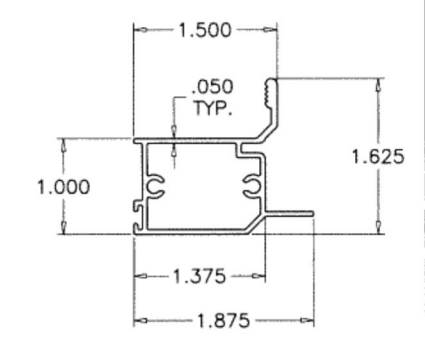
② FRAME SILL TYPE '1'



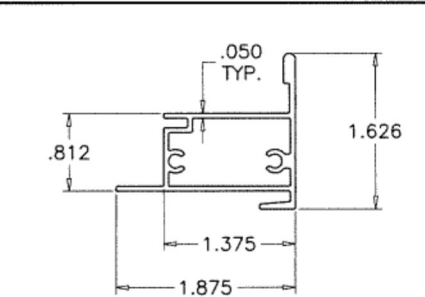
①.1 FRAME HEAD/FRAME SILL TYPE '3'



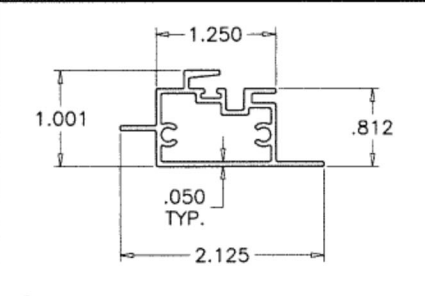
⑨ VENT TOP/BOTTOM RAIL



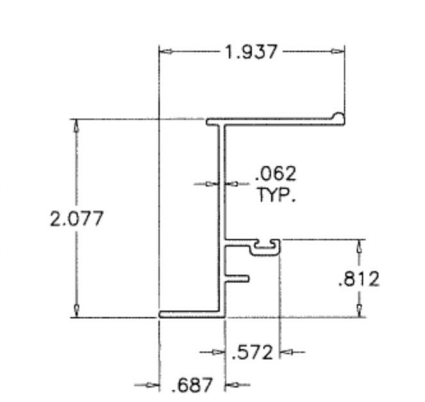
⑧ JAMB STILE



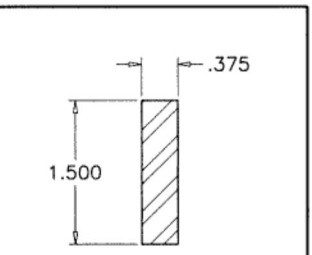
⑦ MEETING RAIL



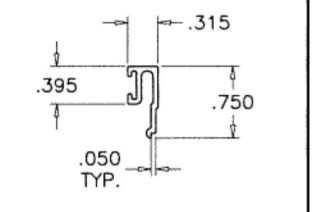
⑥ FIXED MTG. RAIL



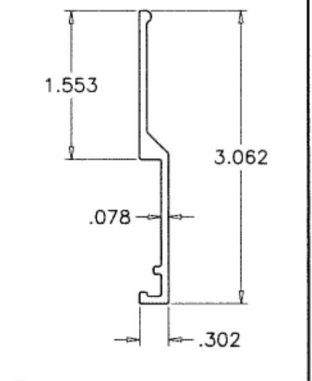
④ MOV. FRAME JAMB



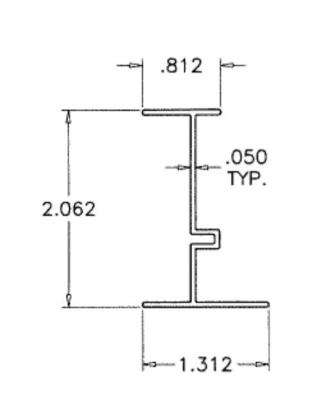
⑳ FRAME SILL REINF.



⑩ GLAZING BEAD

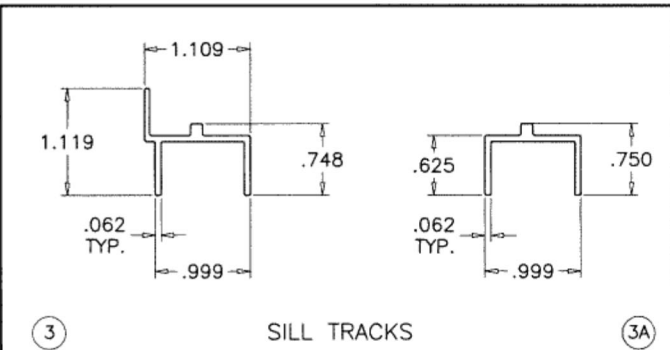


⑳ SILL RISER

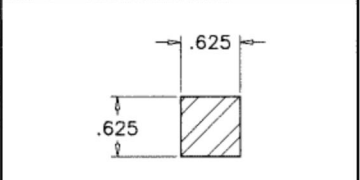


⑤ FIXED FRAME JAMB

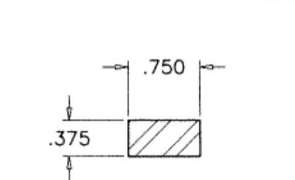
| ITEM | PART # | QUANTITY | DESCRIPTION | MATERIAL | MANF./SUPPLIER/REMARKS |
|------|---------------|----------|------------------------------------|---------------|---------------------------|
| 1 | 44287A | 1 | FRAME HEAD/FRAME SILL TYPE '2' | 6063-T6 | - |
| 1.1 | 44287AM | 1 | FRAME HEAD/FRAME SILL TYPE '3' | 6063-T6 | - |
| 1A | 44287A-1 | 1 | ALT. FRAME HEAD | 6063-T6 | - |
| 2 | HR-001 | 1 | FRAME SILL TYPE '1' | 6063-T6 | - |
| 3 | 050173 | 1 | SILL TRACK INSERT | 6063-T6 | - |
| 3A | SSW-021A | 1 | SILL TRACK INSERT | 6063-T6 | - |
| 4 | 30778 | AS REQD. | MOV. FRAME JAMB | 6063-T6 | - |
| 5 | 30682C | AS REQD. | FIXED FRAME JAMB | 6063-T6 | - |
| 6 | 40111A | 1/ VENT | FIXED MTG. RAIL | 6063-T6 | - |
| 7 | 30680A | 1/ VENT | VENT INTERLOCK | 6063-T6 | - |
| 8 | 30776A | 1/ VENT | JAMB STILE | 6063-T6 | - |
| 9 | 30681A | 2/ VENT | TOP AND BOTTOM RAIL | 6063-T6 | - |
| 10 | 30684B | AS REQD. | GLAZING BEAD | 6063-T6 | - |
| 11 | - | AS REQD. | MOV. RAIL REINF., FULL LENGTH | STEEL | - |
| 12 | - | AS REQD. | FIX. RAIL REINF., FULL LENGTH | STEEL | - |
| 13 | - | 2/ VENT | ROLLER HOUSING & GUIDE | PLASTIC | - |
| 14 | WH 1403 | 2/ VENT | ROLLER | BRASS | - |
| 15 | AX 1337 | 2/ VENT | ROLLER PIN | ST. STEEL | - |
| 16 | #8 X 1" | AS REQD. | FRAME/VENT ASSEMBLY SCREWS | CRS | P.H. SMS |
| 17 | #8 X 2-1/2" | 2/ VENT | FIX. RAIL SILL SCREWS (SILL END) | CRS | P.H. SMS |
| 18 | MPI P/N 83008 | AS REQD. | GLAZING BEAD BULB | SANTOPRENE | MELTPOINT, DUROMETER 65±5 |
| 20 | W33191NK000B | AS REQD. | FIN SEAL W'STRIPPING | POLYPROPYLENE | ULTRAFAB |
| 21 | MPI P/N 83002 | AS REQD. | BULB SEAL W'STRIPPING | VINYL | MELTPOINT |
| 22 | SL208-BKR/WHR | 2/ VENT | SWEEP LATCH, 12-1/2" FROM EACH END | ZINC | SULLIVAN & ASSOCIATES |
| 22A | #8 X 3/4" | 2/ LATCH | LATCH INST. SCREW | ST. STEEL | FH SMS |
| 23 | - | 2/ WDW. | WEEP VALVE | - | - |
| 24 | - | 1/ VENT | 5/16" BOX SCREEN | - | OPTIONAL |
| 25 | SW-S10 | 1/ WEEP | OPEN CELL FOAM PAD | - | 1-1/8" X 3-5/8" LONG |
| 26 | - | AS REQD. | SETTING BLOCKS AT 1/4 POINTS | EPDM | DUROMETER 80±5 SHORE A |
| 27 | SSW-998 | AS REQD. | SILL RISER | 6063-T6 | - |
| 28 | - | AS REQD. | FRAME SILL REINF., FULL LENGTH | STEEL | - |



③ SILL TRACKS



⑪ MTG. RAIL REINF.



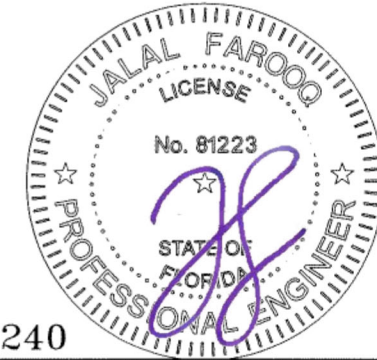
⑫ FIX. RAIL REINF.

SEALANT:

ALL JOINTS AND FRAME CONNECTIONS SEALED WITH SCHNEE MOREHEAD SM-5504 JOINT SEALER.

Sealed: 8/16/2024

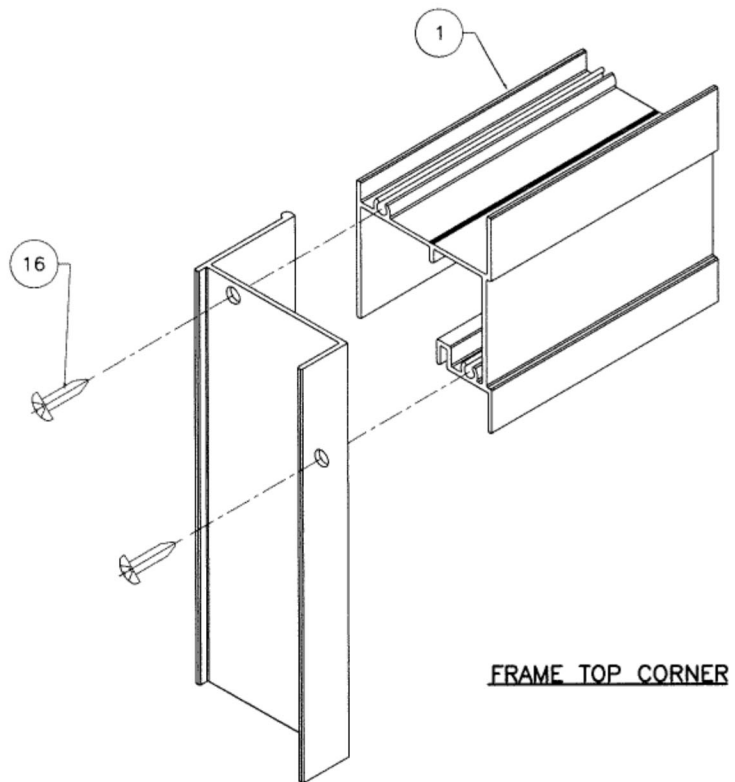
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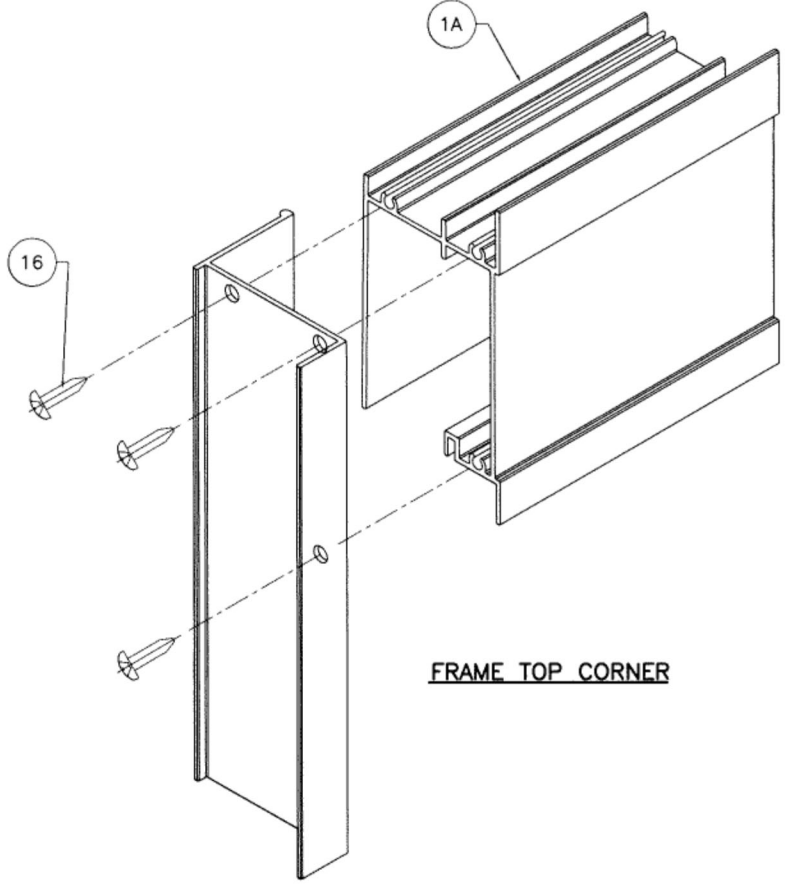
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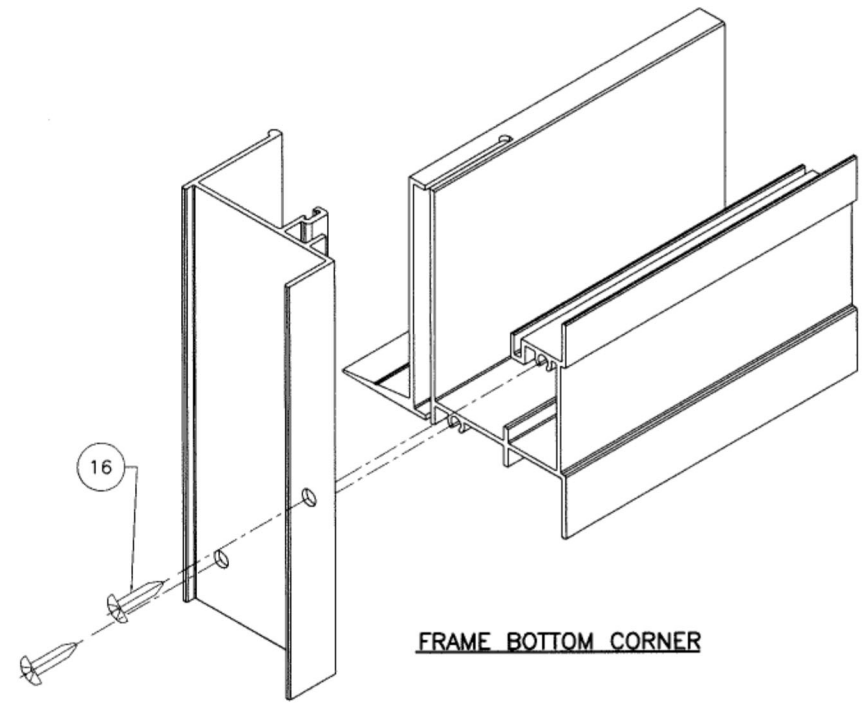
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| chk. by: | | | | |
| drawing no. | 19-04F | | | |
| sheet | 10 of 11 | | | |



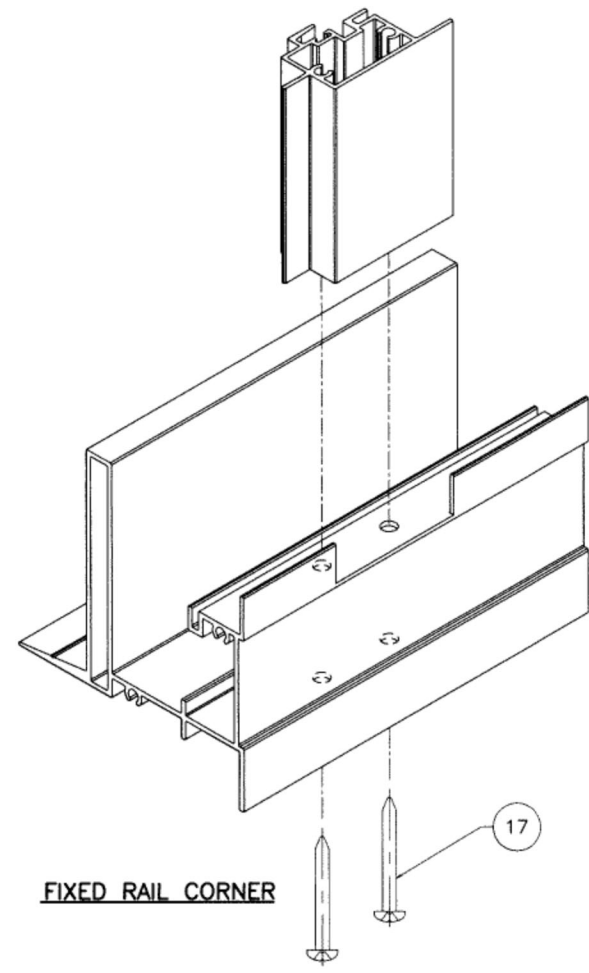
FRAME TOP CORNER



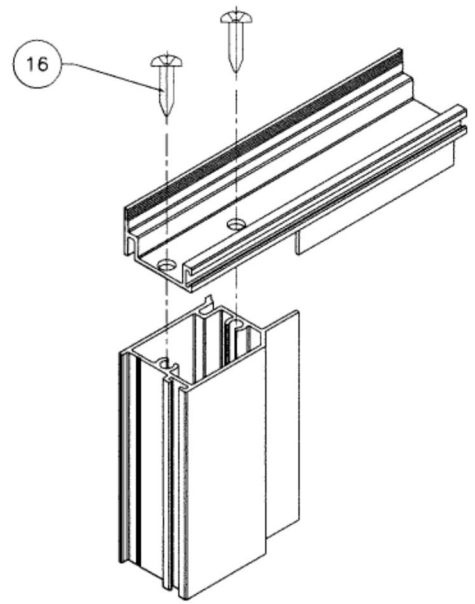
FRAME TOP CORNER



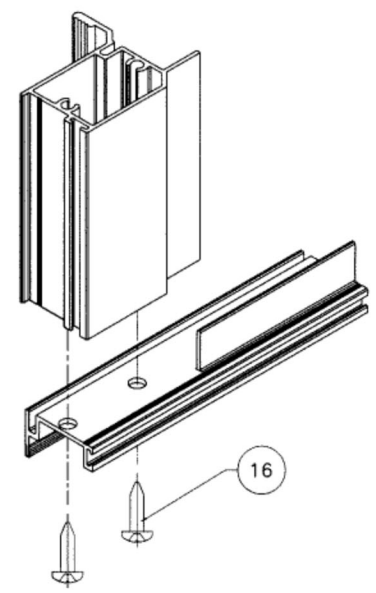
FRAME BOTTOM CORNER



FIXED RAIL CORNER



VENT TOP CORNER



VENT BOTTOM CORNER

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sheet 11 of 11