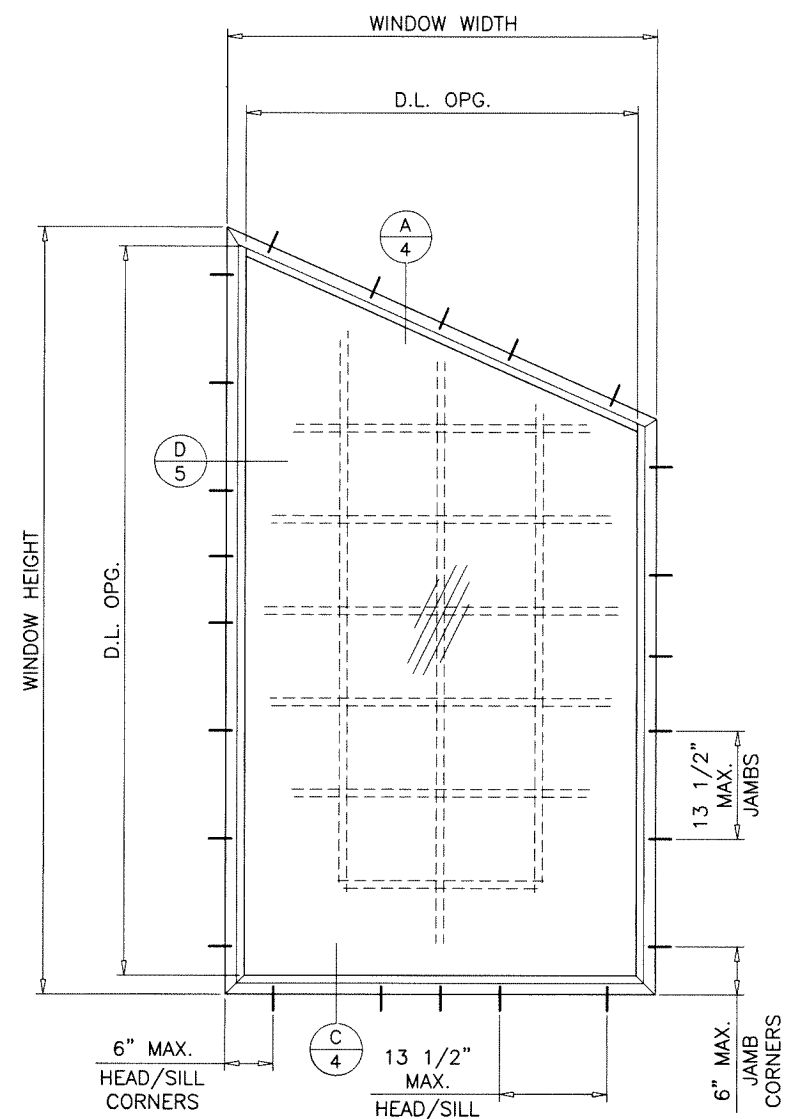
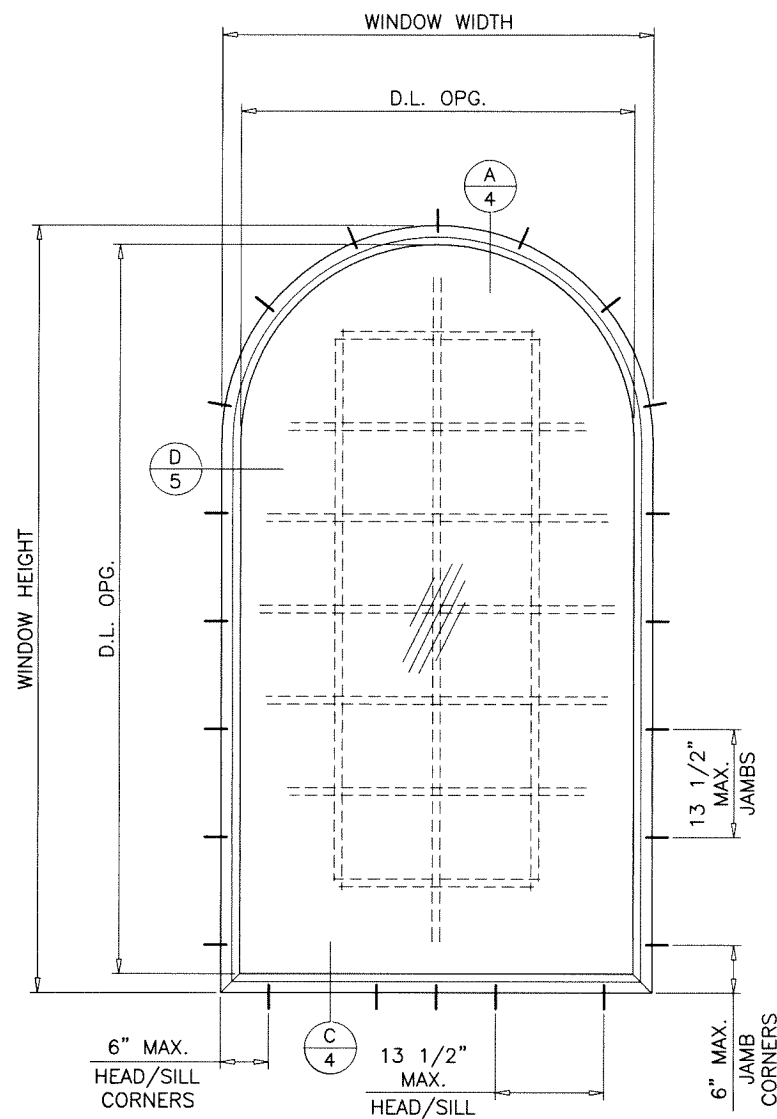
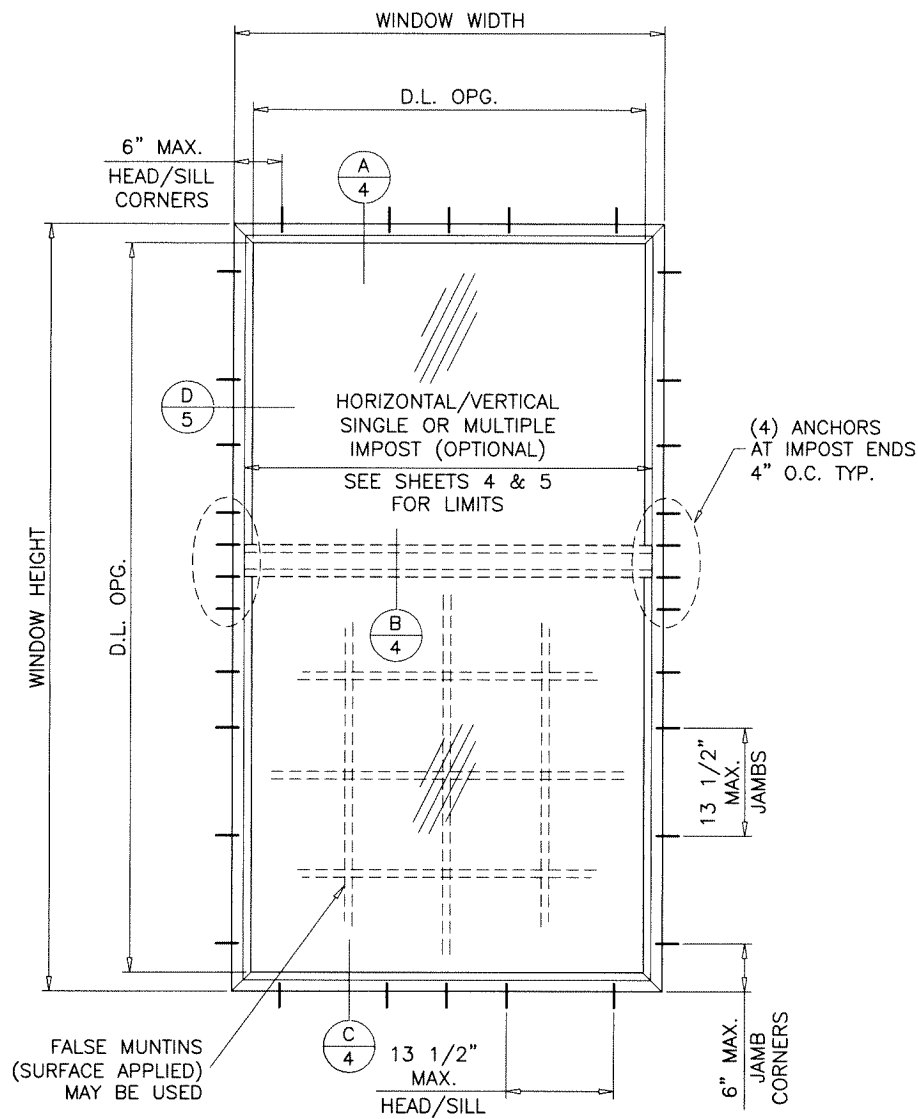




**TYPICAL ELEVATIONS**  
(TESTED UNITS)

**SERIES MG-450**  
**ALUMINUM FIXED WINDOW (L.M.I.)**

DESIGN LOAD RATINGS FOR THESE WINDOWS TO BE AS PER CHARTS SHOWN ON SHEET 2.

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE COMBINATIONS OF FIX./FIX. OR FIXED 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.

**DAYLITE OPENINGS:**

D.L.O. HEIGHT = WINDOW HEIGHT - 4.750"

D.L.O. WIDTH = WINDOW WIDTH - 4.750"

WINDOWS COMPLY WITH REQUIREMENTS OF ANSI Z97.1.

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

Sealed: 10/23/2023

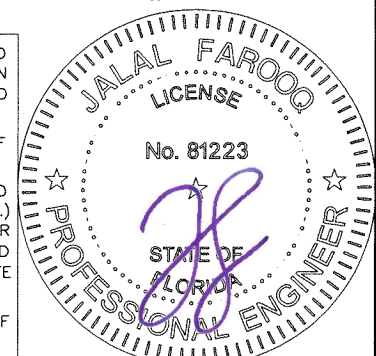
FL #40676.1

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.

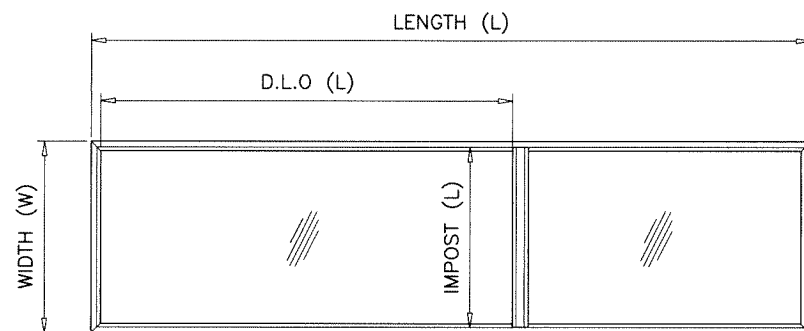
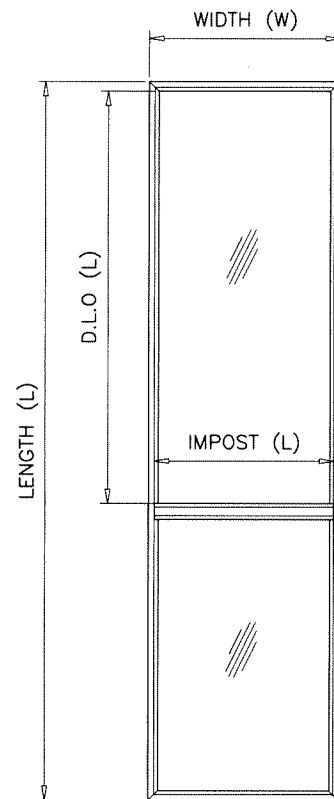
D- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.



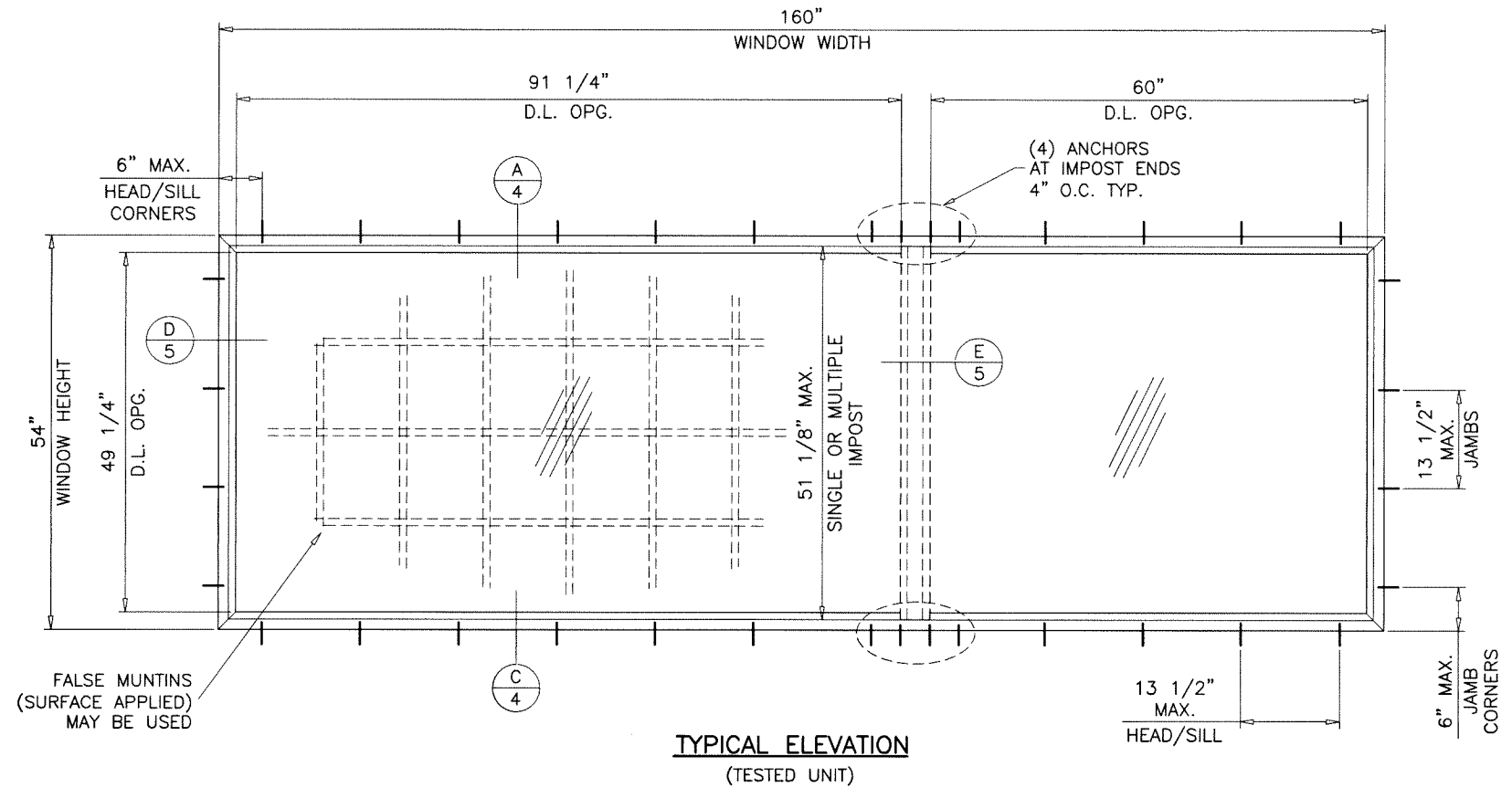
**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100  
WWW.AFCENG.COM  
FBPE #3538  
COMP-ANL\21-76F-MG

MG-450 ALUMINUM FIXED WDW. (L.M.I.)  
**MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC**  
8051 N.W. 79th Place  
Medley, FL. 33166  
Tel. (305) 764-3963  
www.mrglasswindows.com

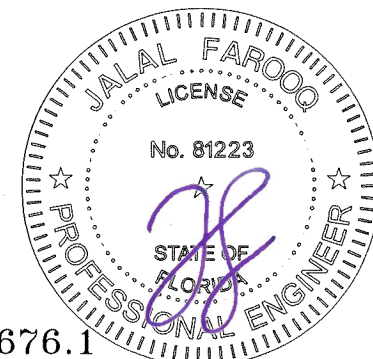
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|-------------|------------|----------|----------------|----|
|             | A          | 07.18.23 | NEW TEST ADDED |    |
| date:       | 12-23-21   |          |                |    |
| scale:      | 1/2"=1'-0" |          |                |    |
| dr. by:     | TARIQ      |          |                |    |
| chk. by:    |            |          |                |    |
| drawing no. | 21-76F     |          |                |    |
| sheet       | 1 of 8     |          |                |    |



| DESIGN LOAD CAPACITY - PSF<br>FOR WINDOWS SHOWN ON THIS SHEET ONLY |            |            |            |               |                                |         |
|--------------------------------------------------------------------|------------|------------|------------|---------------|--------------------------------|---------|
| MAX. FRAME DIMS.                                                   |            |            |            |               | GLASS TYPES<br>'A', 'Ai' & 'B' |         |
| WIDTH (W)                                                          | LENGTH (L) | D.L.O. (L) | IMPOST (L) | IMPOST REINF. | EXT.(+)                        | 1NT.(-) |
| 48"                                                                | 180"       | 103-1/4"   | 45-1/8"    | W/O TUBE      | 80.0                           | 80.0    |
| 51"                                                                | 169-3/8"   | 96-7/8"    | 48-1/8"    |               | 76.7                           | 76.7    |
| 54"                                                                | 160"       | 91-1/4"    | 51-1/8"    |               | 60.2                           | 60.2    |
| 48"                                                                | 180"       | 103-1/4"   | 45-1/8"    | WITH TUBE     | 80.0                           | 80.0    |
| 51"                                                                | 169-3/8"   | 96-7/8"    | 48-1/8"    |               | 80.0                           | 80.0    |
| 54"                                                                | 160"       | 91-1/4"    | 51-1/8"    |               | 80.0                           | 80.0    |



Sealed: 10/23/2023



FL #40676.1

**af c**  
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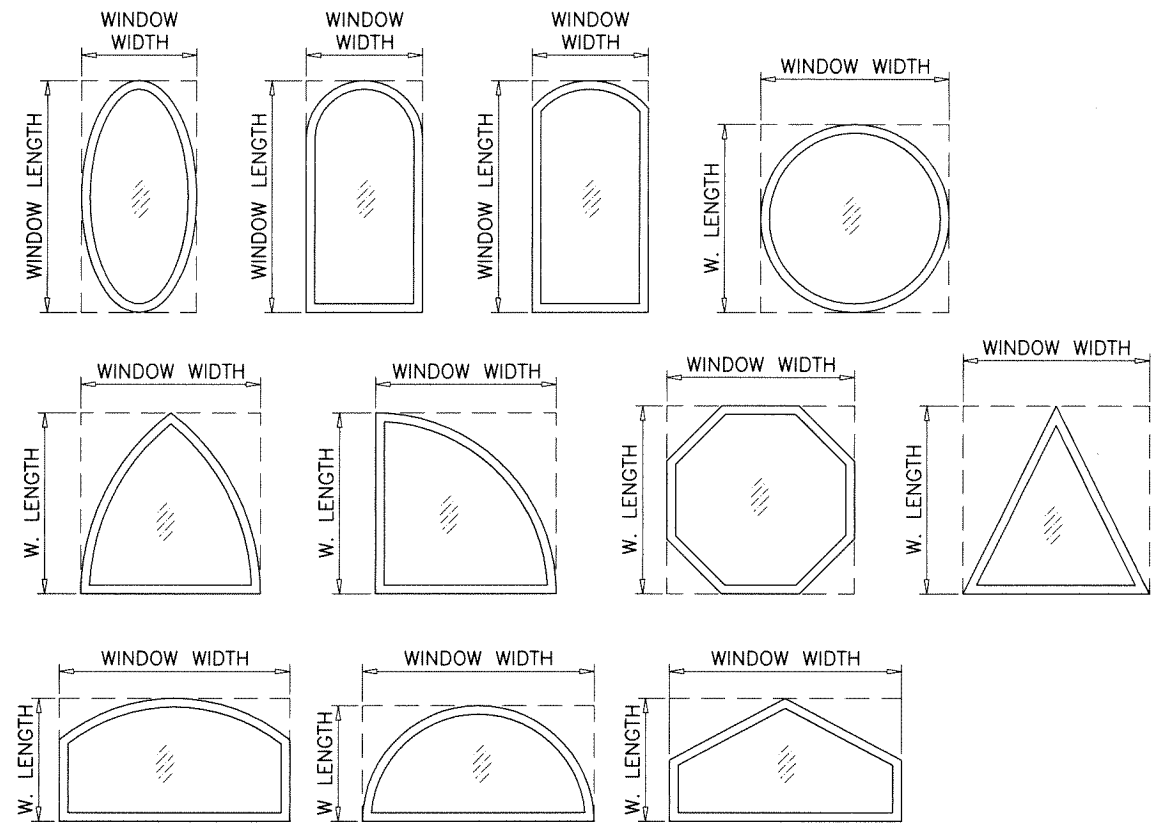
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| drawing no. | 21-76F   | sheet                  | 1.1 of 8   |

| DESIGN LOAD CAPACITY - PSF |            |                           |         |                   |         |
|----------------------------|------------|---------------------------|---------|-------------------|---------|
| MAX. FRAME DIMS.           |            | GLASS TYPES<br>'A' & 'Ai' |         | GLASS TYPE<br>'B' |         |
| WIDT (W)                   | LENGTH (L) | EXT.(+)                   | INT.(-) | EXT.(+)           | INT.(-) |
| 30"                        | 48"        | 80.0                      | 80.0    | 100.0             | 130.0   |
| 36"                        |            | 80.0                      | 80.0    | 100.0             | 130.0   |
| 42"                        |            | 80.0                      | 80.0    | 100.0             | 130.0   |
| 48"                        |            | 80.0                      | 80.0    | 100.0             | 130.0   |
| 54"                        |            | 80.0                      | 80.0    | 100.0             | 130.0   |
| 60"                        |            | 80.0                      | 80.0    | 100.0             | 130.0   |
| 66"                        |            | 80.0                      | 80.0    | 100.0             | 130.0   |
| 72"                        |            | 80.0                      | 80.0    | 100.0             | 130.0   |
| 76"                        |            | -                         | -       | 85.0              | 120.0   |
| 30"                        | 54"        | 80.0                      | 80.0    | 100.0             | 130.0   |
| 36"                        |            | 80.0                      | 80.0    | 100.0             | 130.0   |
| 42"                        |            | 80.0                      | 80.0    | 100.0             | 130.0   |
| 48"                        |            | 80.0                      | 80.0    | 100.0             | 130.0   |
| 54"                        |            | 80.0                      | 80.0    | 100.0             | 130.0   |
| 60"                        |            | 72.0                      | 72.0    | 100.0             | 130.0   |
| 66"                        |            | 72.0                      | 72.0    | 100.0             | 130.0   |
| 72"                        |            | 72.0                      | 72.0    | 100.0             | 130.0   |
| 76"                        |            | -                         | -       | 97.8              | 127.2   |
| 30"                        | 60"        | 80.0                      | 80.0    | 100.0             | 130.0   |
| 36"                        |            | 80.0                      | 80.0    | 100.0             | 130.0   |
| 42"                        |            | 80.0                      | 80.0    | 100.0             | 130.0   |
| 48"                        |            | 80.0                      | 80.0    | 100.0             | 130.0   |
| 54"                        |            | 80.0                      | 80.0    | 100.0             | 130.0   |
| 60"                        |            | 72.0                      | 72.0    | 100.0             | 130.0   |
| 66"                        |            | 72.0                      | 72.0    | 100.0             | 130.0   |
| 72"                        |            | 72.0                      | 72.0    | 94.5              | 122.8   |
| 30"                        | 66-1/8"    | 80.0                      | 80.0    | 100.0             | 130.0   |
| 36"                        |            | 80.0                      | 80.0    | 100.0             | 130.0   |
| 42"                        |            | 80.0                      | 80.0    | 100.0             | 130.0   |
| 48"                        |            | 80.0                      | 80.0    | 100.0             | 130.0   |
| 54"                        |            | 80.0                      | 80.0    | 100.0             | 130.0   |
| 60"                        |            | 72.0                      | 72.0    | 100.0             | 130.0   |
| 66"                        |            | 65.5                      | 65.5    | 100.0             | 130.0   |
| 66-1/8"                    |            | 60.0                      | 60.0    | 100.0             | 130.0   |
| 30"                        | 72"        | 80.0                      | 80.0    | 100.0             | 130.0   |
| 36"                        |            | 80.0                      | 80.0    | 100.0             | 130.0   |
| 42"                        |            | 80.0                      | 80.0    | 100.0             | 130.0   |
| 48"                        |            | 80.0                      | 80.0    | 100.0             | 130.0   |
| 54"                        |            | 80.0                      | 80.0    | 98.0              | 127.4   |
| 60"                        |            | 72.0                      | 72.0    | 94.5              | 122.8   |
| 66"                        |            | 65.5                      | 65.5    | 65.5              | 87.3    |
| 72"                        |            | 60.0                      | 60.0    | 60.0              | 80.0    |
| 30"                        | 84"        | 80.0                      | 80.0    | 100.0             | 130.0   |
| 36"                        |            | 80.0                      | 80.0    | 100.0             | 130.0   |
| 42"                        |            | 80.0                      | 80.0    | 100.0             | 130.0   |
| 48"                        |            | 80.0                      | 80.0    | 96.4              | 125.4   |
| 54"                        |            | 80.0                      | 80.0    | 80.0              | 106.7   |
| 60"                        |            | 72.0                      | 72.0    | 72.0              | 96.0    |
| 66"                        |            | -                         | -       | 61.8              | 87.3    |

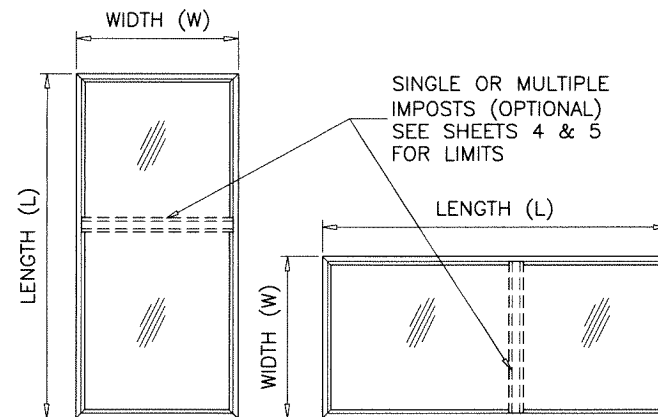
NOTE:  
GLASS CAPACITIES ON THIS SHEET ARE  
BASED ON ASTM E1300-09 (3 SEC. GUSTS).

| DESIGN LOAD CAPACITY - PSF |            |                           |         |                   |         |
|----------------------------|------------|---------------------------|---------|-------------------|---------|
| MAX. FRAME DIMS.           |            | GLASS TYPES<br>'A' & 'Ai' |         | GLASS TYPE<br>'B' |         |
| WIDT (W)                   | LENGTH (L) | EXT.(+)                   | INT.(-) | EXT.(+)           | INT.(-) |
| 30"                        | 96"        | 80.0                      | 80.0    | 100.0             | 130.0   |
| 36"                        |            | 80.0                      | 80.0    | 100.0             | 130.0   |
| 42"                        |            | 80.0                      | 80.0    | 100.0             | 130.0   |
| 48"                        |            | 80.0                      | 80.0    | 85.0              | 120.0   |
| 54"                        |            | 80.0                      | 80.0    | 80.0              | 106.7   |
| 60"                        |            | -                         | -       | 68.0              | 96.0    |
| 30"                        | 108"       | 80.0                      | 80.0    | 100.0             | 130.0   |
| 36"                        |            | 80.0                      | 80.0    | 100.0             | 130.0   |
| 42"                        |            | 80.0                      | 80.0    | 85.0              | 120.0   |
| 48"                        | 120"       | 80.0                      | 80.0    | 85.0              | 120.0   |
| 30"                        |            | 80.0                      | 80.0    | 100.0             | 130.0   |
| 36"                        |            | 80.0                      | 80.0    | 100.0             | 130.0   |
| 42"                        | 132"       | 80.0                      | 80.0    | 85.0              | 120.0   |
| 30"                        |            | 80.0                      | 80.0    | 85.0              | 120.0   |
| 36"                        |            | -                         | -       | 85.0              | 120.0   |
| 30"                        | 144"       | 80.0                      | 80.0    | 100.0             | 130.0   |
| 36"                        |            | 80.0                      | 80.0    | 85.0              | 120.0   |
| 30"                        | 156"       | 80.0                      | 80.0    | 85.0              | 120.0   |
| 36"                        |            | -                         | -       | 85.0              | 120.0   |
| 30"                        | 168"       | 80.0                      | 80.0    | 85.0              | 120.0   |

| DESIGN LOAD CAPACITY - PSF |            |                           |         |                   |         |
|----------------------------|------------|---------------------------|---------|-------------------|---------|
| MAX. FRAME DIMS.           |            | GLASS TYPES<br>'A' & 'Ai' |         | GLASS TYPE<br>'B' |         |
| WIDT (W)                   | LENGTH (L) | EXT.(+)                   | INT.(-) | EXT.(+)           | INT.(-) |
| 19-1/8"                    | 26"        | 80.0                      | 80.0    | 100.0             | 130.0   |
| 26-1/2"                    |            | 80.0                      | 80.0    | 100.0             | 130.0   |
| 37"                        |            | 80.0                      | 80.0    | 100.0             | 130.0   |
| 53-1/8"                    |            | 80.0                      | 80.0    | 100.0             | 130.0   |
| 19-1/8"                    | 38-3/8"    | 80.0                      | 80.0    | 100.0             | 130.0   |
| 26-1/2"                    |            | 80.0                      | 80.0    | 100.0             | 130.0   |
| 37"                        |            | 80.0                      | 80.0    | 100.0             | 130.0   |
| 53-1/8"                    |            | 80.0                      | 80.0    | 100.0             | 130.0   |
| 19-1/8"                    | 50-5/8"    | 80.0                      | 80.0    | 100.0             | 130.0   |
| 26-1/2"                    |            | 80.0                      | 80.0    | 100.0             | 130.0   |
| 37"                        |            | 80.0                      | 80.0    | 100.0             | 130.0   |
| 53-1/8"                    |            | 80.0                      | 80.0    | 100.0             | 130.0   |
| 19-1/8"                    | 56"        | 80.0                      | 80.0    | 100.0             | 130.0   |
| 26-1/2"                    |            | 80.0                      | 80.0    | 100.0             | 130.0   |
| 37"                        |            | 80.0                      | 80.0    | 100.0             | 130.0   |
| 53-1/8"                    |            | 80.0                      | 80.0    | 100.0             | 130.0   |
| 19-1/8"                    | 63"        | 80.0                      | 80.0    | 100.0             | 130.0   |
| 26-1/2"                    |            | 80.0                      | 80.0    | 100.0             | 130.0   |
| 37"                        |            | 80.0                      | 80.0    | 100.0             | 130.0   |
| 53-1/8"                    |            | 80.0                      | 80.0    | 100.0             | 130.0   |
| 19-1/8"                    | 72"        | 80.0                      | 80.0    | 100.0             | 130.0   |
| 26-1/2"                    |            | 80.0                      | 80.0    | 100.0             | 130.0   |
| 37"                        |            | 80.0                      | 80.0    | 100.0             | 130.0   |
| 53-1/8"                    |            | 80.0                      | 80.0    | 98.6              | 128.2   |
| 19-1/8"                    | 76"        | 80.0                      | 80.0    | 100.0             | 130.0   |
| 26-1/2"                    |            | 80.0                      | 80.0    | 100.0             | 130.0   |
| 37"                        |            | 80.0                      | 80.0    | 100.0             | 130.0   |
| 53-1/8"                    |            | 80.0                      | 80.0    | 95.7              | 124.4   |

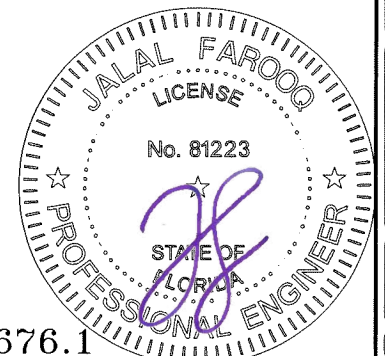


ALLOWABLE LOADS FOR ALTERNATE SHAPES AS SHOWN ABOVE OR SIMILAR CAN BE  
VERIFIED BY INSCRIBING PICTURE WINDOW SHAPE WITHIN SQUARE OR RECTANGLE AS  
SHOWN IN DOTTED LINES AND OBTAINING ALLOWABLE LOADS FROM THOSE SHAPES.  
LIMIT MAX. DESIGN LOADS FOR ALTERNATE SHAPES TO  $\pm 80.0$  PSF



NOTE:  
WIDTH AND LENGTH DIMENSIONS CAN BE  
ORIENTED VERTICALLY OR HORIZONTALLY  
AS SHOWN ABOVE.

Sealed: 10/23/2023

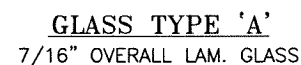


FL #40676.1

**af c**  
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revisions:  
no. date by description  
12-23-21  
scale: -  
dr. by: TARIQ  
chk. by:  
drawing no.  
**21-76F**  
sheet 2 of 8



GLASS TYPE 'Ai'  
13/16" OVERALL INSUL. LAM. GLASS

A circular professional engineer seal for the State of Florida. The outer ring contains the text "JALAL FAROOQ" at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by two stars. Inside this ring, the word "LICENSE" is at the top and "STATE OF FLORIDA" is at the bottom, also separated by two stars. In the center, the license number "No. 81223" is displayed. A large, stylized purple signature is written across the center of the seal, overlapping the license number and the state name. The number "376.1" is printed in the bottom left corner of the page.

FL #40676.1

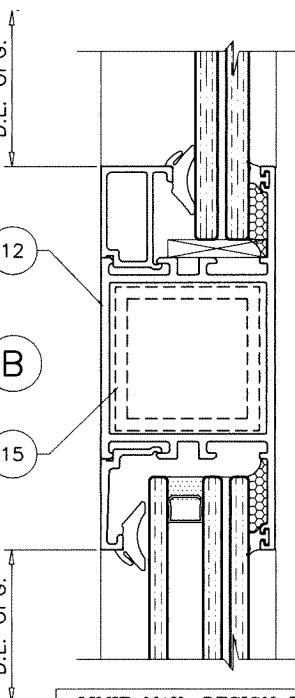
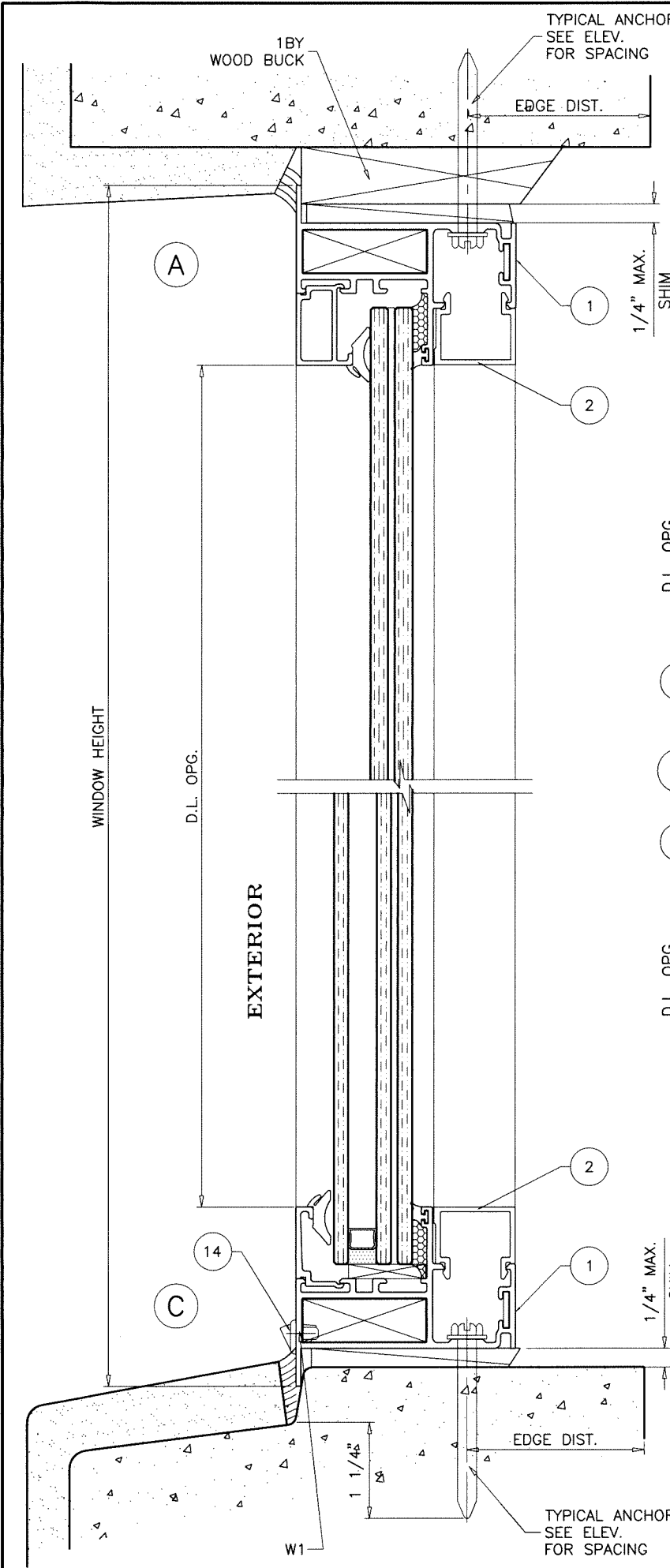
**AL-FAROOQ CORPORATION**  
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*FBPE #3538*

MG-450 ALUMINUM FIXED WDW. (L.M.I.)

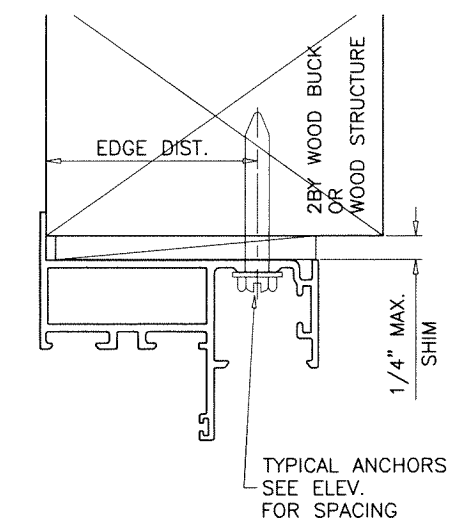
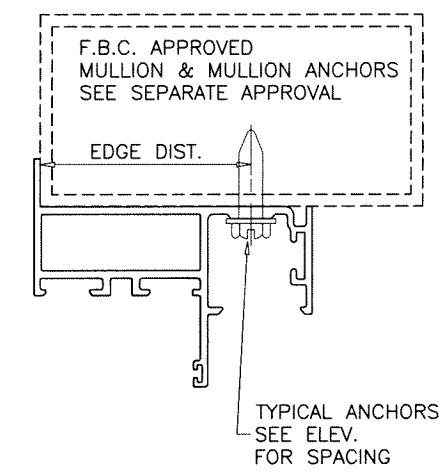
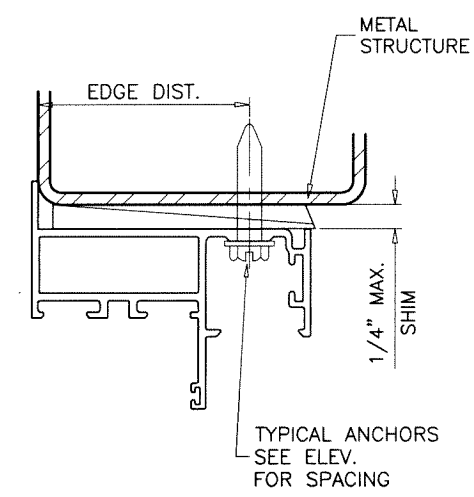
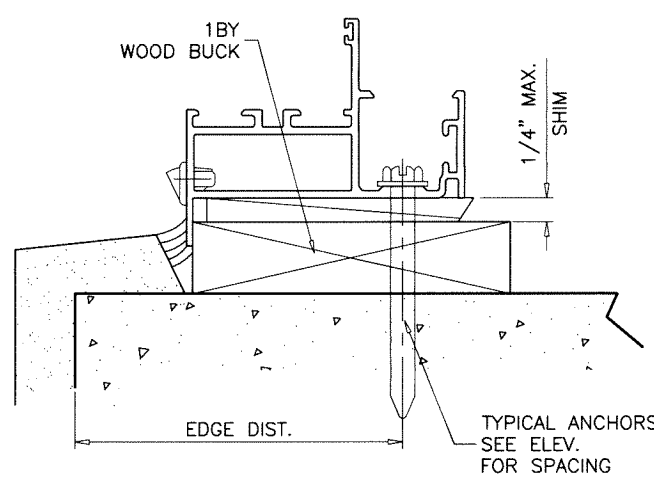
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|                    |    |            |                |
|--------------------|----|------------|----------------|
| date: 12-23-21     |    | revisions: |                |
| scale: 1/2" = 1"   | no | date       | by description |
| dr. by: TARIQ      |    |            |                |
| chk. by:           |    |            |                |
| drawing no. 21-76F |    |            |                |
| sheet 3 of 8       |    |            |                |



| LIMIT MAX. DESIGN LOADS FOR WINDOWS WITH IMPOST AS FOLLOWS |           |             |
|------------------------------------------------------------|-----------|-------------|
| MAX. LENGTH                                                | REINF.    | LOADS - PSF |
| 45-1/8"                                                    | W/O TUBE  | 80.0        |
| 48-1/8"                                                    |           | 76.7        |
| 51-1/8"                                                    |           | 60.2        |
| 51-1/8"                                                    | WITH TUBE | 80.0        |



WOOD BUCKS AND METAL STRUCTURE NOT BY 'MR. GLASS' MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

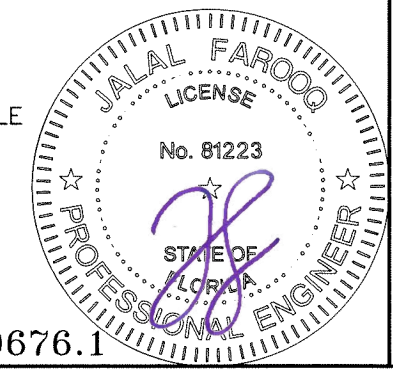
**TYPICAL ANCHORS:** SEE ELEV. FOR SPACING  
**1/4" DIA. ULTRACON+ BY 'DEWALT'** (Fu=164 KSI, Fy=148 KSI)  
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES  
 1-1/2" MIN. PENETRATION INTO WOOD (HEAD/SILL/JAMBS)  
 THRU 1BY BUCKS INTO CONC. OR BLOCKS  
 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)  
 1-1/4" 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)  
**#14 SMS OR SELF DRILLING SCREWS** (GRADE 2 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.

**WEEPHOLES:**  
 W1 = 5/16" X 1-3/4" WEEPHOLES WITH PLASTIC BAFFLE  
 AT 5-1/2" FROM EACH END

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FL #40676.1



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 FBPE #3538

COMP-ANL\21-76F-MG

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MG-450 ALUMINUM FIXED WDW. (L.M.I.)

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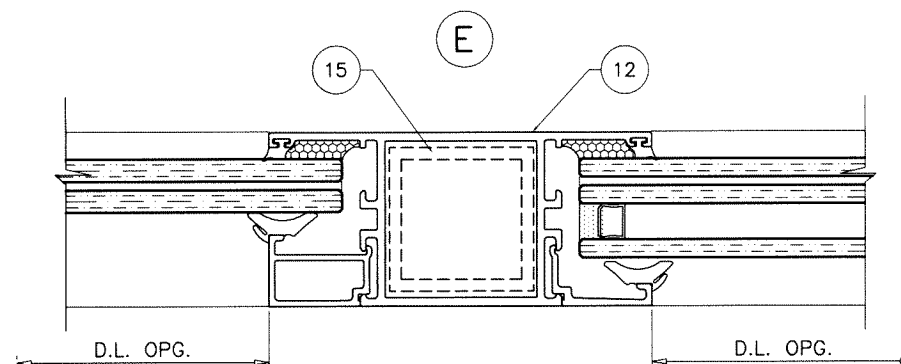
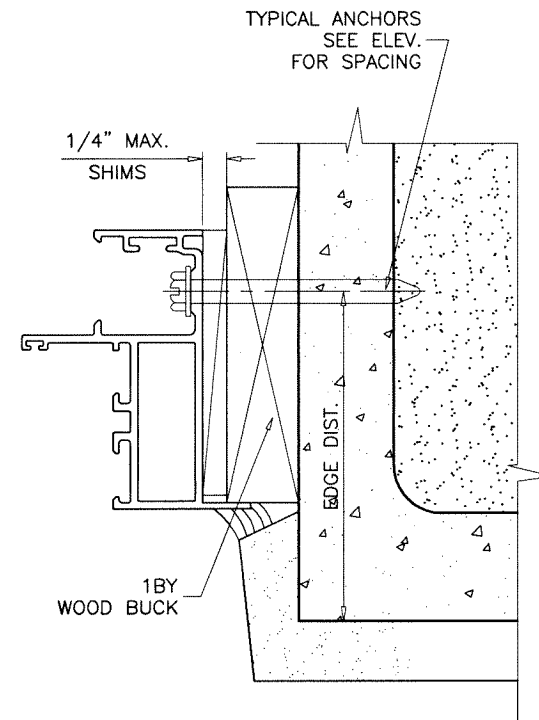
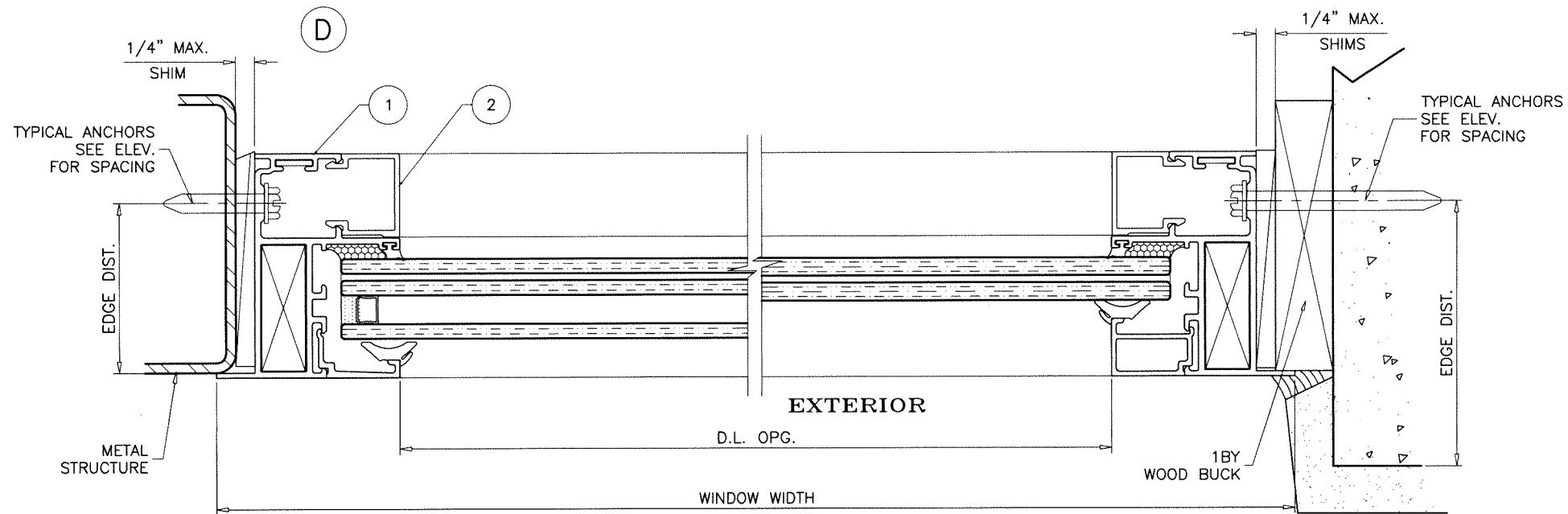
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| chk. by:   |          |        |           |         |             |

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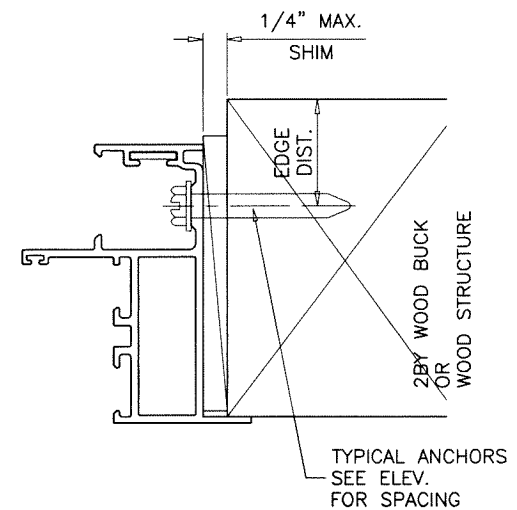
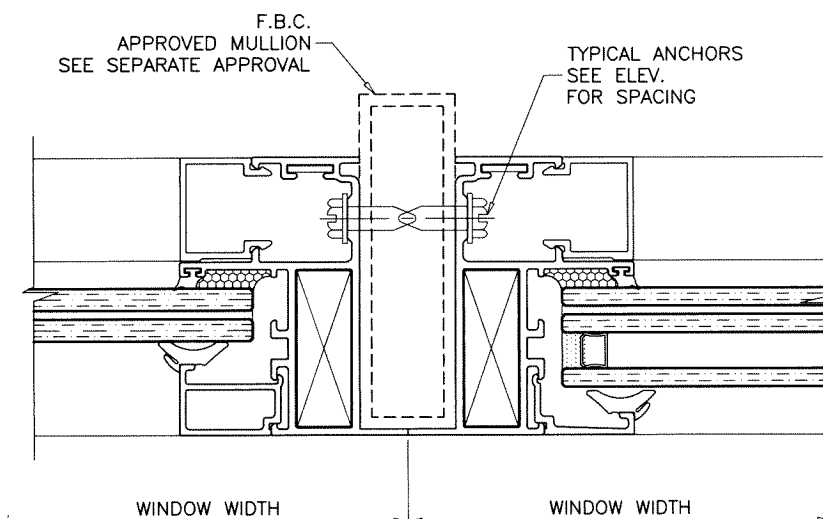
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**21-76F**

sheet 4 of 8

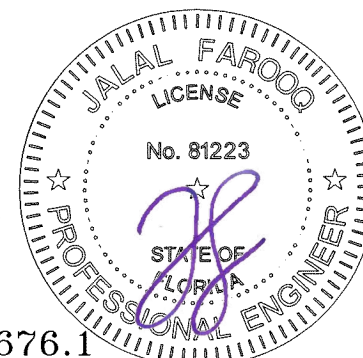
FL #40676.1



| LIMIT MAX. DESIGN LOADS FOR<br>WINDOWS WITH IMPOST AS FOLLOWS |           |             |
|---------------------------------------------------------------|-----------|-------------|
| MAX. LENGTH                                                   | REINF.    | LOADS - PSF |
| 45-1/8"                                                       | W/O TUBE  | 80.0        |
| 48-1/8"                                                       |           | 76.7        |
| 51-1/8"                                                       |           | 60.2        |
| 51-1/8"                                                       | WITH TUBE | 80.0        |



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**af c**  
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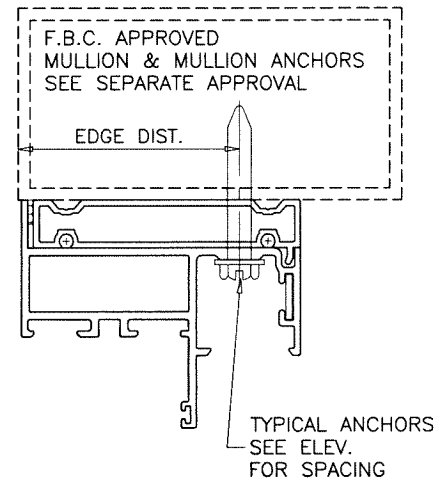
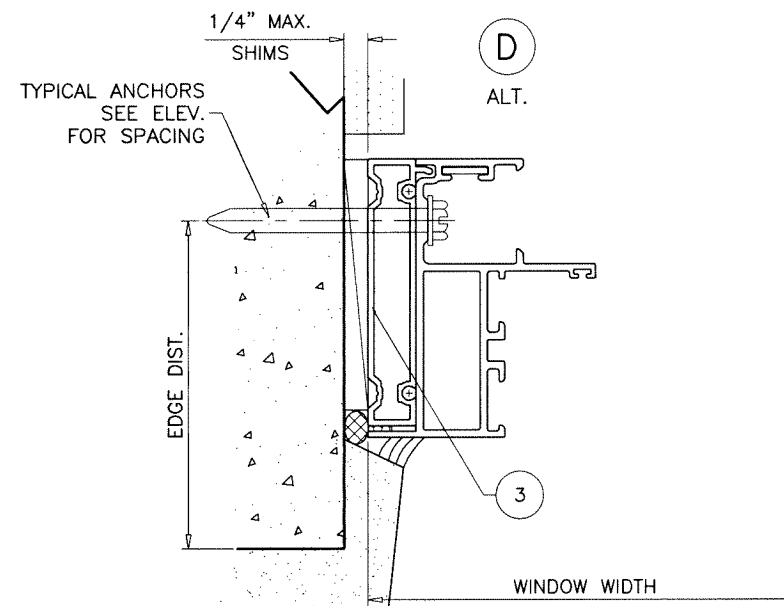
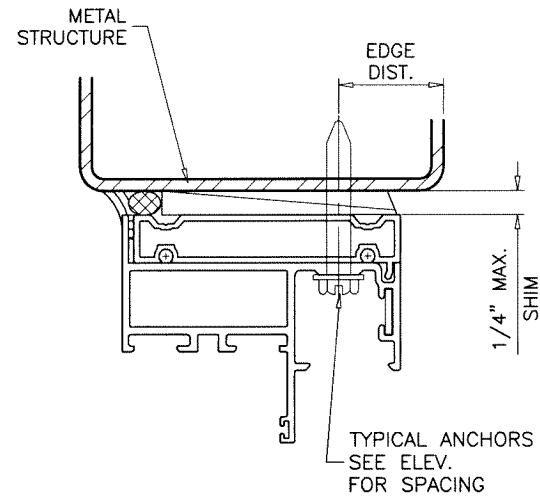
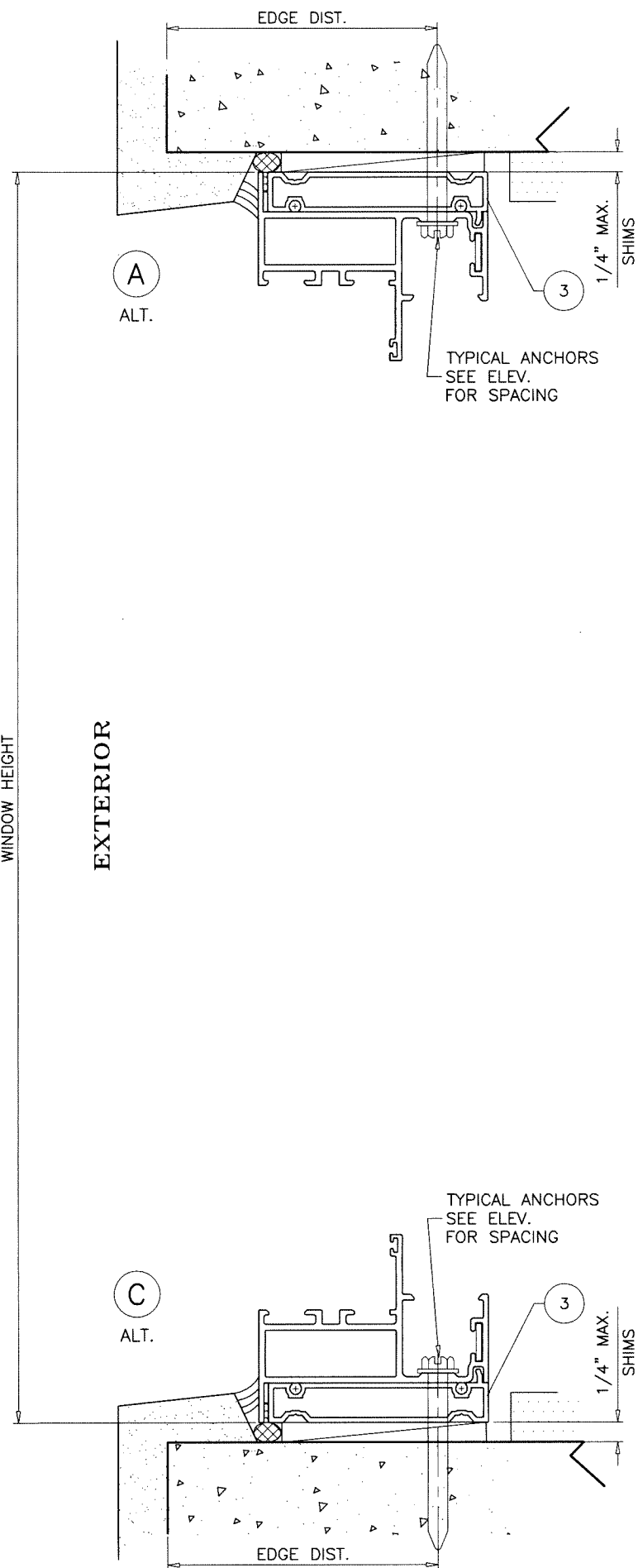
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date: 12-23-21  
 scale: 1/2" = 1"  
 dr. by: TARIQ  
 chk. by:

drawing no.  
**21-76F**  
 sheet 5 of 8

WINDOW HEIGHT

EXTERIOR

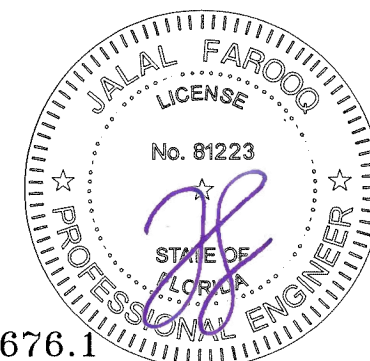


INSTALLATION DETAILS WITH FLUSH FRAME ADAPTERS

SEE SHEETS 4 & 5 FOR WINDOW DETAILS

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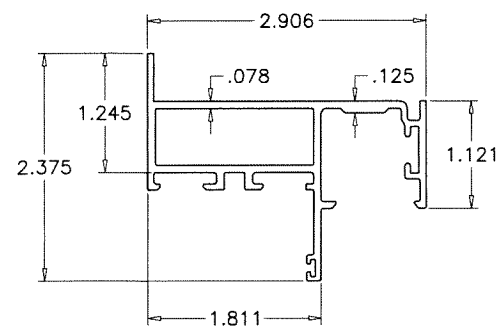
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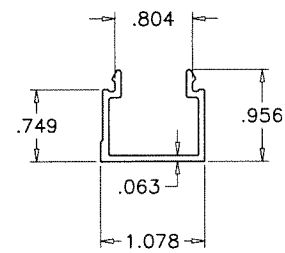
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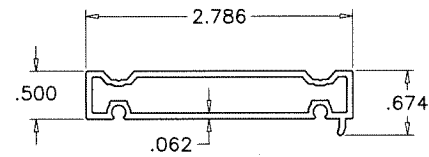
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| 21-76F       |
| sheet 6 of 8 |



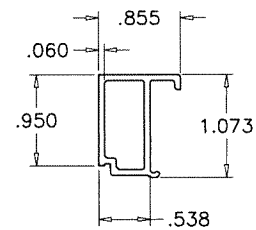
① WINDOW FRAME



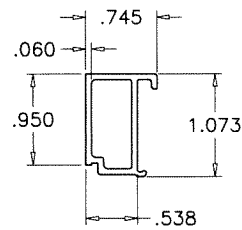
② SCREW COVER



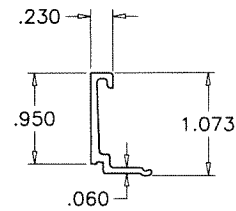
③ FLUSH FRAME ADAPTER



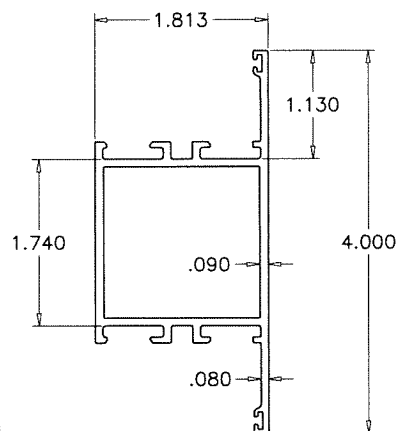
④ GLAZING BEAD  
7/16" LAM. GLASS



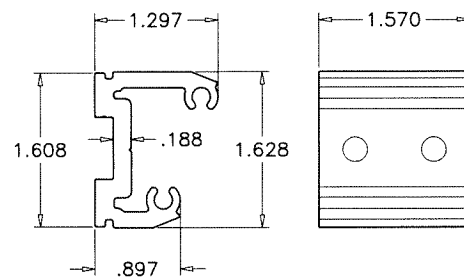
4A GLAZING BEAD  
9/16" LAM. GLASS



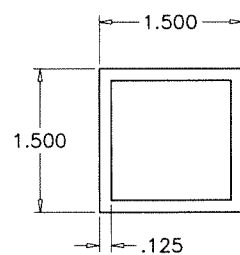
4B GLAZING BEAD  
INSUL. LAM. GLASS



(12) IMPOST



⑬ IMPOST SHEAR BLOCK



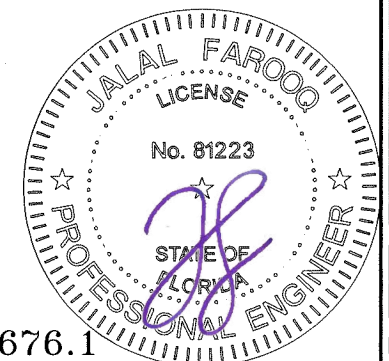
(15) IMPOST REINF.

| ITEM | PART #         | QUANTITY  | DESCRIPTION                      | MATERIAL   | MANF./SUPPLIER/REMARKS |
|------|----------------|-----------|----------------------------------|------------|------------------------|
| 1    | E-451          | 4         | WINDOW FRAME                     | 6063-T6    | -                      |
| 2    | E-452          | 4         | SCREW COVER                      | 6063-T5    | -                      |
| 3    | E-212          | 4         | FLUSH FRAME ADAPTER              | 6063-T6    | -                      |
| 4    | E-9001         | 4         | GLAZING BEAD (7/16" LAM. GLASS)  | 6063-T6    | -                      |
| 4A   | E-9004         | 4         | GLAZING BEAD (9/16" LAM. GLASS)  | 6063-T6    | -                      |
| 4B   | E-9002         | 4         | GLAZING BEAD (INSUL. LAM. GLASS) | 6063-T6    | -                      |
| 5    | G30-01         | AS REQD.  | INTERIOR GLAZING GASKET          | SANTOPRENE | -                      |
| 6    | G10-04         | AS REQD.  | EXTERIOR GLAZING GASKET          | EPDM       | -                      |
| 7    | G25-08         | AS REQD.  | SETTING BLOCKS AT 1/4 POINTS     | EPDM       | DUROMETER 80±5 SHORE A |
| 8    | 1/4-20 X 9/16" | AS REQD.  | FRAME ASSEMBLY FASTENERS         | ST/ST      | SOCKET HEAD MS         |
| 9    | #10 X 1"       | AS REQD.  | ADAPTER ASSEMBLY FASTENERS       | ST/ST      | F.H. SMS               |
| 10   | A45-01         | 1/ CORNER | FIXED CORNER KEY                 | 6063-T5    | -                      |
| 10A  | A45-01         | 1/ CORNER | ADJUSTABLE CORNER KEY            | 6063-T5    | -                      |
| 11   | A45-11         | 1/ CORNER | FIXED ALIGNMENT KEY              | ST. STEEL  | -                      |
| 11A  | A45-12         | 1/ CORNER | ADJUSTABLE ALIGNMENT KEY         | 6063-T5    | -                      |
| 12   | E-3012         | AS REQD.  | IMPOST                           | 6063-T6    | -                      |
| 13   | A30-02         | AS REQD.  | IMPOST SHEAR BLOCK               | 6063-T6    | -                      |
| 14   | G2-01          | 2         | DRAIN VALVE                      | PLASTIC    | -                      |
| 15   | -              | AS REQD.  | TUBE REINF. AT IMPOST            | 6063-T6    | -                      |
| 16   | -              | -         | -                                | -          | -                      |

SEALANT:

ALL JOINTS AND FRAME CONNECTIONS SEALED  
WITH SILICONE.

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| revisions: | no | date | by | description |
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date: 12-23-21

scale:  $1/2'' = 1''$

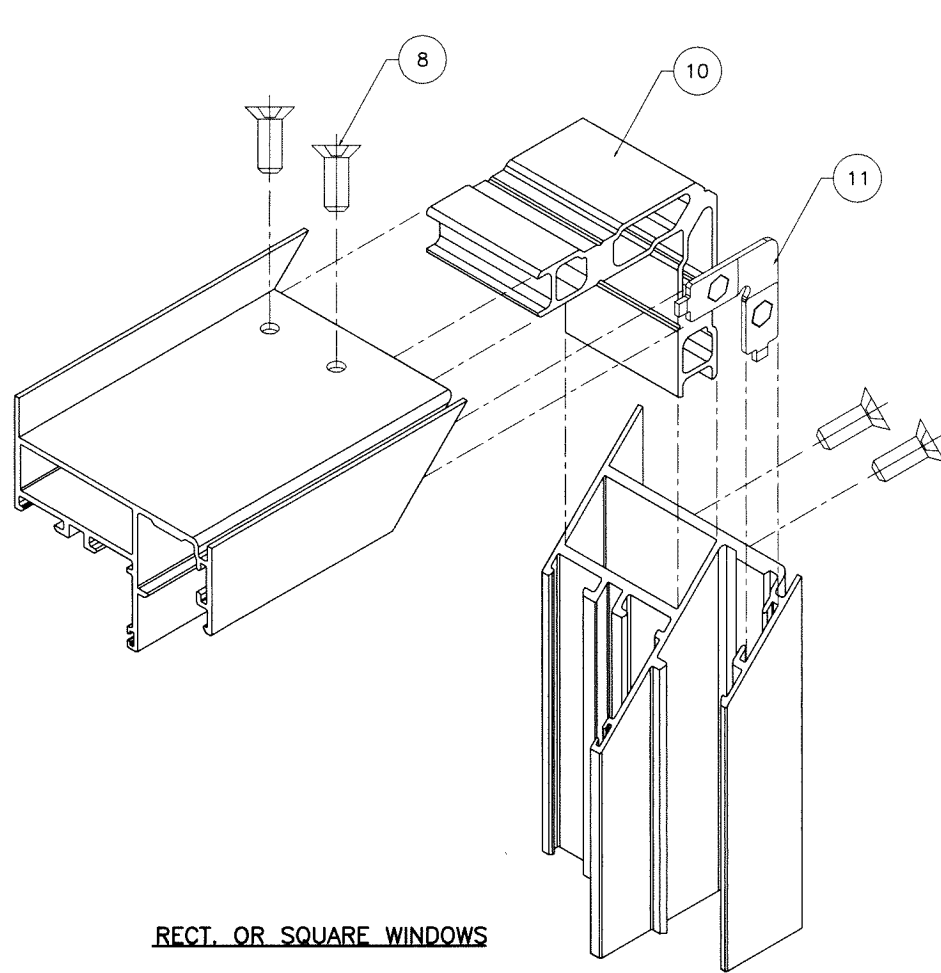
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chk. by:

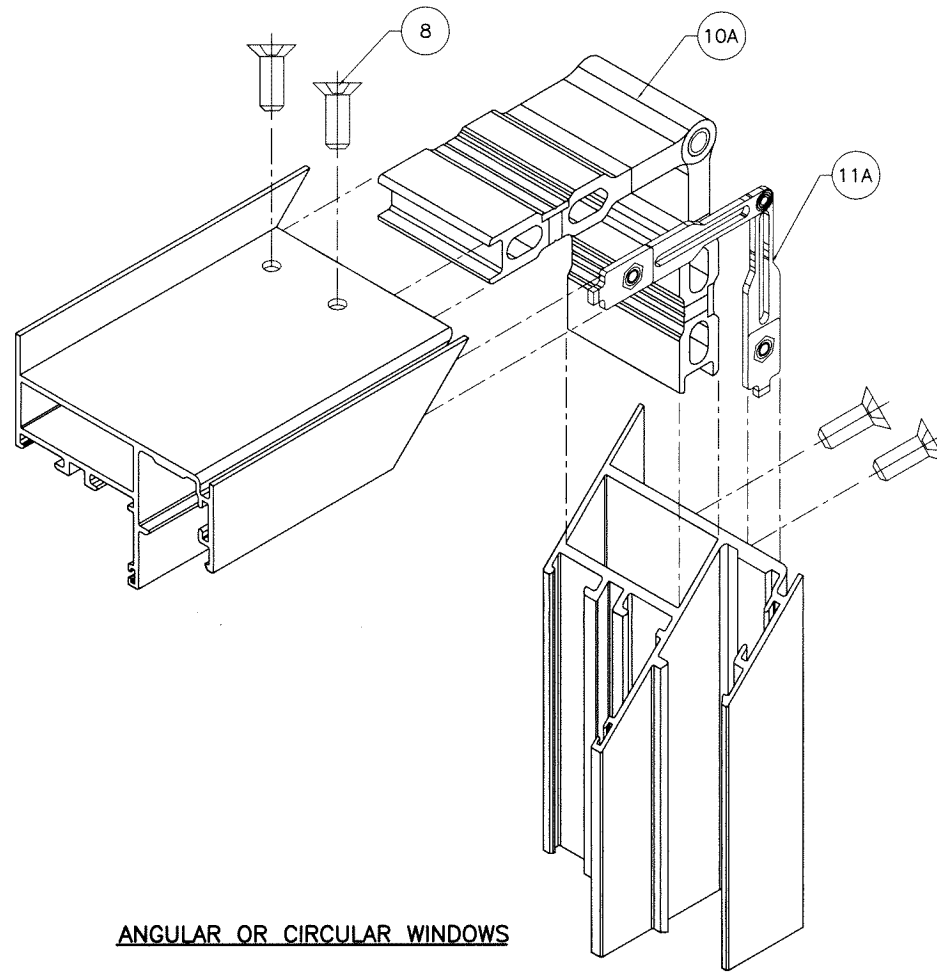
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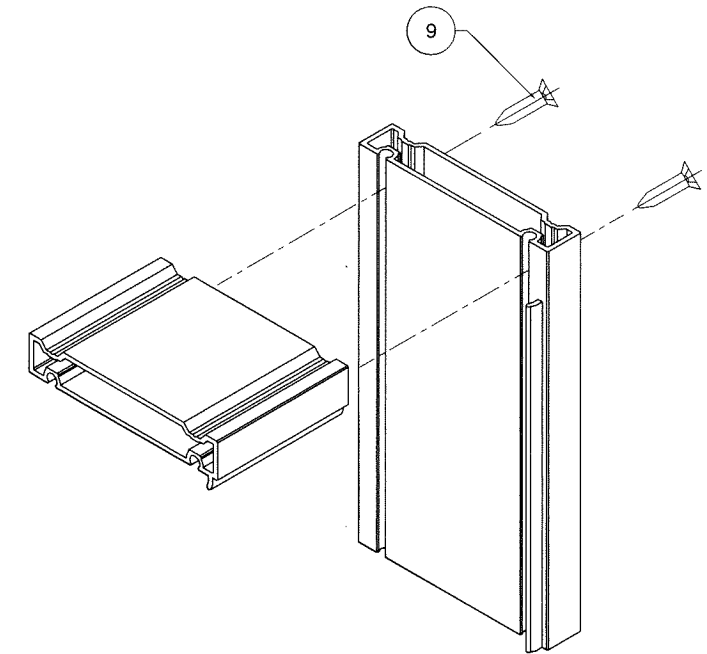
sheet 7 of 8



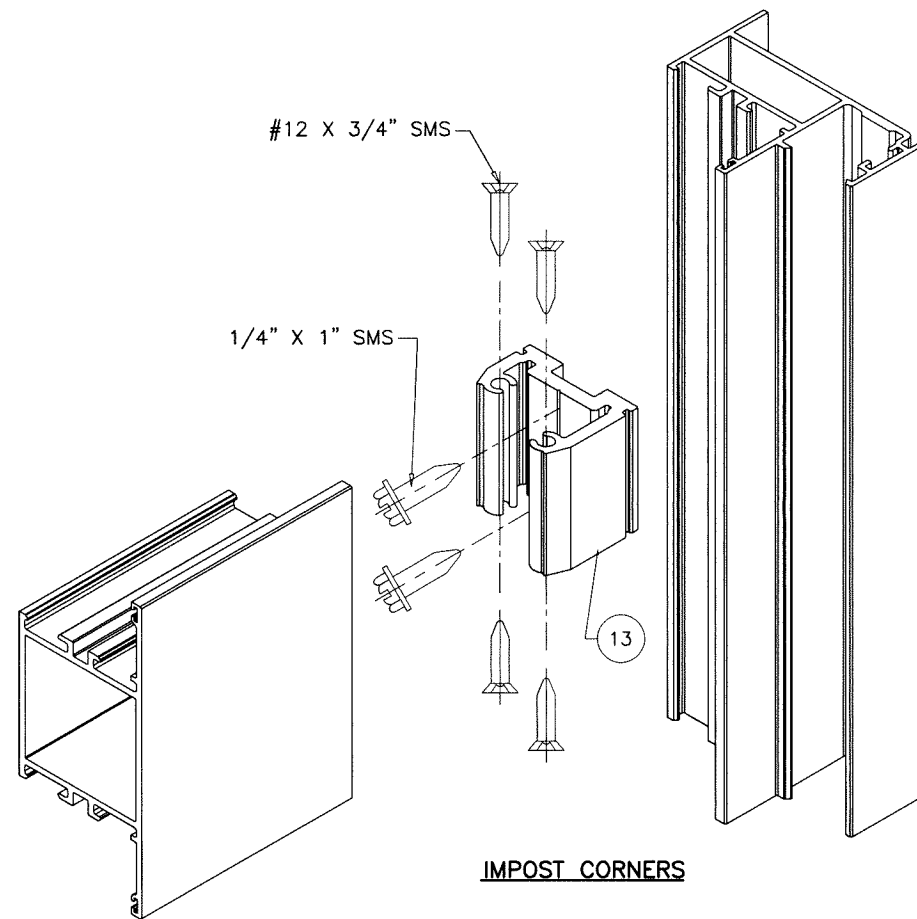
RECT. OR SQUARE WINDOWS



ANGULAR OR CIRCULAR WINDOWS

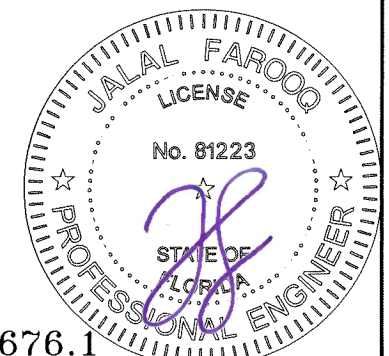


ADAPTER CORNERS



IMPOST CORNERS

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| revisions:  |          | no date by description |           |
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| drawing no. |          | 21-76F                 |           |
| sheet       |          | 8 of 8                 |           |