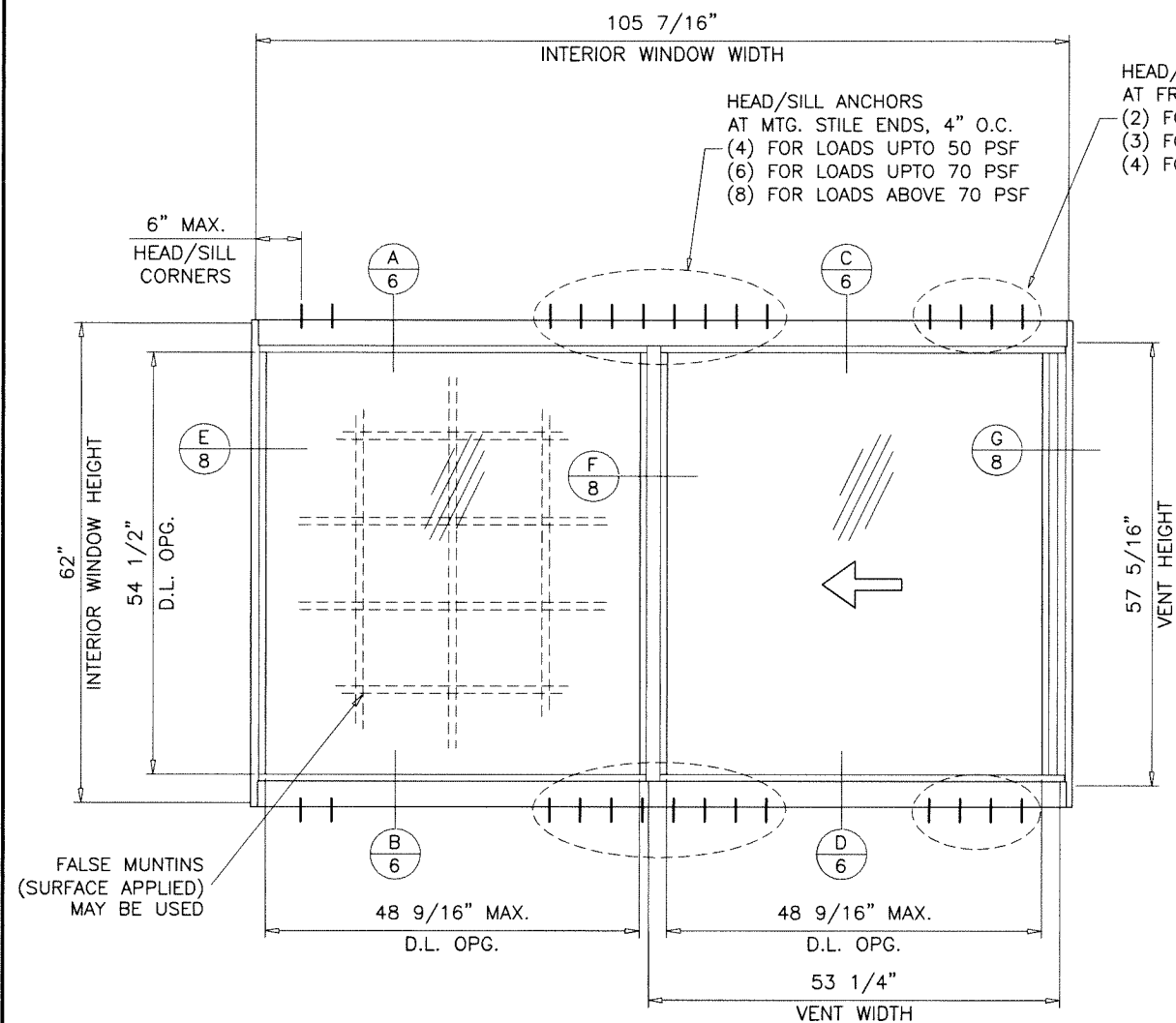
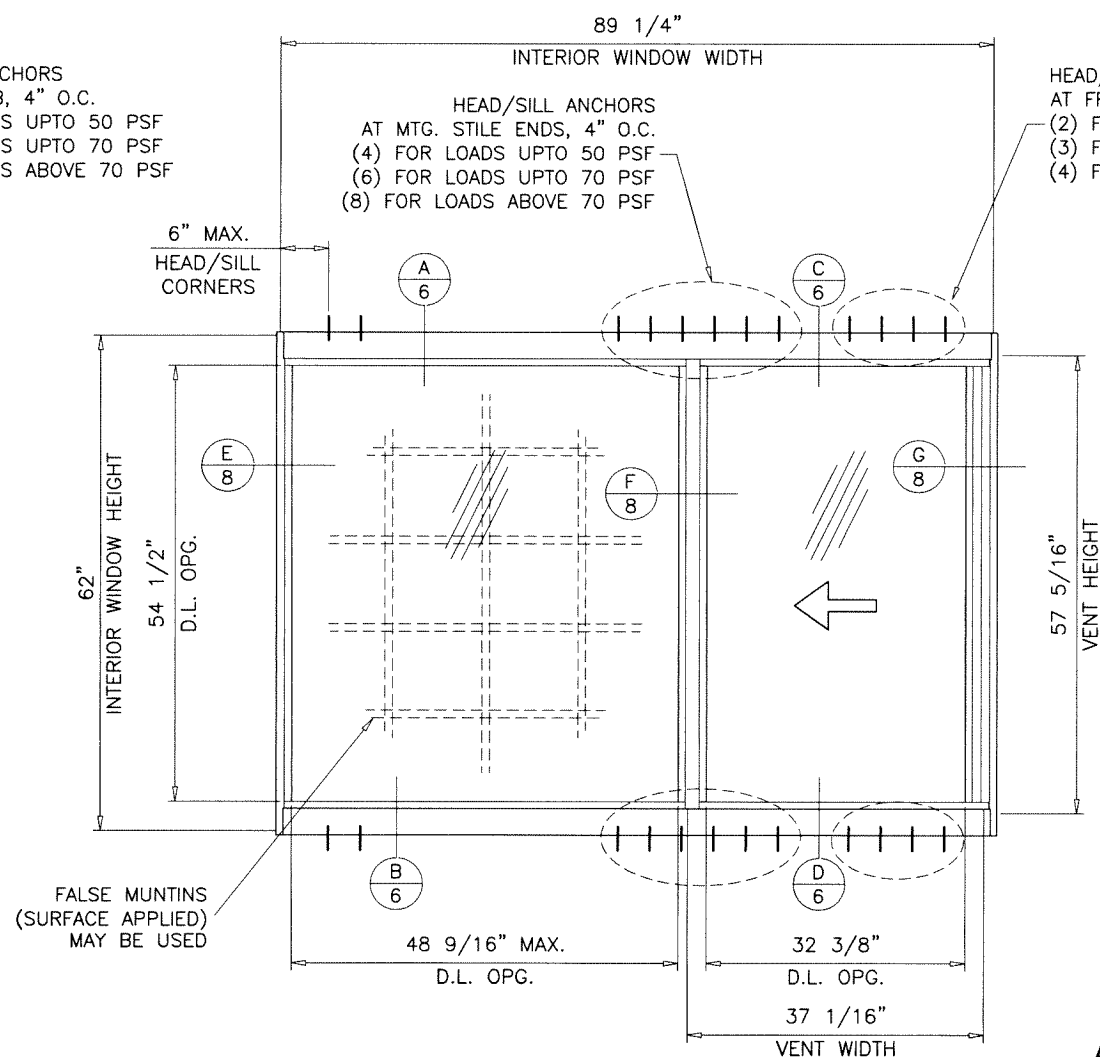




TYPICAL ELEVATIONS  
OX



ANCHORED JAMB OPTION

# SERIES-100HR ALUMINUM HORIZONTAL ROLLING WINDOW

DESIGN LOAD RATINGS FOR THESE WINDOWS TO BE AS PER CHARTS SHOWN ON SHEETS 4 AND 5.

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 2020 (7TH EDITION)/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 2020/2023 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)'.

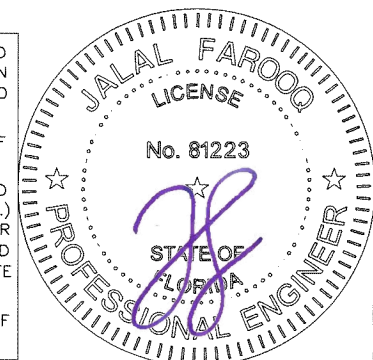
MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE. LABELING TO COMPLY WITH SECTION 1709.9.2.

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

Sealed: 9/20/2023

FL #30309

- 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.



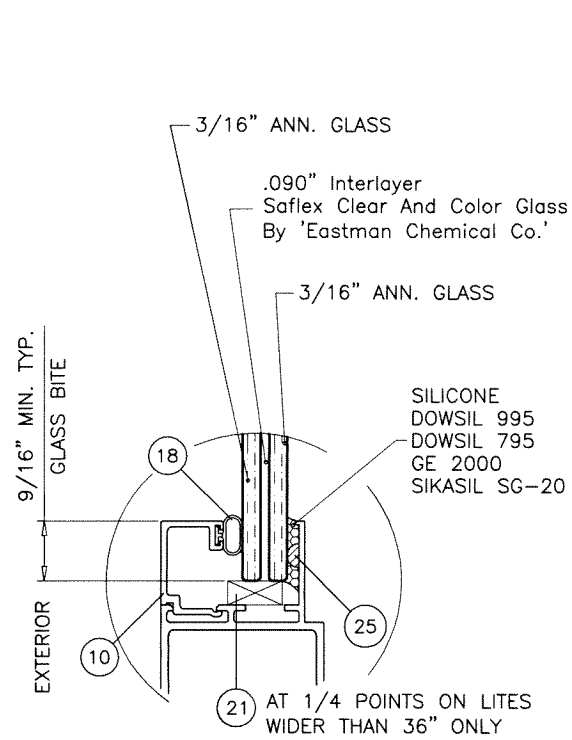
**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL\19-68F-AWC

SERIES-100HR ALUM HORIZ. ROLLING WDW. (L.M.I.)

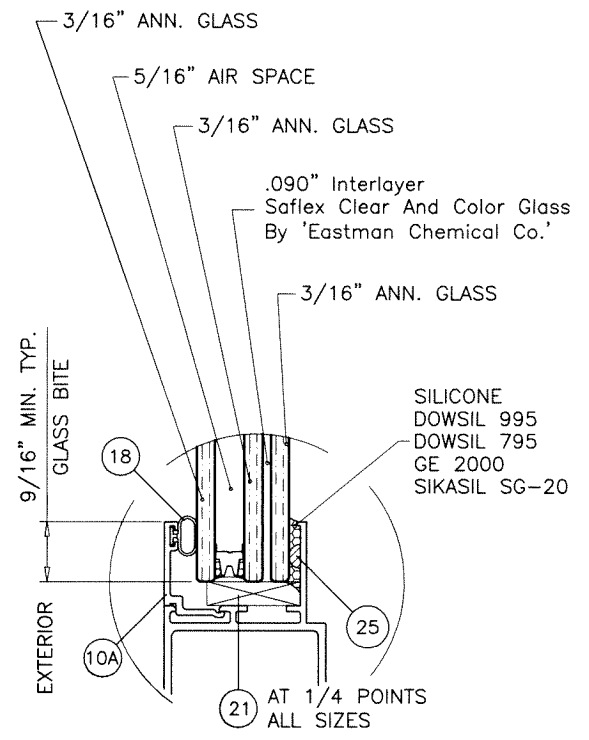
**Alcon Windows And Doors Corp.**  
7240 N.W. 46th Street  
Miami, FL. 33166  
Tel. (305) 553-0229 Fax. (786) 363-8141

| revisions:  |          | no      | date       | by      | description         |
|-------------|----------|---------|------------|---------|---------------------|
|             |          | A       | 09.19.23   |         | UPDATED TO 2023 FBC |
| date:       | 07-25-19 | scale:  | 1/2"=1'-0" | dr. by: | TARIQ               |
| chk. by:    |          |         |            |         |                     |
| drawing no. |          | 19-68F  |            |         |                     |
| sheet       |          | 1 of 13 |            |         |                     |

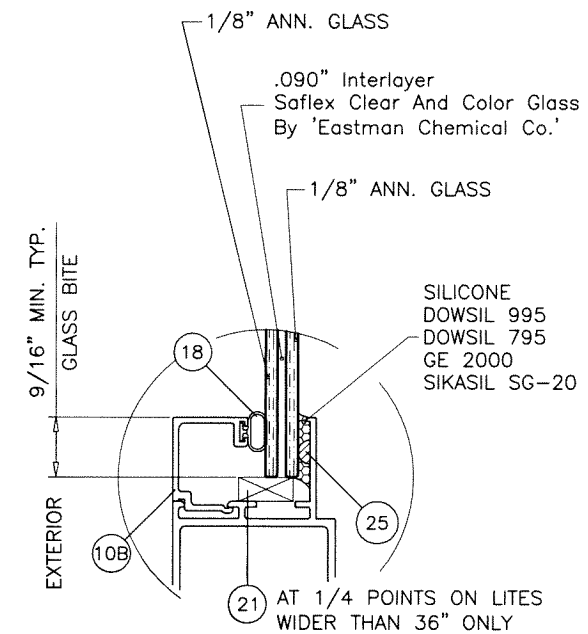




**GLASS TYPE 'A'**  
7/16" OVERALL LAM. GLASS

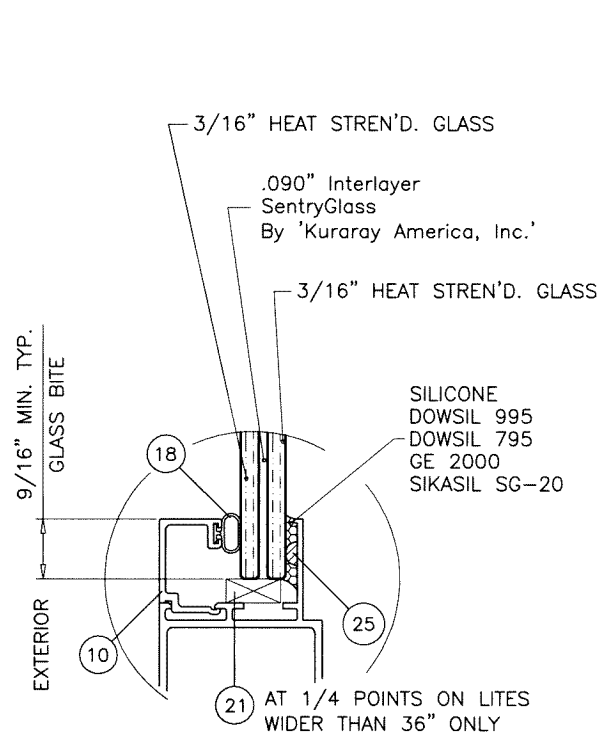


**GLASS TYPE 'Ai'**  
15/16" OVERALL INSUL. LAM. GLASS

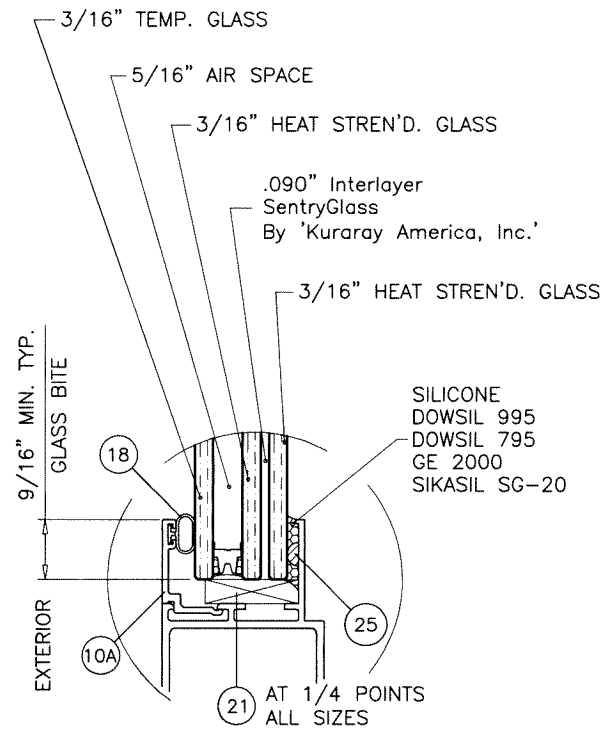


**GLASS TYPE 'C'**  
5/16" OVERALL LAM. GLASS

NOTE:  
EXTERIOR LITE OF GLASS TYPE 'Ai' TO BE TEMPERED  
FOR INSTALLATIONS ABOVE 30 FT. OF GRADE.

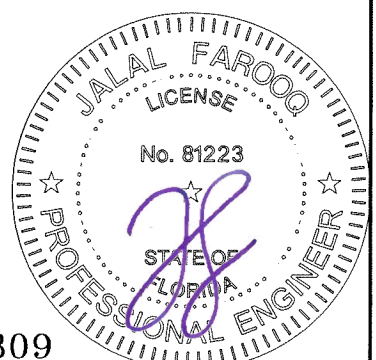


**GLASS TYPE 'B'**  
7/16" OVERALL LAM. GLASS



**GLASS TYPE 'Bi'**  
15/16" OVERALL INSUL. LAM. GLASS

Sealed: 9/20/2023



FL #30309

**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 19-68F-AWC

SERIES-100HR ALUM HORIZ. ROLLING WDW. (L.M.I.)

**Alcon Windows And Doors Corp.**  
7240 N.W. 46th Street  
Miami, FL. 33166  
Tel. (305) 553-0229 Fax. (786) 363-8141

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

date: 07-25-19

scale: 1/2" = 1"

dr. by: TARIQ

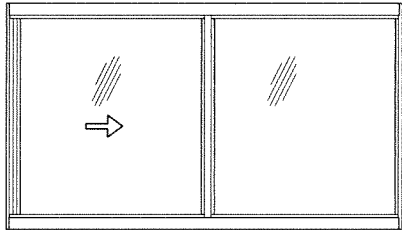
chk. by:

drawing no.

**19-68F**

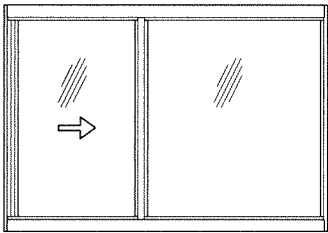
sheet 3 of 13

| DESIGN LOAD CAPACITY - PSF<br>(XO OR OX SIZES) |         |                     |         |                        |         |                 |         |
|------------------------------------------------|---------|---------------------|---------|------------------------|---------|-----------------|---------|
| INTERIOR<br>FRAME DIMS.                        |         | W/O REINF.          |         | WITH REINF.            |         |                 |         |
|                                                |         | GLASS 'A' & 'Ai'    |         | GLASS TYPES 'B' & 'Bi' |         |                 |         |
|                                                |         | W/ OR W/O JAMB ANC. |         | W/O JAMB ANCHORS       |         | W/ JAMB ANCHORS |         |
| WIDTH                                          | HEIGHT  | EXT.(+)             | INT.(-) | EXT.(+)                | INT.(-) | EXT.(+)         | INT.(-) |
| 25-1/2"                                        | 25"     | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 36"                                            |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 52-1/8"                                        |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 73"                                            |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 75-1/8"                                        |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 105-1/4"                                       |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 110"                                           |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 25-1/2"                                        | 37-3/8" | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 36"                                            |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 52-1/8"                                        |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 73"                                            |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 75-1/8"                                        |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 105-1/4"                                       |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 110"                                           |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 25-1/2"                                        | 49-5/8" | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 36"                                            |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 52-1/8"                                        |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 73"                                            |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 75-1/8"                                        |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 105-1/4"                                       |         | -                   | -       | 80.0                   | 95.0    | 80.0            | 95.0    |
| 110"                                           |         | -                   | -       | 80.0                   | 95.0    | 80.0            | 95.0    |
| 25-1/2"                                        | 55"     | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 36"                                            |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 52-1/8"                                        |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 73"                                            |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 75-1/8"                                        |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 105-1/4"                                       |         | -                   | -       | 80.0                   | 95.0    | 80.0            | 95.0    |
| 110"                                           |         | -                   | -       | 80.0                   | 95.0    | 80.0            | 95.0    |
| 25-1/2"                                        | 62"     | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 36"                                            |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 52-1/8"                                        |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 73"                                            |         | 70.0                | 70.0    | 80.0                   | 94.6    | 80.0            | 95.0    |
| 75-1/8"                                        |         | 70.0                | 70.0    | 80.0                   | 92.7    | 80.0            | 95.0    |
| 105-1/4"                                       |         | -                   | -       | 76.6                   | 76.6    | 80.0            | 95.0    |
| 110"                                           |         | -                   | -       | 80.0                   | 95.0    | 80.0            | 95.0    |
| 23"                                            | 23"     | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 47"                                            |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 71"                                            |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 83"                                            |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 95"                                            |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 107"                                           |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 110"                                           |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 23"                                            | 35"     | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 47"                                            |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 71"                                            |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 83"                                            |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 95"                                            |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 107"                                           |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 110"                                           |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 23"                                            | 47"     | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 47"                                            |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 71"                                            |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 83"                                            |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 95"                                            |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 107"                                           |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 110"                                           |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 23"                                            | 59"     | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 47"                                            |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 71"                                            |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 83"                                            |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 95"                                            |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 107"                                           |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 110"                                           |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |



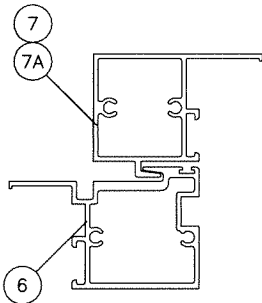
OPERATING VENTS TO BE 1/2 OF WINDOW WIDTH

'XO OR OX'

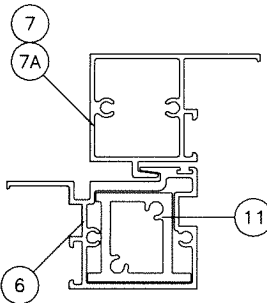


OPERATING VENTS TO BE 1/4 TO 1/3 OF WINDOW WIDTH

'XO OR OX'



FIX. STILE  
W/O REINF.



FIX. STILE  
WITH REINF.

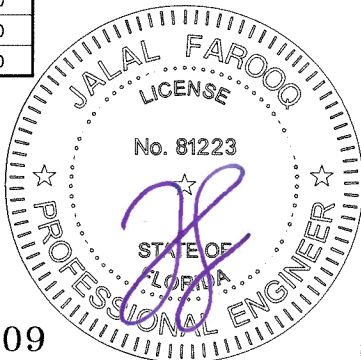
EXTERIOR LOADS SHOWN IN CHARTS ARE FOR  
WINDOWS WITH APPLIED RISER AT FRAME SILL.  
FOR STANDARD SILL (NO RISER) LIMIT MAX.  
EXTERIOR LOADS TO +66.7 PSF  
SEE SHEET 6 FOR DETAILS.

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

| DESIGN LOAD CAPACITY - PSF<br>(XO OR OX SIZES) |         |                     |         |                        |         |                 |         |
|------------------------------------------------|---------|---------------------|---------|------------------------|---------|-----------------|---------|
| INTERIOR<br>FRAME DIMS.                        |         | W/O REINF.          |         | WITH REINF.            |         |                 |         |
|                                                |         | GLASS 'A' & 'Ai'    |         | GLASS TYPES 'B' & 'Bi' |         |                 |         |
|                                                |         | W/ OR W/O JAMB ANC. |         | W/O JAMB ANCHORS       |         | W/ JAMB ANCHORS |         |
| WIDTH                                          | HEIGHT  | EXT.(+)             | INT.(-) | EXT.(+)                | INT.(-) | EXT.(+)         | INT.(-) |
| 25-1/2"                                        | 25"     | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 36"                                            |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 52-1/8"                                        |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 73"                                            |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 75-1/8"                                        |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 105-1/4"                                       |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 110"                                           |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 25-1/2"                                        | 37-3/8" | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 36"                                            |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 52-1/8"                                        |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 73"                                            |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 75-1/8"                                        |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 105-1/4"                                       |         | -                   | -       | 80.0                   | 95.0    | 80.0            | 95.0    |
| 110"                                           |         | -                   | -       | 80.0                   | 95.0    | 80.0            | 95.0    |
| 25-1/2"                                        | 49-5/8" | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 36"                                            |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 52-1/8"                                        |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 73"                                            |         | -                   | -       | 80.0                   | 95.0    | 80.0            | 95.0    |
| 75-1/8"                                        |         | -                   | -       | 80.0                   | 95.0    | 80.0            | 95.0    |
| 105-1/4"                                       |         | -                   | -       | 80.0                   | 95.0    | 80.0            | 95.0    |
| 110"                                           |         | -                   | -       | 80.0                   | 95.0    | 80.0            | 95.0    |
| 25-1/2"                                        | 55"     | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 36"                                            |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 52-1/8"                                        |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 73"                                            |         | -                   | -       | 80.0                   | 95.0    | 80.0            | 95.0    |
| 75-1/8"                                        |         | -                   | -       | 80.0                   | 95.0    | 80.0            | 95.0    |
| 105-1/4"                                       |         | -                   | -       | 80.0                   | 95.0    | 80.0            | 95.0    |
| 110"                                           |         | -                   | -       | 80.0                   | 95.0    | 80.0            | 95.0    |
| 25-1/2"                                        | 62"     | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 36"                                            |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 52-1/8"                                        |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 73"                                            |         | -                   | -       | 79.1                   | 79.1    | 80.0            | 95.0    |
| 75-1/8"                                        |         | -                   | -       | 78.1                   | 78.1    | 80.0            | 95.0    |
| 105-1/4"                                       |         | -                   | -       | 80.0                   | 95.0    | 80.0            | 95.0    |
| 110"                                           |         | -                   | -       | 80.0                   | 95.0    | 80.0            | 95.0    |
| 23"                                            | 23"     | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 47"                                            |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 71"                                            |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 83"                                            |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 95"                                            |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 107"                                           |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 110"                                           |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 23"                                            | 35"     | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 47"                                            |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 71"                                            |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 83"                                            |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 95"                                            |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 107"                                           |         | -                   | -       | 80.0                   | 95.0    | 80.0            | 95.0    |
| 110"                                           |         | -                   | -       | 80.0                   | 95.0    | 80.0            | 95.0    |
| 23"                                            | 47"     | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 47"                                            |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 71"                                            |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 83"                                            |         | -                   | -       | 80.0                   | 95.0    | 80.0            | 95.0    |
| 95"                                            |         | -                   | -       | 80.0                   | 95.0    | 80.0            | 95.0    |
| 107"                                           |         | -                   | -       | 80.0                   | 95.0    | 80.0            | 95.0    |
| 110"                                           |         | -                   | -       | 80.0                   | 95.0    | 80.0            | 95.0    |
| 23"                                            | 59"     | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 47"                                            |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 71"                                            |         | -                   | -       | 80.0                   | 90.9    | 80.0            | 95.0    |
| 83"                                            |         | -                   | -       | 80.0                   | 86.5    | 80.0            | 95.0    |
| 95"                                            |         | -                   | -       | 80.0                   | 86.5    | 80.0            | 95.0    |
| 107"                                           |         | -                   | -       | 80.0                   | 86.5    | 80.0            | 95.0    |
| 110"                                           |         | -                   | -       | 80.0                   | 86.5    | 80.0            | 95.0    |

Sealed: 9/20/2023

FL #30309



**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100 FAX. (305) 262-6978

SERIES-100HR ALUM HORIZ. ROLLING WDW. (L.M.I.)

**Alcon Windows And Doors Corp.**  
7240 N.W. 46th Street  
Miami, FL. 33166  
Tel. (305) 553-0229 Fax. (786) 363-8141

revisions:  
no date by description

date: 07-25-19 scale: -

dr. by: TARIQ

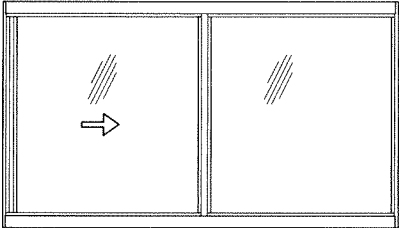
chk. by:

drawing no.  
**19-68F**

sheet 4 of 13

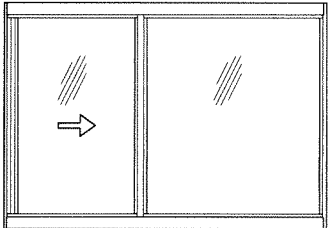
COMP-ANL\19-68F-AWC

| DESIGN LOAD CAPACITY - PSF<br>(XO OR OX SIZES) |         |                     |         |
|------------------------------------------------|---------|---------------------|---------|
| INTERIOR<br>FRAME DIMS.                        |         | W/O REINF.          |         |
|                                                |         | GLASS TYPE 'C'      |         |
|                                                |         | W/ OR W/O JAMB ANC. |         |
| WIDTH                                          | HEIGHT  | EXT.(+)             | INT.(-) |
| 25-1/2"                                        | 25"     | 55.0                | 55.0    |
| 36"                                            |         | 55.0                | 55.0    |
| 52-1/8"                                        |         | 55.0                | 55.0    |
| 73"                                            |         | 55.0                | 55.0    |
| 75-1/8"                                        |         | 55.0                | 55.0    |
| 105-1/4"                                       |         | 55.0                | 55.0    |
| 110"                                           |         | 55.0                | 55.0    |
| 25-1/2"                                        | 37-3/8" | 55.0                | 55.0    |
| 36"                                            |         | 55.0                | 55.0    |
| 52-1/8"                                        |         | 55.0                | 55.0    |
| 73"                                            |         | 55.0                | 55.0    |
| 75-1/8"                                        |         | 55.0                | 55.0    |
| 105-1/4"                                       |         | 55.0                | 55.0    |
| 110"                                           |         | 55.0                | 55.0    |
| 25-1/2"                                        | 49-5/8" | 55.0                | 55.0    |
| 36"                                            |         | 55.0                | 55.0    |
| 52-1/8"                                        |         | 55.0                | 55.0    |
| 73"                                            |         | 55.0                | 55.0    |
| 75-1/8"                                        | 55"     | 55.0                | 55.0    |
| 25-1/2"                                        |         | 55.0                | 55.0    |
| 36"                                            |         | 55.0                | 55.0    |
| 52-1/8"                                        |         | 55.0                | 55.0    |
| 73"                                            | 62"     | 55.0                | 55.0    |
| 75-1/8"                                        |         | 55.0                | 55.0    |
| 25-1/2"                                        |         | 55.0                | 55.0    |
| 36"                                            |         | 55.0                | 55.0    |
| 52-1/8"                                        | 23"     | 55.0                | 55.0    |
| 73"                                            |         | 55.0                | 55.0    |
| 75-1/8"                                        |         | 55.0                | 55.0    |
| 25-1/2"                                        |         | 55.0                | 55.0    |
| 36"                                            |         | 55.0                | 55.0    |
| 52-1/8"                                        | 35"     | 55.0                | 55.0    |
| 73"                                            |         | 55.0                | 55.0    |
| 75-1/8"                                        |         | 55.0                | 55.0    |
| 25-1/2"                                        |         | 55.0                | 55.0    |
| 36"                                            |         | 55.0                | 55.0    |
| 52-1/8"                                        | 47"     | 55.0                | 55.0    |
| 73"                                            |         | 55.0                | 55.0    |
| 75-1/8"                                        |         | 55.0                | 55.0    |
| 25-1/2"                                        |         | 55.0                | 55.0    |
| 36"                                            |         | 55.0                | 55.0    |
| 52-1/8"                                        | 59"     | 55.0                | 55.0    |
| 73"                                            |         | 55.0                | 55.0    |
| 75-1/8"                                        |         | 55.0                | 55.0    |



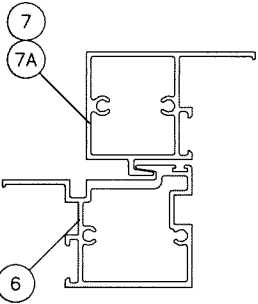
OPERATING VENTS TO BE 1/2 OF WINDOW WIDTH

'XO OR OX'



OPERATING VENTS TO BE 1/4 TO 1/3 OF WINDOW WIDTH

'XO OR OX'



FIX. STILE  
W/O REINF.

| DESIGN LOAD CAPACITY - PSF<br>(XO OR OX SIZES) |         |                     |         |
|------------------------------------------------|---------|---------------------|---------|
| INTERIOR<br>FRAME DIMS.                        |         | W/O REINF.          |         |
|                                                |         | GLASS TYPE 'C'      |         |
|                                                |         | W/ OR W/O JAMB ANC. |         |
| WIDTH                                          | HEIGHT  | EXT.(+)             | INT.(-) |
| 25-1/2"                                        | 25"     | 55.0                | 55.0    |
| 36"                                            |         | 55.0                | 55.0    |
| 52-1/8"                                        |         | 55.0                | 55.0    |
| 73"                                            |         | 55.0                | 55.0    |
| 75-1/8"                                        |         | 55.0                | 55.0    |
| 105-1/4"                                       |         | 55.0                | 55.0    |
| 110"                                           |         | 55.0                | 55.0    |
| 25-1/2"                                        | 37-3/8" | 55.0                | 55.0    |
| 36"                                            |         | 55.0                | 55.0    |
| 52-1/8"                                        |         | 55.0                | 55.0    |
| 73"                                            |         | 55.0                | 55.0    |
| 75-1/8"                                        | 49-5/8" | 55.0                | 55.0    |
| 105-1/4"                                       |         | 55.0                | 55.0    |
| 110"                                           |         | 55.0                | 55.0    |
| 25-1/2"                                        | 55"     | 55.0                | 55.0    |
| 36"                                            |         | 55.0                | 55.0    |
| 52-1/8"                                        |         | 55.0                | 55.0    |
| 25-1/2"                                        | 62"     | 55.0                | 55.0    |
| 36"                                            |         | 55.0                | 55.0    |
| 52-1/8"                                        |         | 55.0                | 55.0    |
| 23"                                            | 23"     | 55.0                | 55.0    |
| 47"                                            |         | 55.0                | 55.0    |
| 71"                                            |         | 55.0                | 55.0    |
| 83"                                            |         | 55.0                | 55.0    |
| 95"                                            |         | 55.0                | 55.0    |
| 107"                                           |         | 55.0                | 55.0    |
| 23"                                            | 35"     | 55.0                | 55.0    |
| 47"                                            |         | 55.0                | 55.0    |
| 71"                                            |         | 55.0                | 55.0    |
| 83"                                            |         | 55.0                | 55.0    |
| 95"                                            | 47"     | 55.0                | 55.0    |
| 107"                                           |         | 55.0                | 55.0    |
| 110"                                           |         | 55.0                | 55.0    |
| 23"                                            | 59"     | 55.0                | 55.0    |
| 47"                                            |         | 55.0                | 55.0    |
| 71"                                            |         | 55.0                | 55.0    |

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: 9/20/2023



FL #30309

**afC**

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 262-6978  
FAX. (305) 262-6978  
C.A.N. 3538

SERIES-100HR ALUM HORIZ. ROLLING WDW. (L.M.I.)

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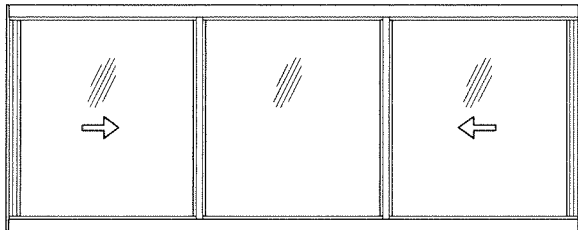
revisions:  
no date by description

date: 07-25-19  
scale: -  
dr. by: TARIQ  
chk. by:

drawing no.  
**19-68F**  
sheet **4.1** of **13**

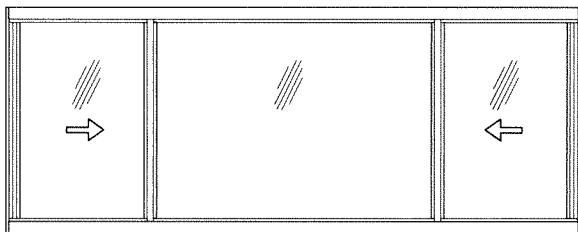
COMP-ANL\19-68F-AWC

| DESIGN LOAD CAPACITY - PSF<br>(XOX SIZES) |         |                     |         |                        |         |                 |         |
|-------------------------------------------|---------|---------------------|---------|------------------------|---------|-----------------|---------|
| INTERIOR<br>FRAME DIMS.                   |         | W/O REINF.          |         | WITH REINF.            |         |                 |         |
|                                           |         | GLASS 'A' & 'Ai'    |         | GLASS TYPES 'B' & 'Bi' |         |                 |         |
|                                           |         | W/ OR W/O JAMB ANC. |         | W/O JAMB ANCHORS       |         | W/ JAMB ANCHORS |         |
| WIDTH                                     | HEIGHT  | EXT.(+)             | INT.(-) | EXT.(+)                | INT.(-) | EXT.(+)         | INT.(-) |
| 73"                                       | 25"     | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 105-1/4"                                  |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 110"                                      |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 111"                                      |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 159-1/2"                                  |         | -                   | -       | 80.0                   | 95.0    | 80.0            | 95.0    |
| 73"                                       | 37-3/8" | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 105-1/4"                                  |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 110"                                      |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 111"                                      |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 159-1/2"                                  |         | -                   | -       | 80.0                   | 95.0    | 80.0            | 95.0    |
| 73"                                       | 49-5/8" | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 105-1/4"                                  |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 110"                                      |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 111"                                      |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 159-1/2"                                  |         | -                   | -       | 80.0                   | 95.0    | 80.0            | 95.0    |
| 73"                                       | 55"     | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 105-1/4"                                  |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 110"                                      |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 111"                                      |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 159-1/2"                                  |         | -                   | -       | 80.0                   | 95.0    | 80.0            | 95.0    |
| 73"                                       | 62"     | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 105-1/4"                                  |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 110"                                      |         | 70.0                | 70.0    | 80.0                   | 94.3    | 80.0            | 95.0    |
| 111"                                      |         | 70.0                | 70.0    | 80.0                   | 93.7    | 80.0            | 95.0    |
| 159-1/2"                                  |         | -                   | -       | 76.3                   | 76.3    | 80.0            | 95.0    |
| 71"                                       | 23"     | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 83"                                       |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 95"                                       |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 107"                                      |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 119"                                      |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 131"                                      |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 143"                                      |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 155"                                      |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 71"                                       | 35"     | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 83"                                       |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 95"                                       |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 107"                                      |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 119"                                      |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 131"                                      |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 143"                                      |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 155"                                      |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 71"                                       | 47"     | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 83"                                       |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 95"                                       |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 107"                                      |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 119"                                      |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 131"                                      |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 143"                                      |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 155"                                      |         | -                   | -       | 80.0                   | 95.0    | 80.0            | 95.0    |
| 71"                                       | 59"     | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 83"                                       |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 95"                                       |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 107"                                      |         | 70.0                | 70.0    | 80.0                   | 95.0    | 80.0            | 95.0    |
| 119"                                      |         | -                   | -       | 80.0                   | 95.0    | 80.0            | 95.0    |
| 131"                                      |         | -                   | -       | 80.0                   | 94.6    | 80.0            | 95.0    |
| 143"                                      |         | -                   | -       | 80.0                   | 90.6    | 80.0            | 95.0    |
| 155"                                      |         | -                   | -       | 80.0                   | 87.6    | 80.0            | 95.0    |



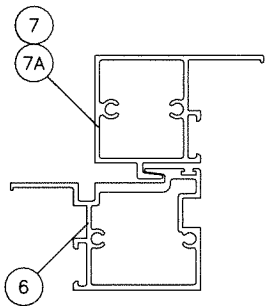
OPERATING VENTS TO BE 1/3 OF THE WINDOW WIDTH

'XOX'

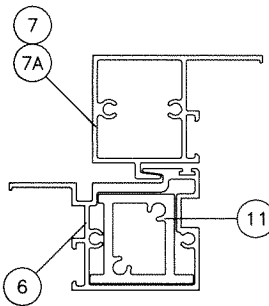


OPERATING VENTS TO BE 1/4 TO 1/3 OF THE WINDOW WIDTH

'XOX'



FIX. STILE  
W/O REINF.



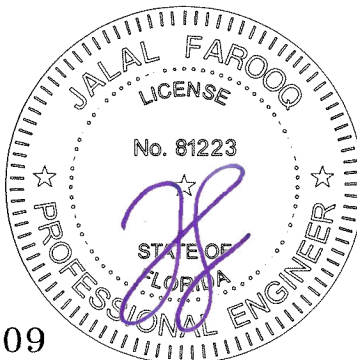
FIX. STILE  
WITH REINF.

EXTERIOR LOADS SHOWN IN CHARTS ARE FOR  
WINDOWS WITH APPLIED RISER AT FRAME SILL.  
FOR STANDARD SILL (NO RISER) LIMIT MAX.  
EXTERIOR LOADS TO +66.7 PSF  
SEE SHEET 6 FOR DETAILS.

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

| DESIGN LOAD CAPACITY - PSF<br>(XOX SIZES) |         |                     |         |                     |         |
|-------------------------------------------|---------|---------------------|---------|---------------------|---------|
| INTERIOR<br>FRAME DIMS.                   |         | W/O REINF.          |         | WITH REINF.         |         |
|                                           |         | GLASS 'A' & 'Ai'    |         | GLASS 'B' & 'Bi'    |         |
|                                           |         | W/ OR W/O JAMB ANC. |         | W/ OR W/O JAMB ANC. |         |
| WIDTH                                     | HEIGHT  | EXT.(+)             | INT.(-) | EXT.(+)             | INT.(-) |
| 73"                                       | 25"     | 70.0                | 70.0    | 80.0                | 95.0    |
| 105-1/4"                                  |         | 70.0                | 70.0    | 80.0                | 95.0    |
| 110"                                      |         | 70.0                | 70.0    | 80.0                | 95.0    |
| 111"                                      |         | 70.0                | 70.0    | 80.0                | 95.0    |
| 159-1/2"                                  |         | 70.0                | 70.0    | 80.0                | 95.0    |
| 73"                                       | 37-3/8" | 70.0                | 70.0    | 80.0                | 95.0    |
| 105-1/4"                                  |         | 70.0                | 70.0    | 80.0                | 95.0    |
| 110"                                      |         | 70.0                | 70.0    | 80.0                | 95.0    |
| 111"                                      |         | 70.0                | 70.0    | 80.0                | 95.0    |
| 159-1/2"                                  |         | -                   | -       | 80.0                | 95.0    |
| 73"                                       | 49-5/8" | 70.0                | 70.0    | 80.0                | 95.0    |
| 105-1/4"                                  |         | -                   | -       | 80.0                | 95.0    |
| 110"                                      |         | -                   | -       | 80.0                | 95.0    |
| 111"                                      |         | -                   | -       | 80.0                | 95.0    |
| 159-1/2"                                  |         | -                   | -       | 80.0                | 95.0    |
| 73"                                       | 55"     | 70.0                | 70.0    | 80.0                | 95.0    |
| 105-1/4"                                  |         | -                   | -       | 80.0                | 95.0    |
| 110"                                      |         | -                   | -       | 80.0                | 95.0    |
| 111"                                      |         | -                   | -       | 80.0                | 95.0    |
| 159-1/2"                                  |         | -                   | -       | 80.0                | 95.0    |
| 73"                                       | 62"     | 70.0                | 70.0    | 80.0                | 95.0    |
| 105-1/4"                                  |         | -                   | -       | 80.0                | 95.0    |
| 71"                                       | 23"     | 70.0                | 70.0    | 80.0                | 95.0    |
| 83"                                       |         | 70.0                | 70.0    | 80.0                | 95.0    |
| 95"                                       |         | 70.0                | 70.0    | 80.0                | 95.0    |
| 107"                                      |         | 70.0                | 70.0    | 80.0                | 95.0    |
| 119"                                      |         | 70.0                | 70.0    | 80.0                | 95.0    |
| 131"                                      |         | 70.0                | 70.0    | 80.0                | 95.0    |
| 143"                                      |         | 70.0                | 70.0    | 80.0                | 95.0    |
| 155"                                      |         | 70.0                | 70.0    | 80.0                | 95.0    |
| 71"                                       | 35"     | 70.0                | 70.0    | 80.0                | 95.0    |
| 83"                                       |         | 70.0                | 70.0    | 80.0                | 95.0    |
| 95"                                       |         | 70.0                | 70.0    | 80.0                | 95.0    |
| 107"                                      |         | 70.0                | 70.0    | 80.0                | 95.0    |
| 119"                                      |         | 70.0                | 70.0    | 80.0                | 95.0    |
| 131"                                      |         | 70.0                | 70.0    | 80.0                | 95.0    |
| 143"                                      |         | -                   | -       | 80.0                | 95.0    |
| 155"                                      |         | -                   | -       | 80.0                | 95.0    |
| 71"                                       | 47"     | 70.0                | 70.0    | 80.0                | 95.0    |
| 83"                                       |         | 70.0                | 70.0    | 80.0                | 95.0    |
| 95"                                       |         | 70.0                | 70.0    | 80.0                | 95.0    |
| 107"                                      |         | -                   | -       | 80.0                | 95.0    |
| 119"                                      |         | -                   | -       | 80.0                | 95.0    |
| 131"                                      |         | -                   | -       | 80.0                | 95.0    |
| 143"                                      |         | -                   | -       | 80.0                | 95.0    |
| 155"                                      |         | -                   | -       | 80.0                | 95.0    |
| 71"                                       | 59"     | 70.0                | 70.0    | 80.0                | 95.0    |
| 83"                                       |         | -                   | -       | 80.0                | 95.0    |
| 95"                                       |         | -                   | -       | 80.0                | 95.0    |
| 107"                                      |         | -                   | -       | 80.0                | 95.0    |

Sealed: 9/20/2023



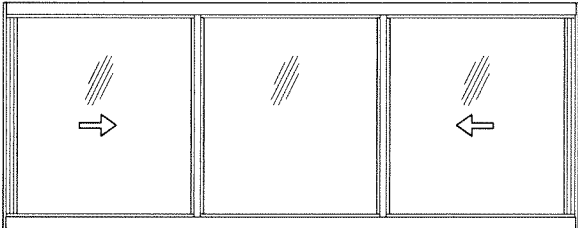
FL #30309

**af c**  
**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
(C.A.N. 3538)  
TEL. (305) 262-6978  
FAX. (305) 262-6978  
COMP-ANL 19-68F-AWC

SERIES-100HR ALUM HORIZ. ROLLING WDW. (L.M.I.)  
**Alcon Windows And Doors Corp.**  
7240 N.W. 46th Street  
Miami, FL. 33166  
Tel. (305) 553-0229 Fax. (786) 363-8141

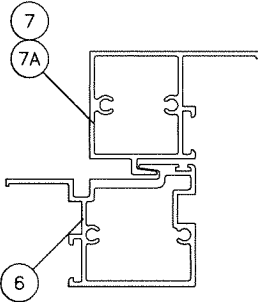
Revisions:  
no date by description  
date: 07-25-19  
scale: -  
dr. by: TARIQ  
chk. by:  
drawing no.  
**19-68F**  
sheet 5 of 13

| DESIGN LOAD CAPACITY - PSF<br>(XOX SIZES) |         |                     |         |
|-------------------------------------------|---------|---------------------|---------|
| INTERIOR<br>FRAME DIMS.                   |         | W/O REINF.          |         |
|                                           |         | GLASS TYPE 'C'      |         |
|                                           |         | W/ OR W/O JAMB ANC. |         |
| WIDTH                                     | HEIGHT  | EXT.(+)             | INT.(-) |
| 73"                                       | 25"     | 55.0                | 55.0    |
| 105-1/4"                                  |         | 55.0                | 55.0    |
| 110"                                      |         | 55.0                | 55.0    |
| 111"                                      |         | 55.0                | 55.0    |
| 73"                                       | 37-3/8" | 55.0                | 55.0    |
| 105-1/4"                                  |         | 55.0                | 55.0    |
| 110"                                      |         | 55.0                | 55.0    |
| 111"                                      |         | 55.0                | 55.0    |
| 73"                                       | 49-5/8" | 55.0                | 55.0    |
| 105-1/4"                                  |         | 55.0                | 55.0    |
| 110"                                      |         | 55.0                | 55.0    |
| 111"                                      |         | 55.0                | 55.0    |
| 73"                                       | 55"     | 55.0                | 55.0    |
| 105-1/4"                                  |         | 55.0                | 55.0    |
| 110"                                      |         | 55.0                | 55.0    |
| 111"                                      |         | 55.0                | 55.0    |
| 73"                                       | 62"     | 55.0                | 55.0    |
| 105-1/4"                                  |         | 55.0                | 55.0    |
| 110"                                      |         | 55.0                | 55.0    |
| 111"                                      |         | 55.0                | 55.0    |
| 71"                                       | 23"     | 55.0                | 55.0    |
| 83"                                       |         | 55.0                | 55.0    |
| 95"                                       |         | 55.0                | 55.0    |
| 107"                                      |         | 55.0                | 55.0    |
| 119"                                      |         | 55.0                | 55.0    |
| 131"                                      |         | 55.0                | 55.0    |
| 143"                                      |         | 55.0                | 55.0    |
| 155"                                      |         | 55.0                | 55.0    |
| 71"                                       | 35"     | 55.0                | 55.0    |
| 83"                                       |         | 55.0                | 55.0    |
| 95"                                       |         | 55.0                | 55.0    |
| 107"                                      |         | 55.0                | 55.0    |
| 119"                                      |         | 55.0                | 55.0    |
| 131"                                      |         | 55.0                | 55.0    |
| 143"                                      |         | 55.0                | 55.0    |
| 155"                                      |         | 55.0                | 55.0    |
| 71"                                       | 47"     | 55.0                | 55.0    |
| 83"                                       |         | 55.0                | 55.0    |
| 95"                                       |         | 55.0                | 55.0    |
| 107"                                      |         | 55.0                | 55.0    |
| 119"                                      |         | 55.0                | 55.0    |
| 131"                                      |         | 55.0                | 55.0    |
| 71"                                       | 59"     | 55.0                | 55.0    |
| 83"                                       |         | 55.0                | 55.0    |
| 95"                                       |         | 55.0                | 55.0    |
| 107"                                      |         | 55.0                | 55.0    |

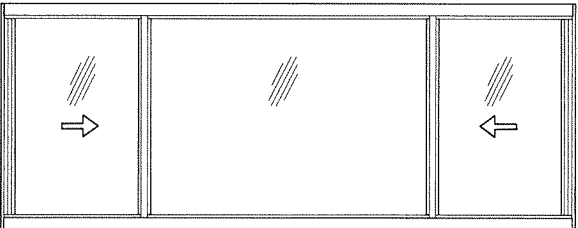


OPERATING VENTS TO BE 1/3 OF THE WINDOW WIDTH

'XOX'



FIX. STILE  
W/O REINF.



OPERATING VENTS TO BE 1/4 TO 1/3 OF THE WINDOW WIDTH

'XOX'

| DESIGN LOAD CAPACITY - PSF<br>(XOX SIZES) |         |                     |         |
|-------------------------------------------|---------|---------------------|---------|
| INTERIOR<br>FRAME DIMS.                   |         | W/O REINF.          |         |
|                                           |         | GLASS TYPE 'C'      |         |
|                                           |         | W/ OR W/O JAMB ANC. |         |
| WIDTH                                     | HEIGHT  | EXT.(+)             | INT.(-) |
| 73"                                       | 25"     | 55.0                | 55.0    |
| 105-1/4"                                  |         | 55.0                | 55.0    |
| 110"                                      |         | 55.0                | 55.0    |
| 111"                                      |         | 55.0                | 55.0    |
| 159-1/2"                                  |         | 55.0                | 55.0    |
| 73"                                       | 37-3/8" | 55.0                | 55.0    |
| 105-1/4"                                  |         | 55.0                | 55.0    |
| 110"                                      |         | 55.0                | 55.0    |
| 111"                                      |         | 55.0                | 55.0    |
| 73"                                       | 49-5/8" | 55.0                | 55.0    |
| 73"                                       |         | 55.0                | 55.0    |
| 73"                                       | 55"     | 55.0                | 55.0    |
| 73"                                       | 62"     | 55.0                | 55.0    |
| 71"                                       | 23"     | 55.0                | 55.0    |
| 83"                                       |         | 55.0                | 55.0    |
| 95"                                       |         | 55.0                | 55.0    |
| 107"                                      |         | 55.0                | 55.0    |
| 119"                                      |         | 55.0                | 55.0    |
| 131"                                      |         | 55.0                | 55.0    |
| 143"                                      | 35"     | 55.0                | 55.0    |
| 155"                                      |         | 55.0                | 55.0    |
| 71"                                       |         | 55.0                | 55.0    |
| 83"                                       |         | 55.0                | 55.0    |
| 95"                                       | 47"     | 55.0                | 55.0    |
| 107"                                      |         | 55.0                | 55.0    |
| 119"                                      |         | 55.0                | 55.0    |
| 131"                                      | 59"     | 55.0                | 55.0    |
| 143"                                      |         | 55.0                | 55.0    |

afcc

AL-FAROOQ CORPORATION

ENGINEERS & PRODUCT DEVELOPMENT

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COMP - ANL \ 19-68F - AWC

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revisions:

| no | date | by | description |
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date: 07-25-19

scale: -

dr. by: TARIQ

chk. by:

drawing no.

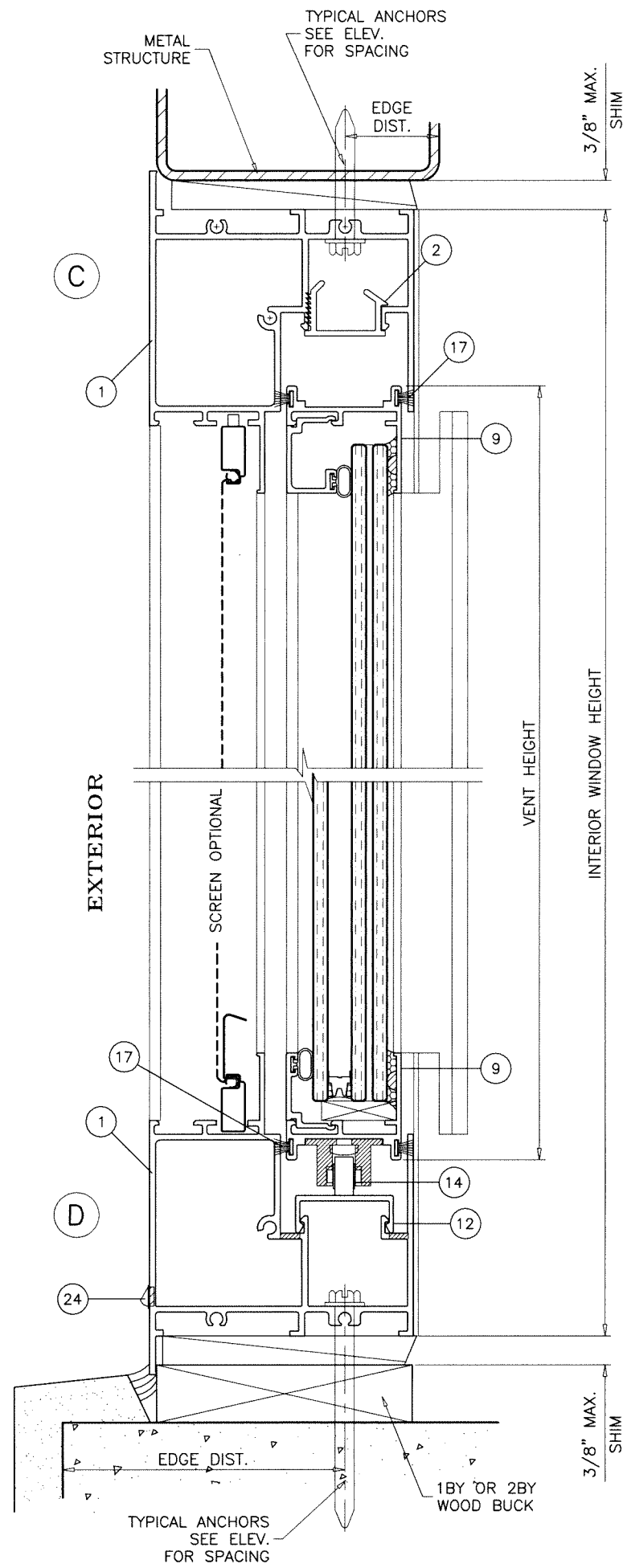
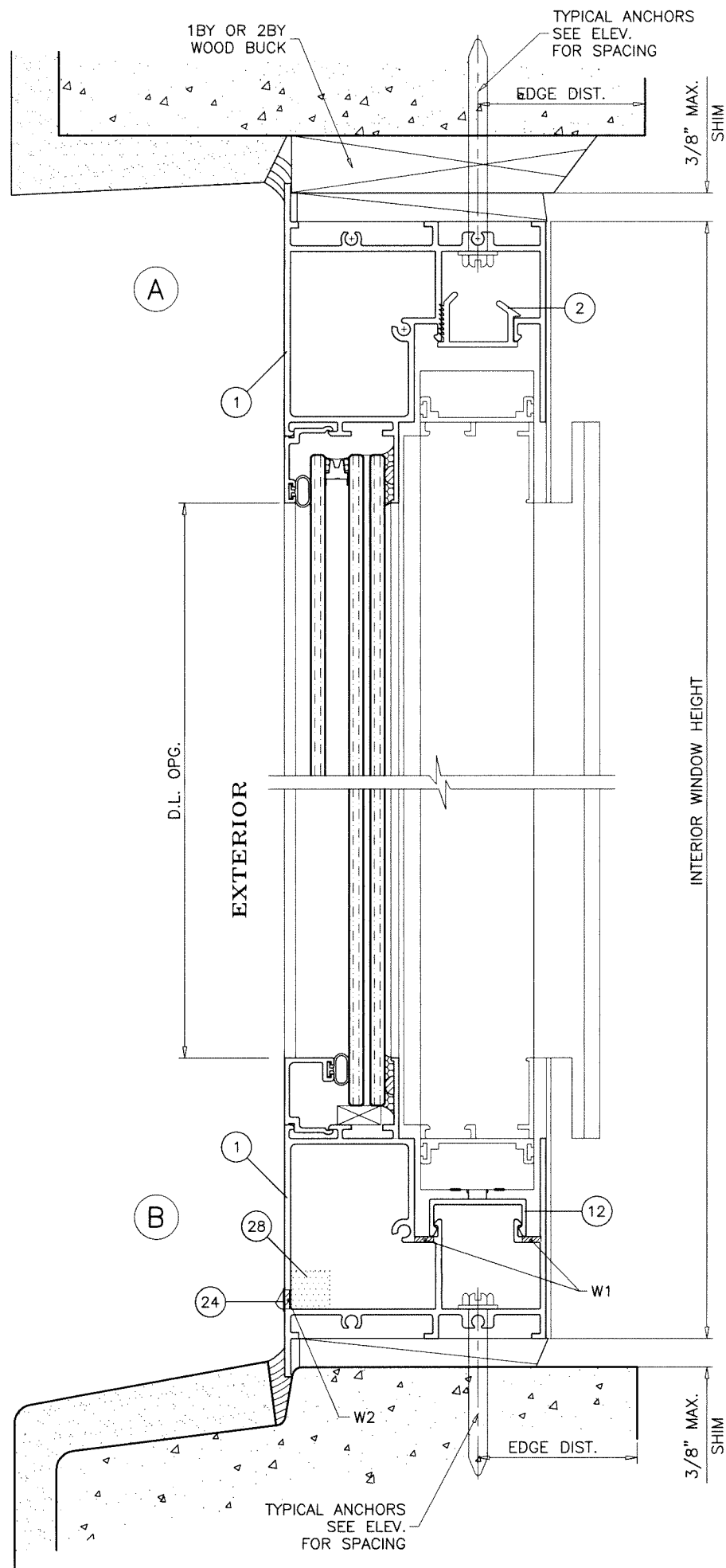
19-68F

sheet 5.1 of 13

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

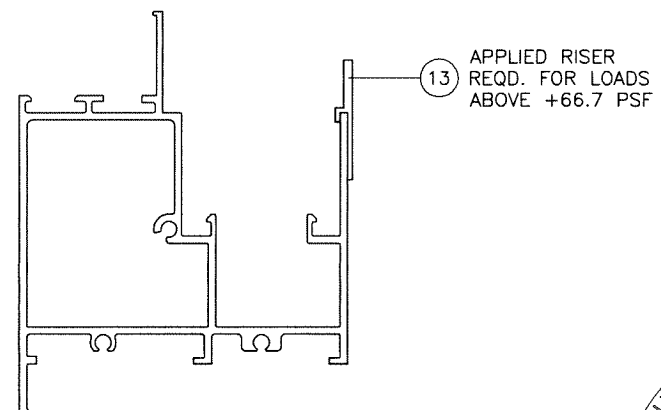
Sealed: 9/20/2023

FL #30309



# **WEEPHOLES:**

W1 = 5/16" X 2" NOTCH AT EACH END  
W2 = 5/16" X 1-3/4" WEEP NOTCHES AT 4-1/2" FROM EACH END AND 50" O.C. WITH BAFFLE.



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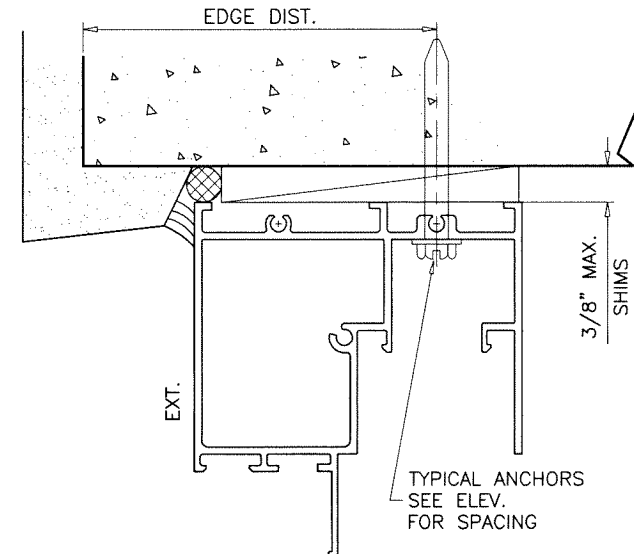
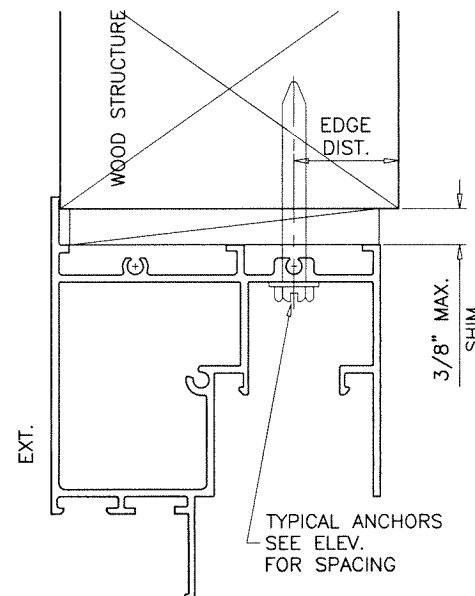
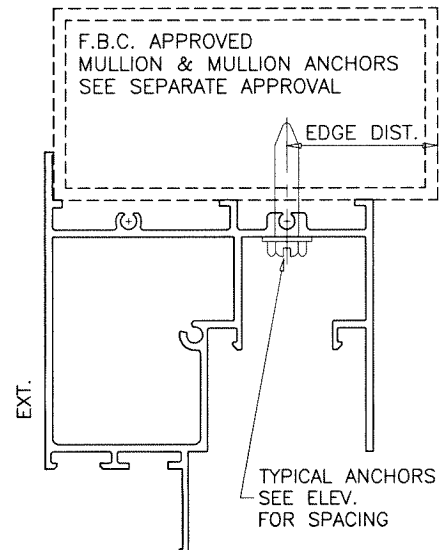


FL #30309

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| revisions:  |          | no date by description |           |
|-------------|----------|------------------------|-----------|
| date:       | 07-25-19 | scale:                 | 1/2" = 1" |
| dr. by:     | TARIQ    | chk. by:               |           |
| drawing no. |          | 19-68F                 |           |
| sheet       |          | 6 of 13                |           |



FLUSH FRAME WITH  
TRIMMED EXTERIOR FLANGE

WOOD BUCKS AND METAL STRUCTURE NOT BY 'ALCON WINDOWS'  
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'** ( $F_u=164$  KSI,  $F_y=148$  KSI)

INTO WOOD STRUCTURES

2" MIN. PENETRATION INTO WOOD (HEAD/SILL/JAMBS)

THRU 1BY OR 2BY WOOD 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

2" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)

2" MIN. EMBED INTO GROUT FILLED 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. ( $F_y = 36$  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.

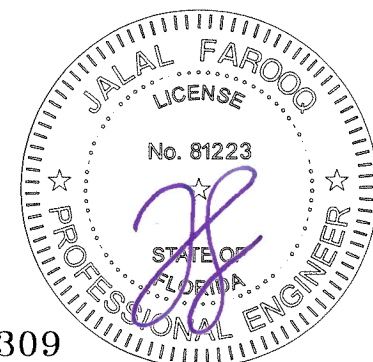
INTO METAL STRUCTURE = 3/4" MIN.

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.

Sealed: 9/20/2023

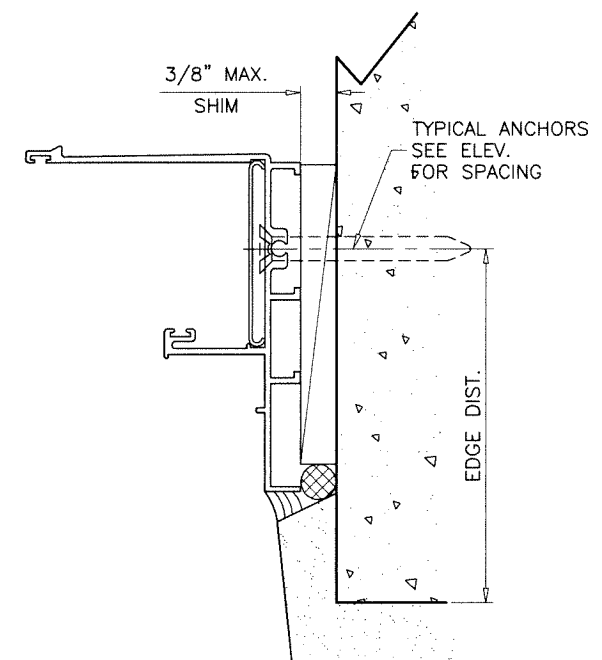
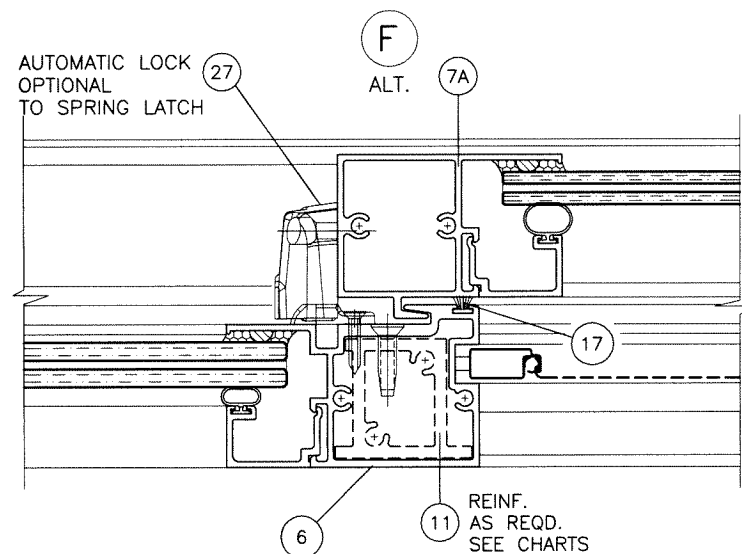
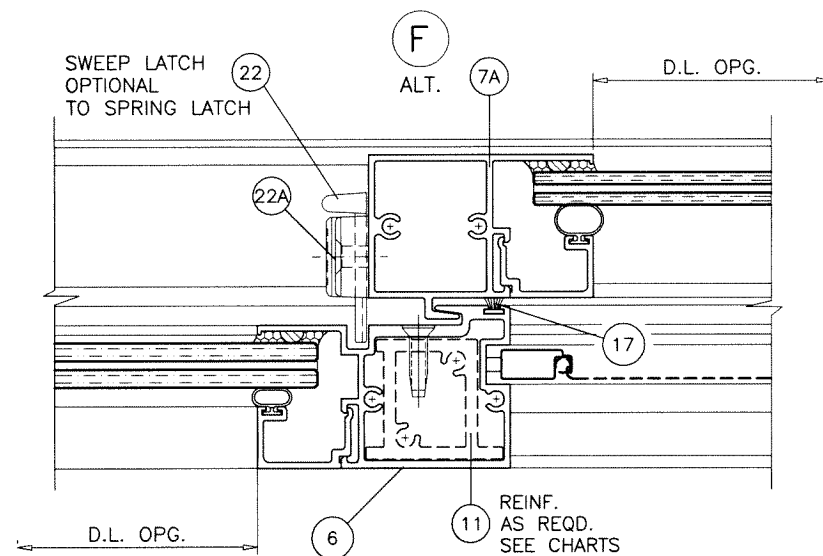
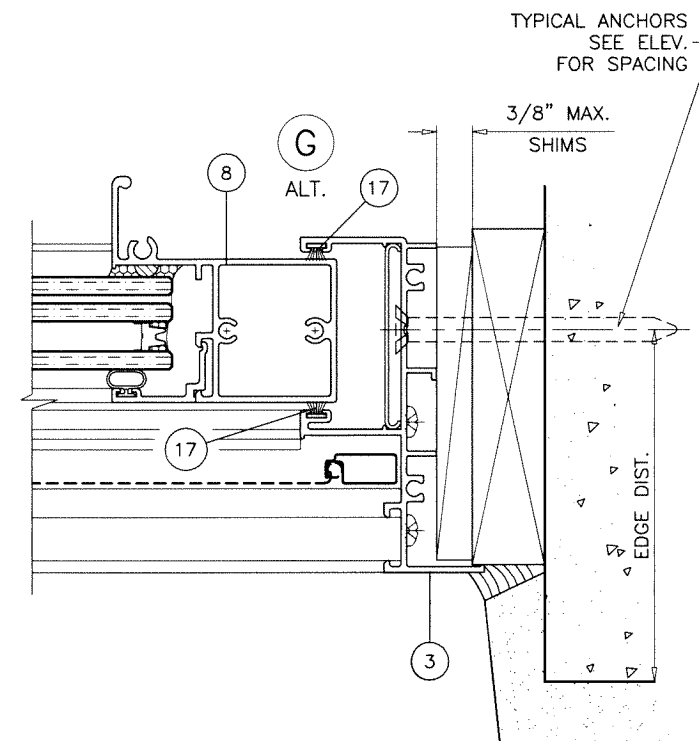
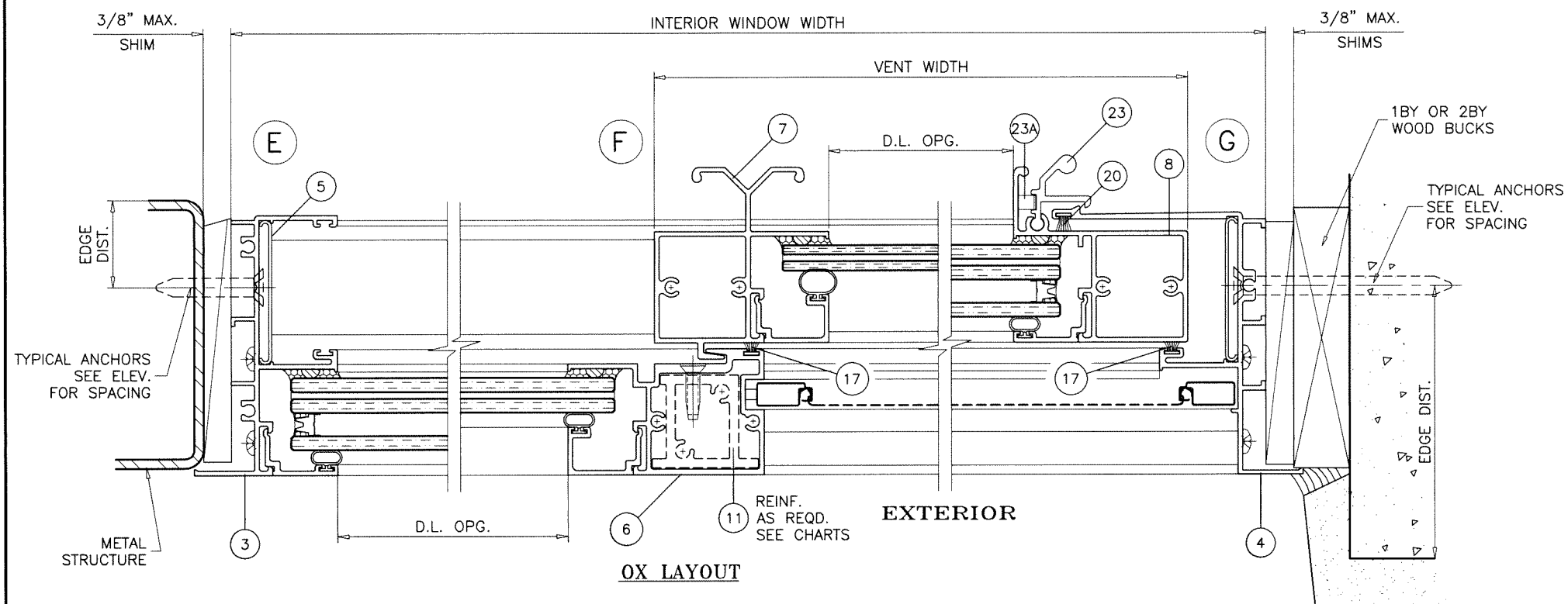


FL #30309

**af c**  
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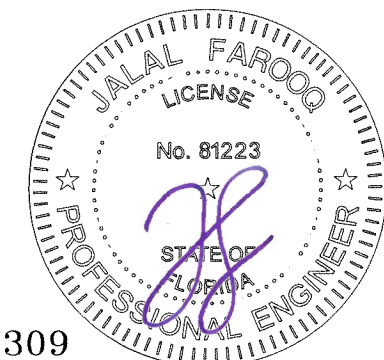
SERIES-100HR ALUM HORIZ. ROLLING WDW. (L.M.I.)  
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| revisions:  |          | no date by description |           |
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| date:       | 07-25-19 | scale:                 | 1/2" = 1" |
| dr. by:     | TARIQ    | chk. by:               |           |
| drawing no. | 19-68F   | sheet                  | 7 of 13   |



FLUSH FRAME WITH  
TRIMMED EXTERIOR FLANGE  
APPLICABLE TO MOV. AND FIX. JAMBS

Sealed: 9/20/2023



FL #30309

**af c**

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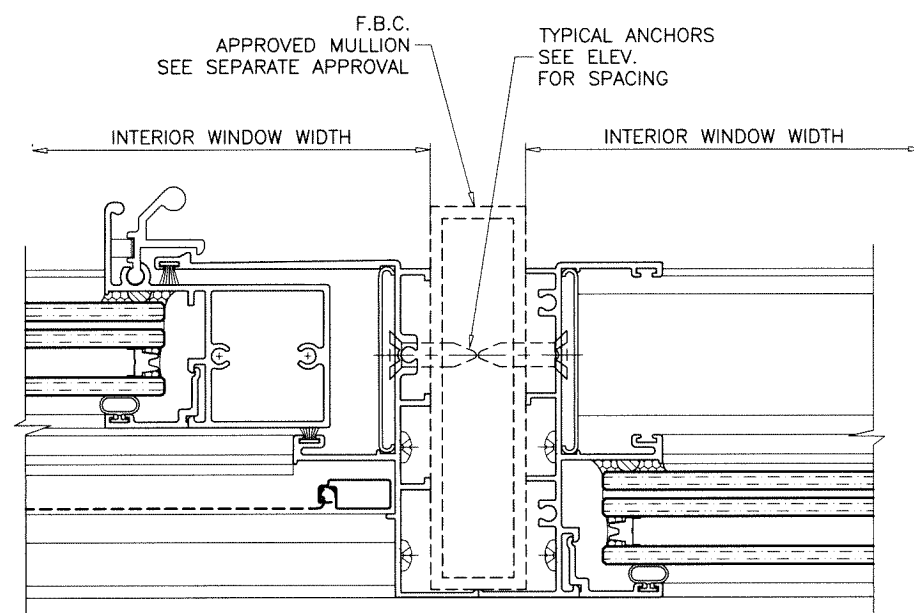
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drawing no. **19-68F**

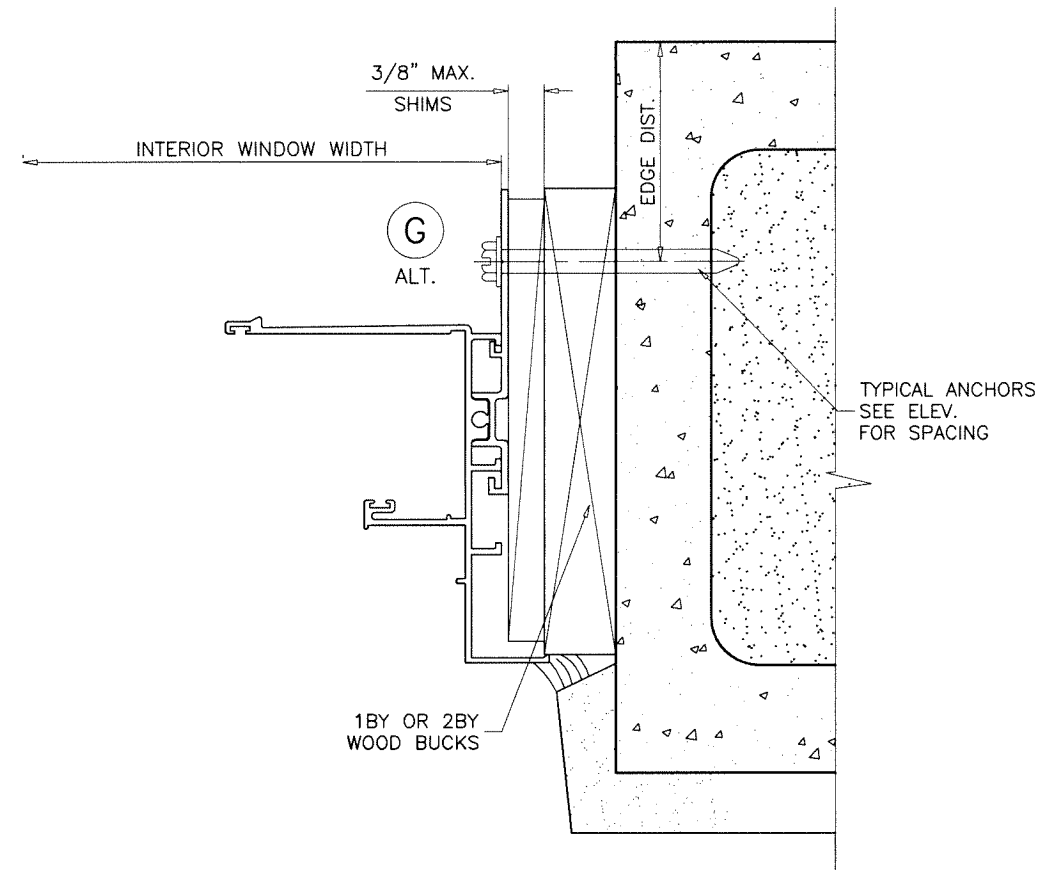
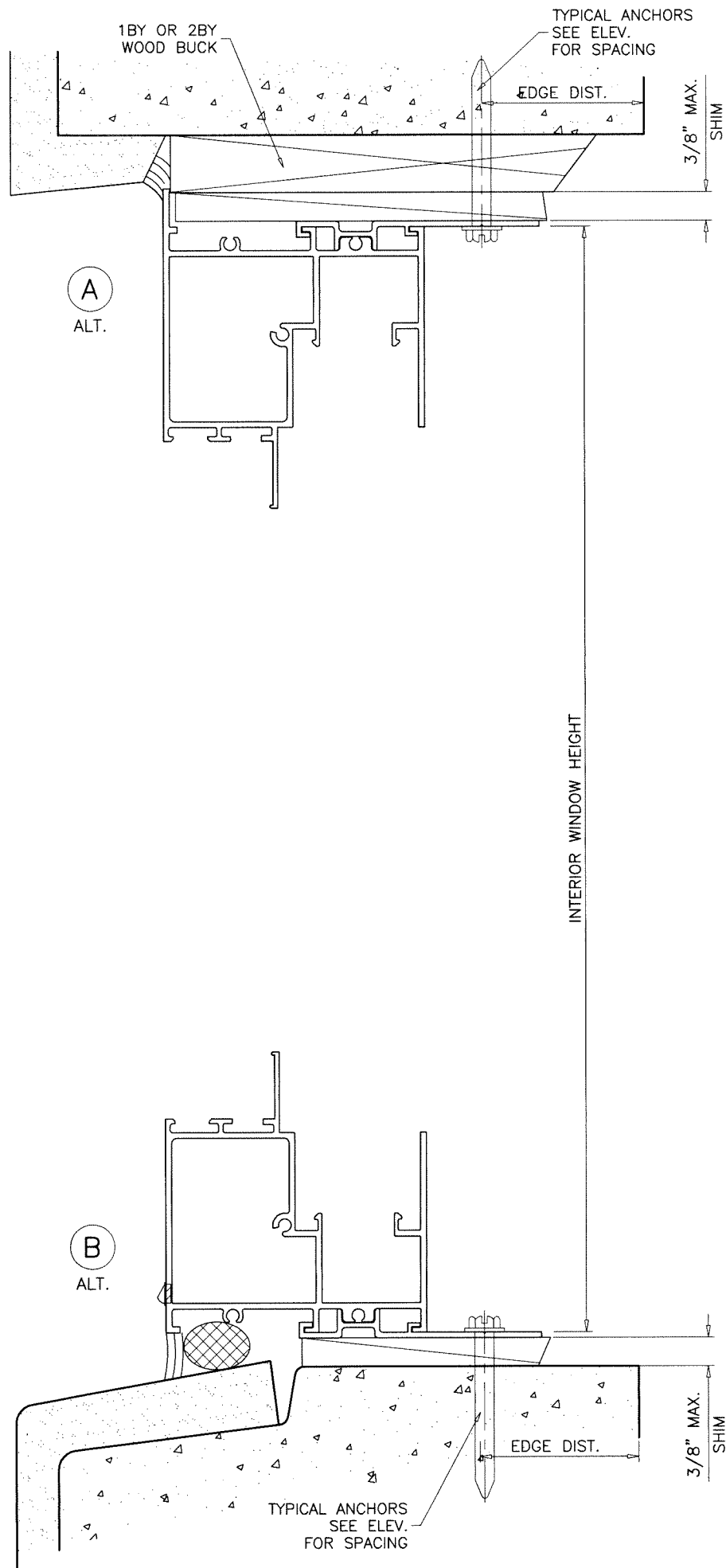
sheet 8 of 13



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(303) 262-6918  
COMP-ANI\19-68F-AWC

|                  |  |               |  |
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| date: 07-25-19   |  | drawing no.   |  |
| scale: 1/2" = 1" |  | 19-68F        |  |
| dr. by: TARIQ    |  | sheet 9 of 13 |  |
| chk. by:         |  |               |  |



# **INSTALLATION DETAILS WITH ANCHOR CLIP (FLUSH & FLANGE FRAMES)**

WINDOWS CAN BE INSTALLED BY USING ANCHOR CLIPS AT HEAD, SILL AND JAMBS.  
CLIP INSTALLATION CAN BE IN ANY SUBSTRATE SHOWN FOR ANCHORS THRU FRAMES  
SEE SHEETS 6 THRU 9 FOR DETAILS

Sealed: 9/20/2023



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| dr. by:     | TARIQ    | chk. by:               |           |
| drawing no. | 19-68F   | sheet                  | 10 of 13  |

| ITEM | PART #       | QUANTITY | DESCRIPTION                                                | MATERIAL  | MANF./SUPPLIER/REMARKS         |
|------|--------------|----------|------------------------------------------------------------|-----------|--------------------------------|
| 1    | 101B         | 1        | FRAME HEAD/SILL                                            | 6063-T6   | PROFILE                        |
| 2    | G107         | 1        | HEAD COVER (OPTIONAL)                                      | PVC       | CENTRAL PLASTICS               |
| 3    | 116          | AS REQD. | FRAME JAMB (MOVING/FIXED)                                  | 6063-T6   | PROFILE                        |
| 4    | 104          | AS REQD. | FRAME JAMB (MOVING)                                        | 6063-T6   | PROFILE                        |
| 5    | G104         | AS REQD. | JAMB COVER                                                 | PVC       | CENTRAL PLASTICS               |
| 6    | 108          | 1/ VENT  | FIXED MTG. RAIL                                            | 6063-T6   | PROFILE                        |
| 7    | 107          | 1/ VENT  | VENT INTERLOCK W/ HANDLE                                   | 6063-T6   | PROFILE                        |
| 7A   | 118          | 1/ VENT  | VENT INTERLOCK W/O HANDLE                                  | 6063-T6   | PROFILE                        |
| 8    | 106          | 1/ VENT  | JAMB STILE                                                 | 6063-T6   | PROFILE                        |
| 9    | 102          | 2/ VENT  | TOP AND BOTTOM RAIL                                        | 6063-T6   | PROFILE                        |
| 10   | 115          | AS REQD. | GLAZING BEAD (7/16" LAM. GLASS)                            | 6063-T6   | PROFILE                        |
| 10A  | 103          | AS REQD. | GLAZING BEAD (INSUL. LAM. GLASS)                           | 6063-T6   | PROFILE                        |
| 10B  | 119          | AS REQD. | GLAZING BEAD (5/16" LAM. GLASS)                            | 6063-T6   | PROFILE                        |
| 11   | 111          | AS REQD. | FIX. STILE REINFORCING (FULL LENGTH)                       | 6063-T6   | PROFILE                        |
| 12   | 110          | AS REQD. | TRACK                                                      | 6063-T6   | PROFILE                        |
| 13   | 114          | AS REQD. | SILL RISER                                                 | 6063-T5   | PROFILE                        |
| 14   | G101         | 2/ VENT  | ROLLER HOUSING                                             | NYLON     | M&M PLASTICS                   |
| 15   | #10 X 1 3/4" | AS REQD. | FRAME/VENT ASSEMBLY FASTENERS                              | CRS       | PH PH SMS                      |
| 16   | #10 X 2"     | 2/ VENT  | SHEAR BLOCK ASSEMBLY FASTENERS                             | CRS       | PH PH SMS                      |
| 17   | W71221NK     | AS REQD. | FIN SEAL W'STRIPPING                                       | -         | ULTRAFAB                       |
| 18   | G20618       | AS REQD. | GLAZING BEAD BULB                                          | NEOPRENE  | ULTRAFAB                       |
| 19   | 109          | AS REQD. | ANCHOR CLIP                                                | 6063-T6   | PROFILE                        |
| 20   | W71321NK     | AS REQD. | JAMB STILE W'STRIPPING                                     | -         | ULTRAFAB                       |
| 21   | -            | AS REQD. | SETTING BLOCK AT 1/4 POINTS                                | EPDM      | DUROMETER 80±5 SHORE A         |
| 22   | SL203P       | 2/ VENT  | SWEEP LATCH, AT 9 1/2" FROM EACH END                       | ZAMAK     | SULLIVAN & ASSOC.              |
| 22A  | #8 X 1/2"    | 2/ LATCH | LATCH INST. SCREW                                          | ST. STEEL | PH FH SMS                      |
| 23   | -            | 2/ VENT  | SPRING LOADED LATCH, AT 10" FROM EACH END                  | 6063-T6   | ALTERNATE TO SWEEP LATCH       |
| 23A  | G106         | 2/ LATCH | LATCH SPRING                                               | ST. STEEL | SULLIVAN & ASSOC.              |
| 24   | WA2L         | 2/ WDW.  | HI-FLOW WEEPER                                             | -         | SULLIVAN & ASSOC.              |
| 25   | FLB50-CLEAR  | AS REQD. | GLASS SPACER/BUMPER                                        | SILICONE  | FRANK LOWE                     |
| 26   | -            | OPTIONAL | 5/16" BOX SCREEN                                           | -         | OPTIONAL                       |
| 27   | WL02         | AS REQD. | AUTOMATIC LOCK                                             | -         | ROTO HARDWARE                  |
| 28   | -            | AS REQD. | RETICULATED FOAM BAFFLE 30 PPI (1/2" X 1/2" X 1-1/2" LONG) | -         | PREFERRED ENGINEERING PRODUCTS |
| 29   | -            | -        | -                                                          | -         | -                              |

SEALANT:

ALL JOINTS AND FRAME CONNECTIONS SEALED WITH WHITE/ALUMINUM COLORED GENERAL PURPOSE SILICONE.

Sealed: 9/20/2023



afC

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100 FAX. (305) 262-6978

SERIES-100HR ALUM HORIZ. ROLLING WDW. (L.M.I.)

**Alcon Windows And Doors Corp.**  
7240 N.W. 46th Street  
Miami, FL 33166  
Tel. (305) 553-0229 Fax. (786) 363-8141

revisions:

| no | date | by | description |
|----|------|----|-------------|
|    |      |    |             |
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date: 07-25-19

scale: 1/2" = 1"

dr. by: TARIQ

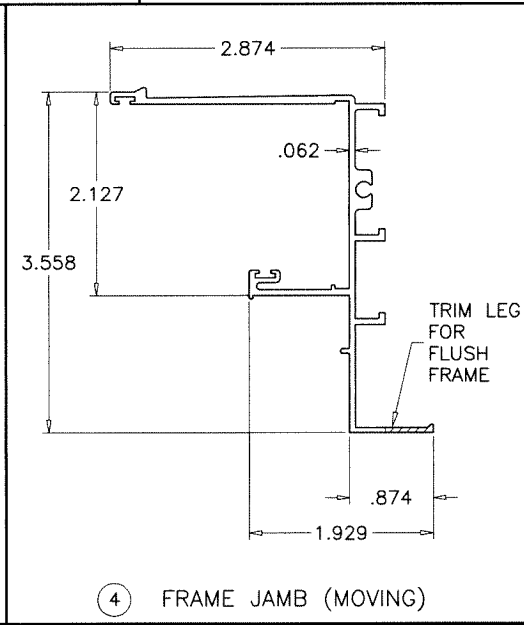
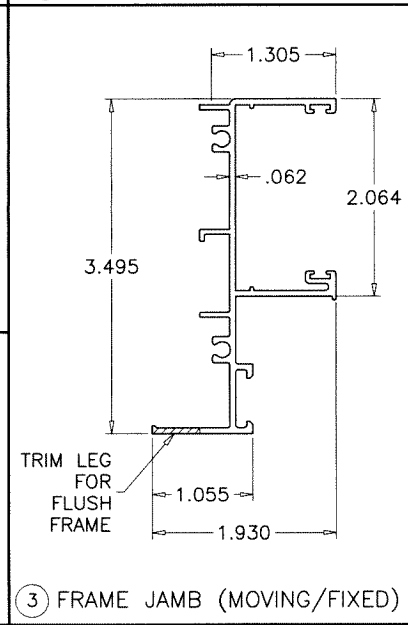
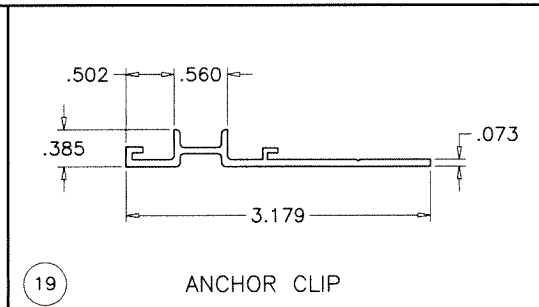
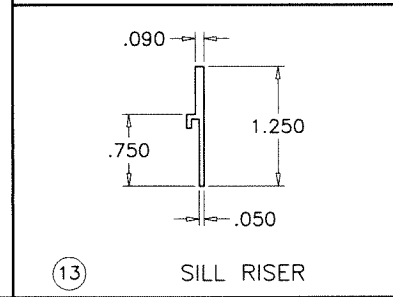
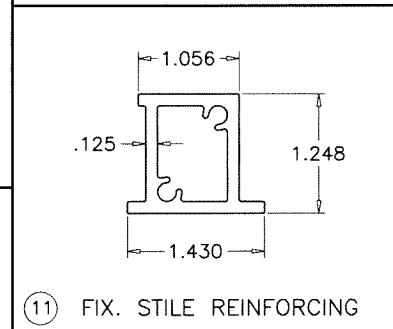
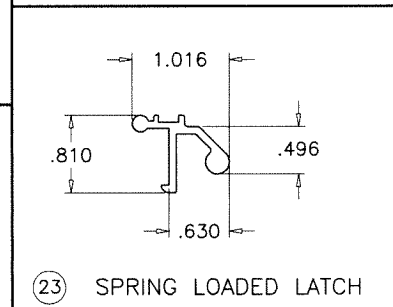
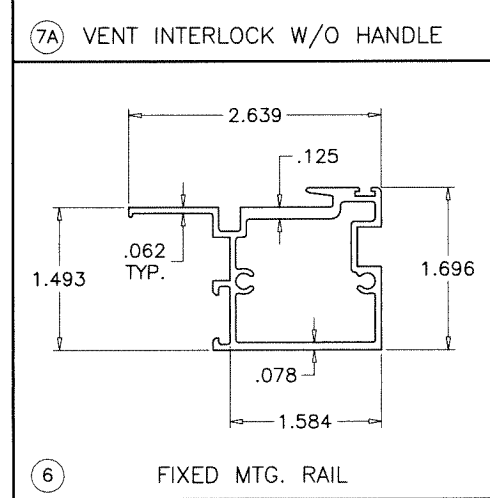
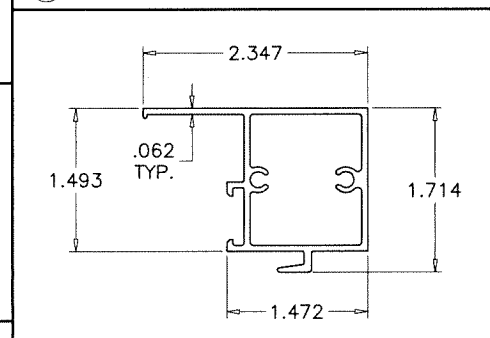
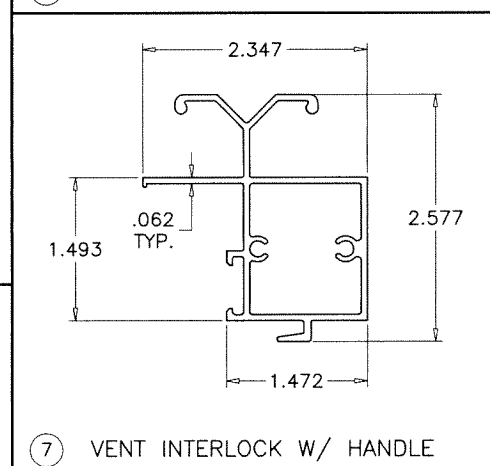
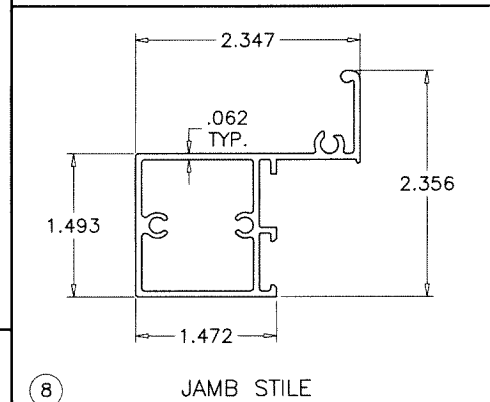
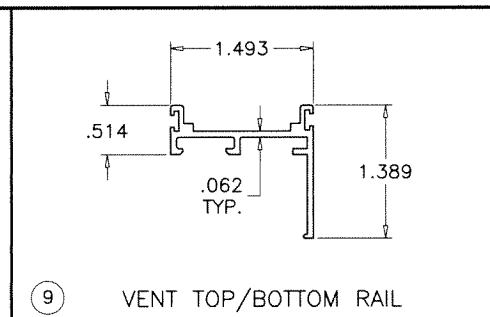
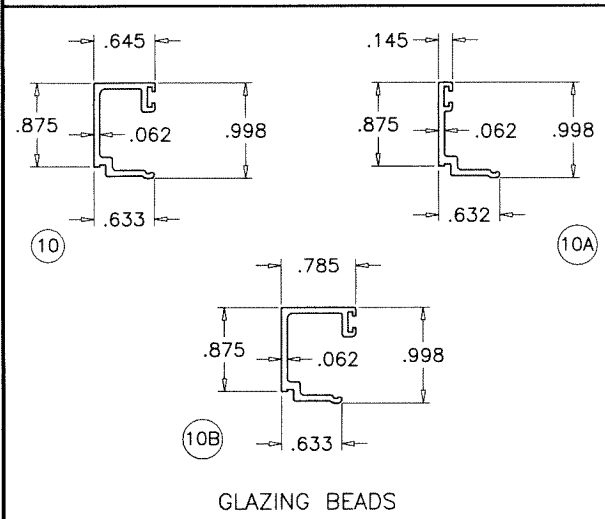
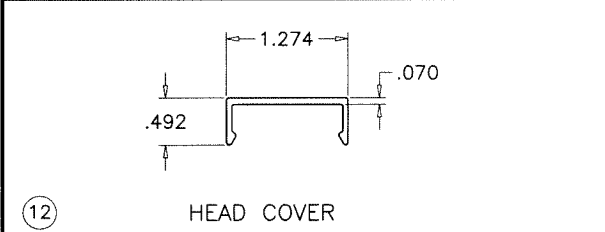
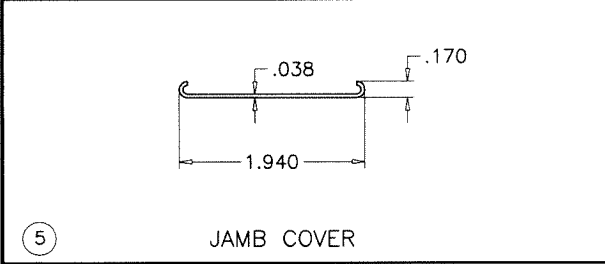
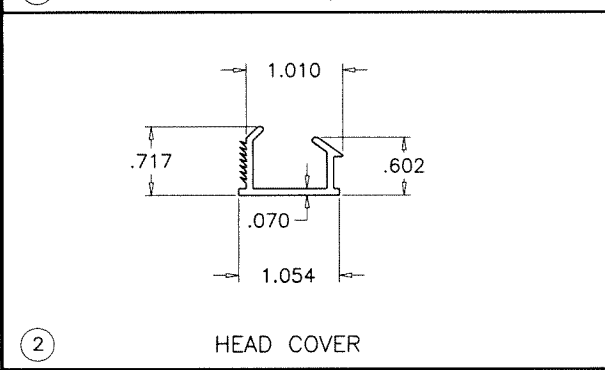
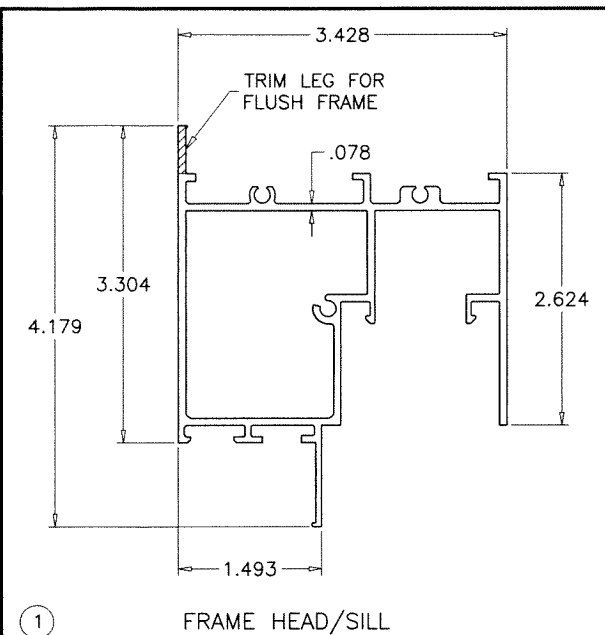
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drawing no.

**19-68F**

sheet 11 of 13

COMP-ANL\19-68F-AWC



Sealed: 9/20/2023  
FL #30309

JALAL FAROOQ  
LICENSE  
No. 81223  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
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TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL 19-68F-AWC

SERIES-100HR ALUM HORIZ. ROLLING WDW. (L.M.I.)

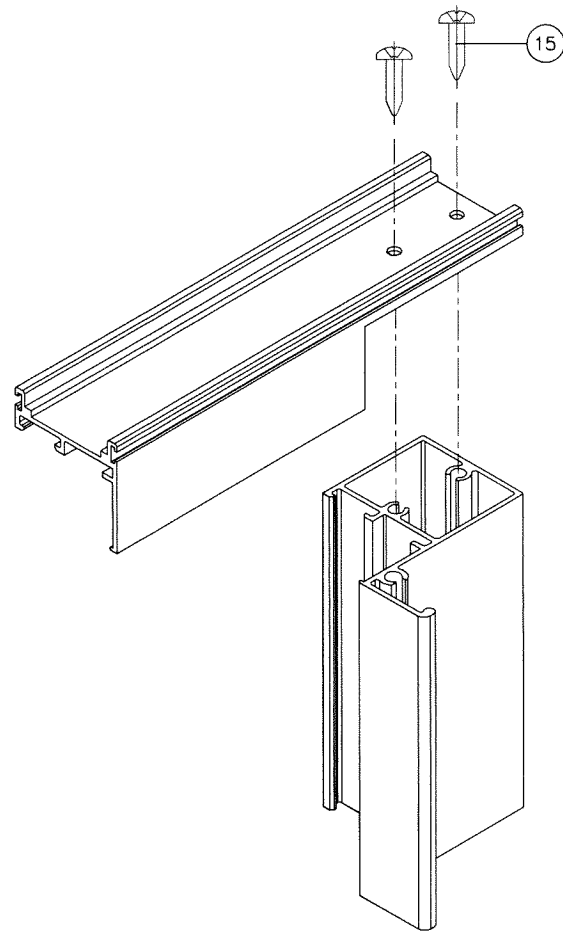
**Alcon Windows And Doors Corp.**  
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Miami, FL. 33166  
Tel. (305) 553-0229 Fax. (786) 363-8141

| revisions: |      | date |      | by description |      |
|------------|------|------|------|----------------|------|
| no         | date | no   | date | no             | date |
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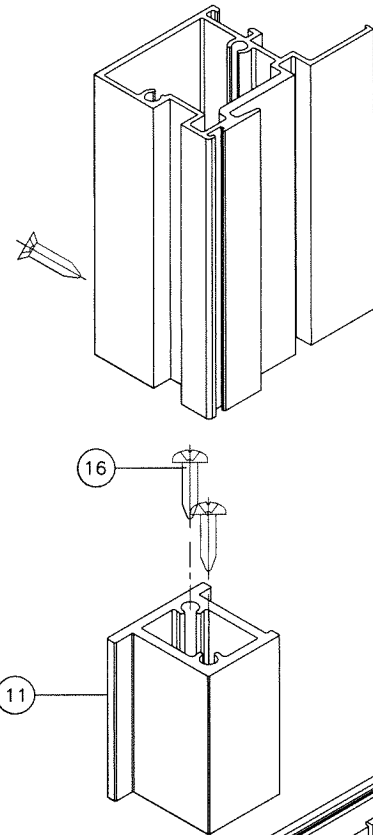
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scale: 1/2" = 1"  
dr. by: TARIQ  
chk. by: 

drawing no.  
**19-68F**

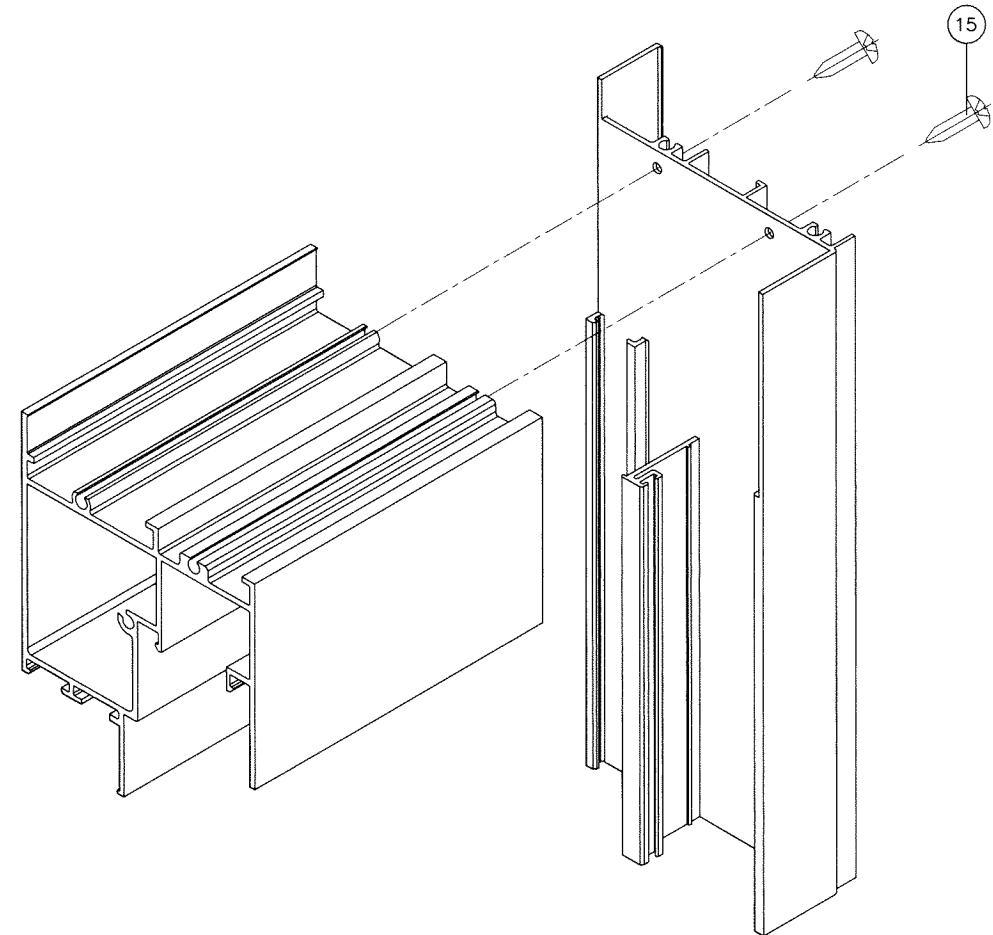
sheet 12 of 13



VENT TOP/BOTTOM CORNER



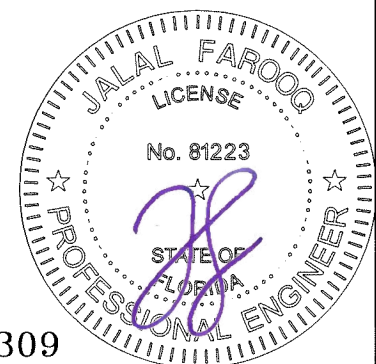
FIXED MTG. STILE CORNER



FRAME TOP/BOTTOM CORNER

Sealed: 9/20/2023

FL #30309



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(C.A.N. 3538)

COMP-ANL 19-68F-AWC

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dr. by: TARIQ

chk. by:

drawing no.

19-68F

sheet 13 of 13