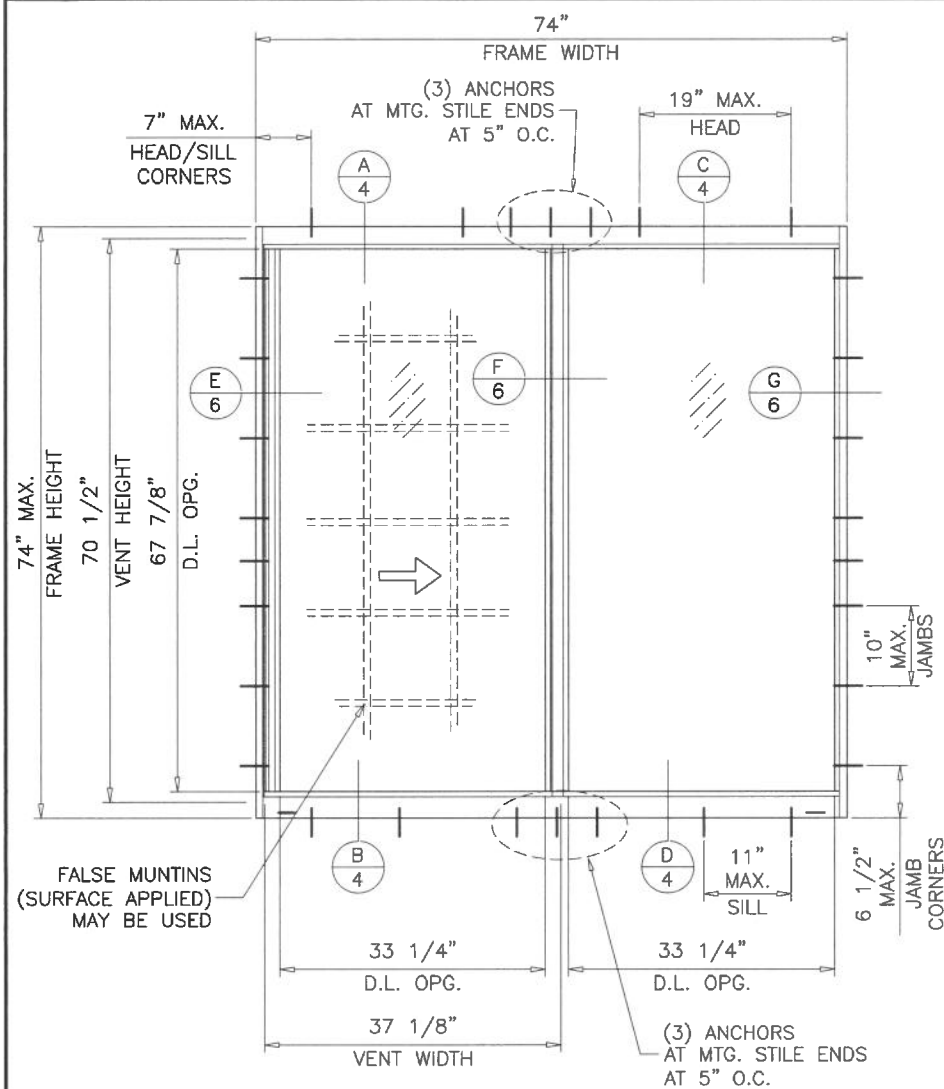
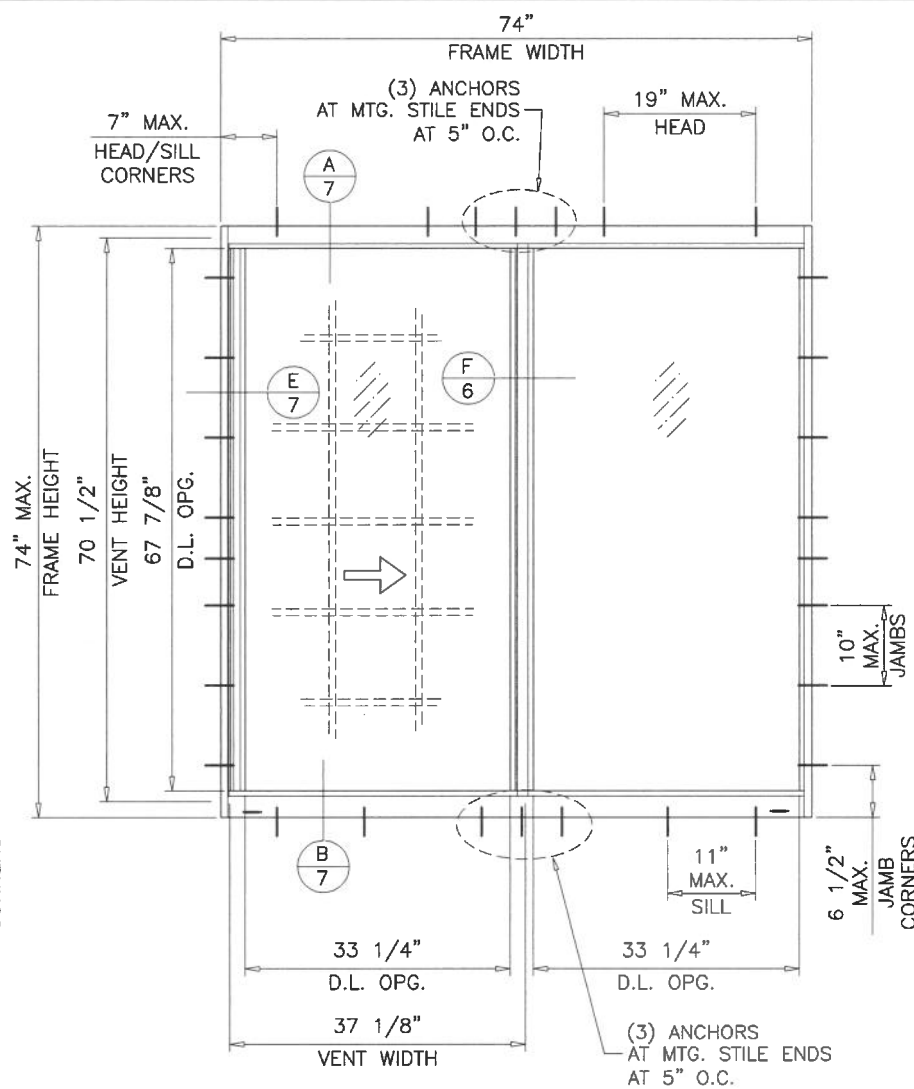
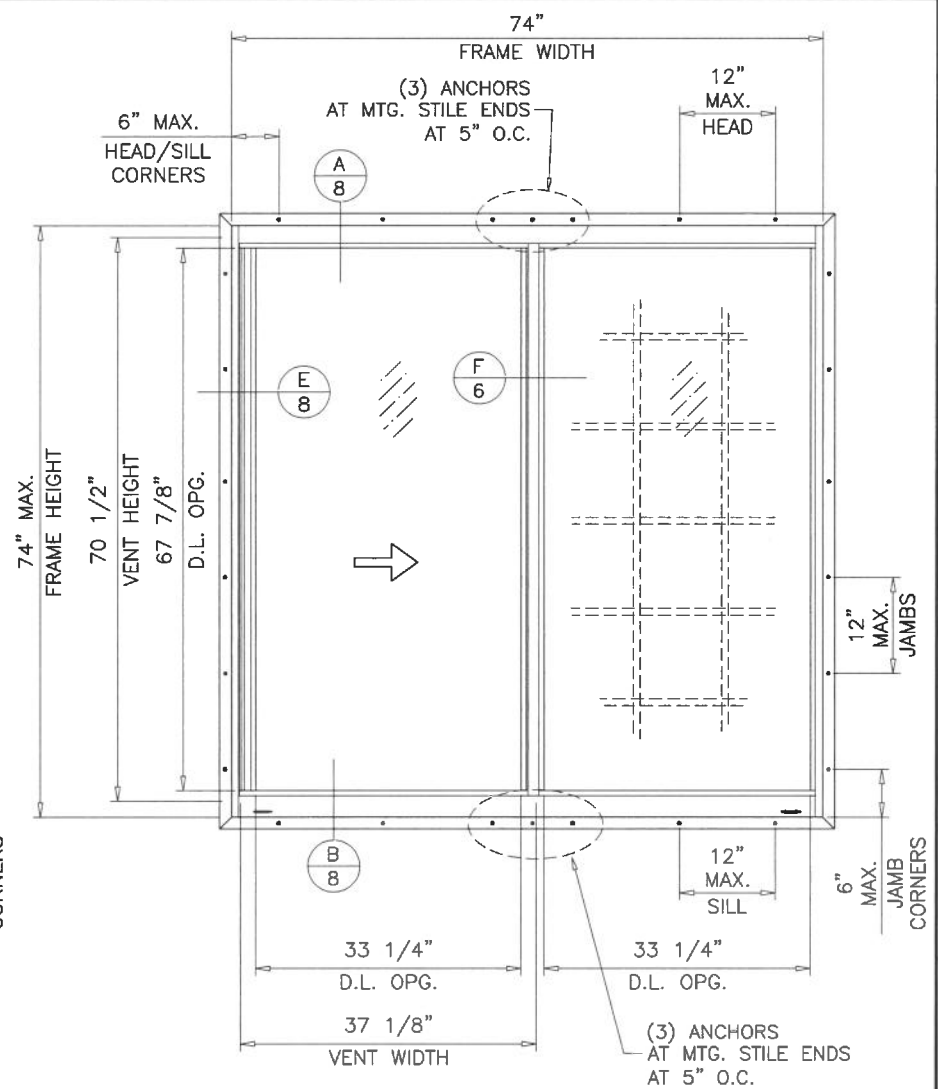




**TYPICAL ELEVATION**  
FLANGE FRAMES



**TYPICAL ELEVATION**  
FLANGE FRAMES WITH FLUSH ADAPTER



**TYPICAL ELEVATION**  
FLANGE FRAMES WITH FIN ADAPTER

## ES-EL200

### HORIZONTAL ROLLING ALUMINUM WINDOW (L.M.I.)

DESIGN LOAD RATINGS FOR THESE WINDOWS TO BE AS PER CHARTS SHOWN ON SHEETS 2.1 & 2.2.

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

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

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2023 (8TH EDITION)/2026 (9TH 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 LOAD-BEARING, (HIGH DENSITY PLASTIC/COMPOSITE, METAL OR OTHER RIGID MATERIALS).

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2023/2026 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)'.

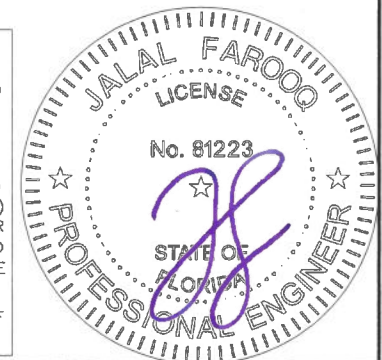
MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE. LABELING TO COMPLY WITH SECTION 1709.9.2.

FASTENERS AND CONNECTORS (AS APPLICABLE) SHOWN IN THIS APPROVAL MAY NOT MEET CORROSION RESISTANCE REQUIREMENTS FOR COASTAL OR SALT WATER EXPOSURE ZONES. COMPLIANCE WITH THESE CONDITIONS TO BE CHECKED PER FBC 1711.

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

Sealed: 7/17/2026

FL #21557



- 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 W16-69ES

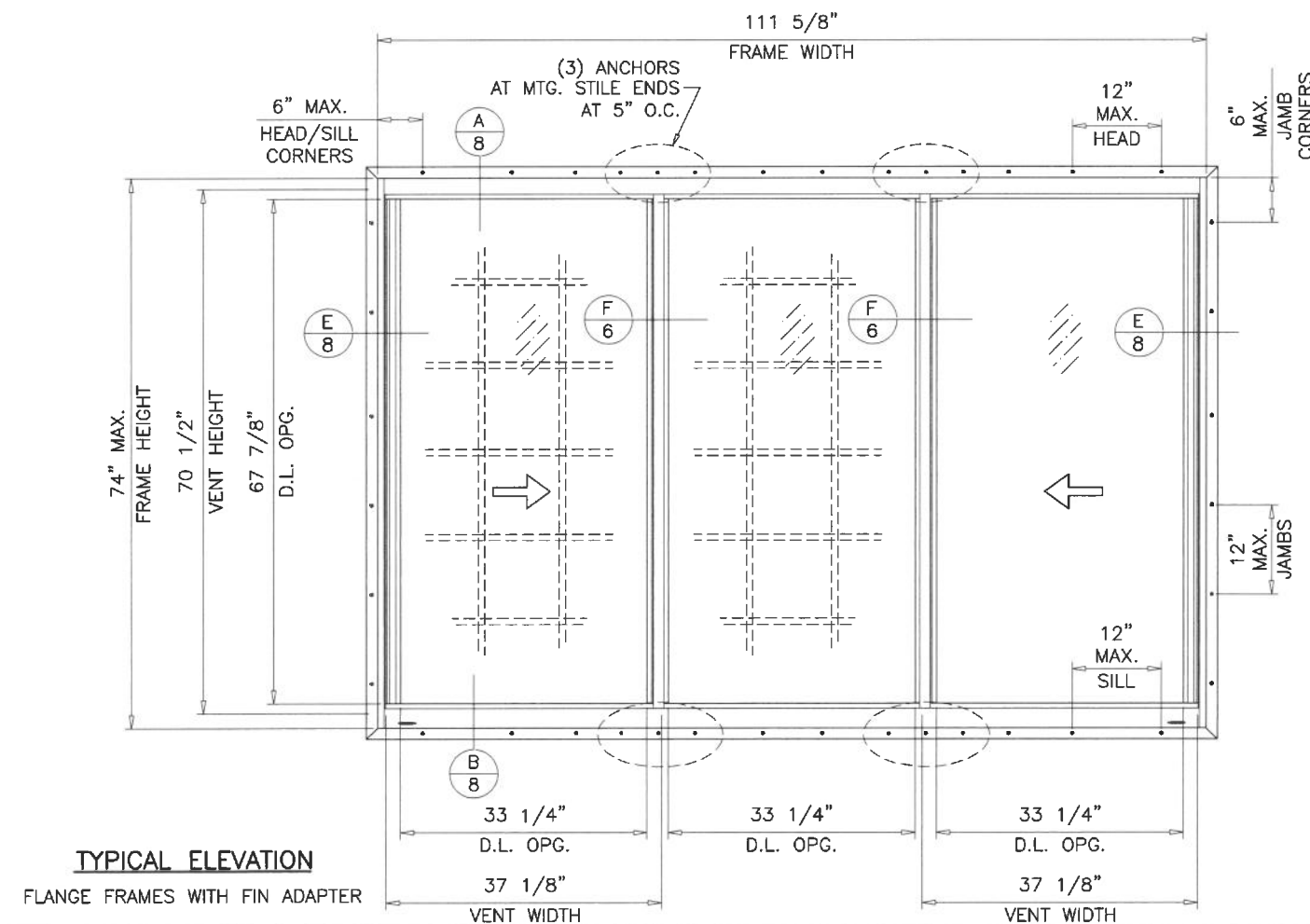
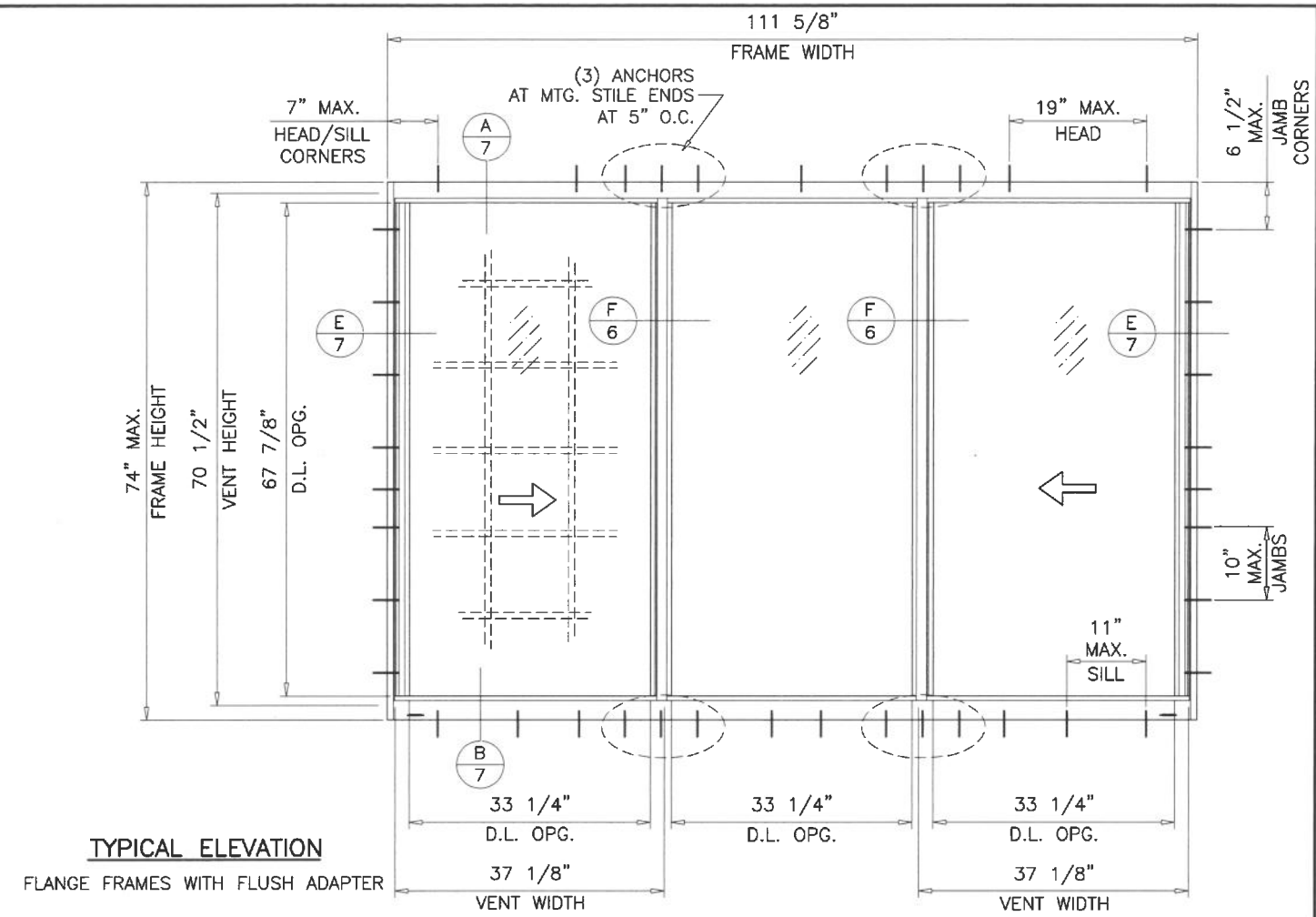
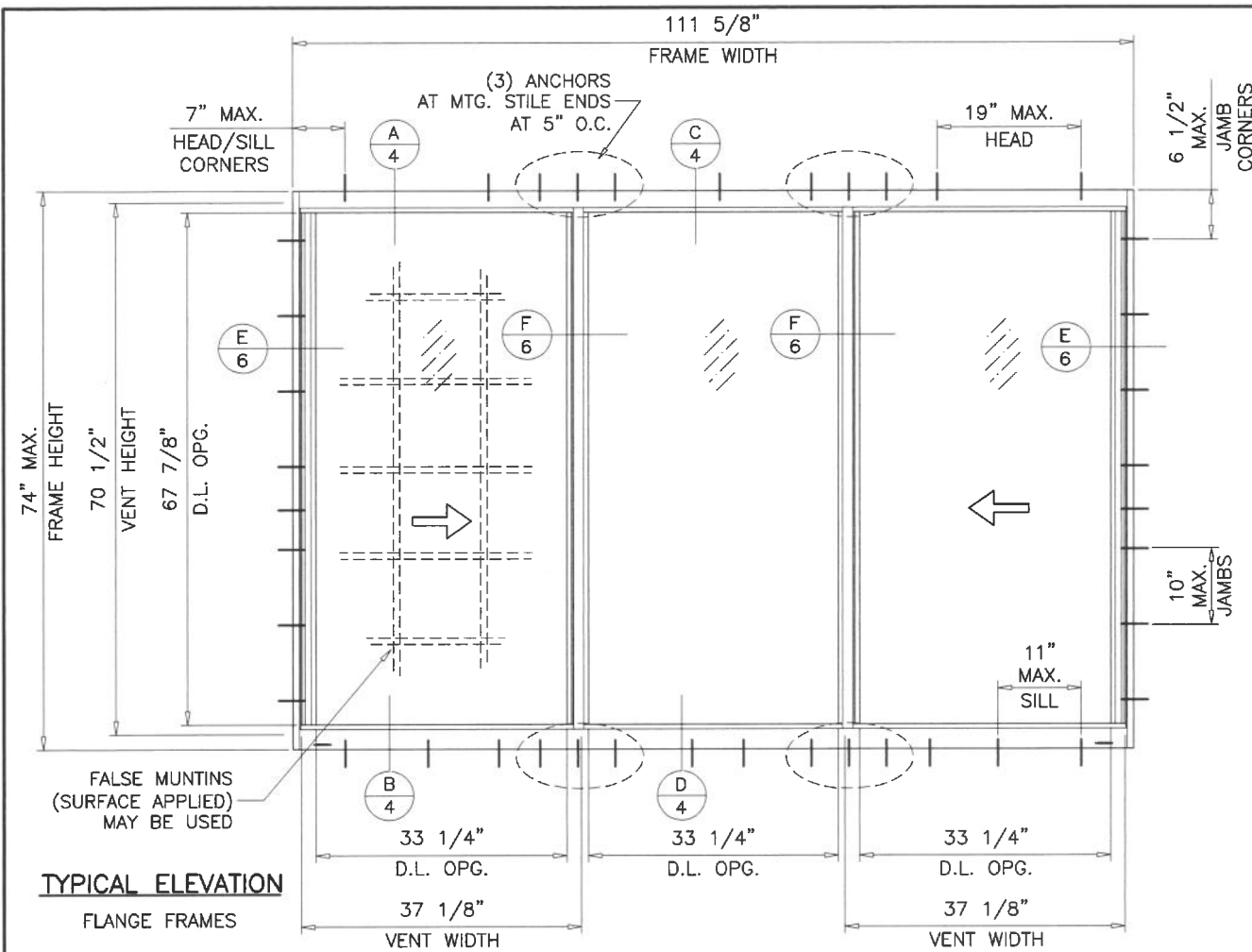
ES-EL200 HORIZONTAL ROLLING ALUM. WDW. (L.M.I.)  
**E.S. WINDOWS, LLC**  
3550 N.W. 49 STREET  
MIAMI, FL. 33142  
TEL. (305) 638-5151 FAX. (305) 638-5158

| revisions: | no | date     | by | description         |
|------------|----|----------|----|---------------------|
|            | C  | 08.05.20 |    | UPDATED TO 2020 FBC |
|            | D  | 09.16.20 |    | GLASS TYPE 4i ADDED |
|            | E  | 07.28.22 |    | GENERAL REVISION    |
|            | F  | 07.07.23 |    | UPDATED TO 2023 FBC |
|            | G  | 07.13.26 |    | UPDATED TO 2026 FBC |

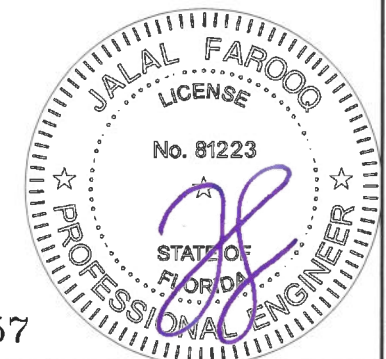
date: 11-13-16  
scale: 1/2"=1'-0"  
dr. by: TARIQ  
chk. by:

drawing no.  
**W16-69**

sheet 1 of 11



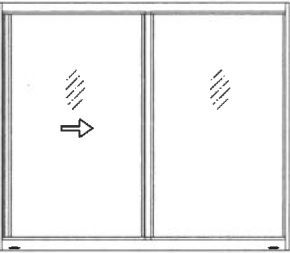
Sealed: 7/17/2026



| DESIGN LOAD CAPACITY - PSF (XO OR OX SIZES) |         |                                               |         |                                               |         |                      |         |                                           |         |
|---------------------------------------------|---------|-----------------------------------------------|---------|-----------------------------------------------|---------|----------------------|---------|-------------------------------------------|---------|
| WINDOW DIMS.                                |         | W/O REINF.                                    |         | WITH REINF.                                   |         |                      |         |                                           |         |
|                                             |         | GLASS TYPES<br>1, 1i, 2, 2i<br>2A, 2Ai, 3, 4i |         | GLASS TYPES<br>1, 1i, 2, 2i<br>2A, 2Ai, 3, 4i |         | GLASS TYPES<br>5, 5i |         | GLASS TYPES<br>1, 1i, 2, 2i<br>2A, 2Ai, 3 |         |
| WIDTH                                       | HEIGHT  | EXT.(+)                                       | INT.(−) | EXT.(+)                                       | INT.(−) | EXT.(+)              | INT.(−) | EXT.(+)                                   | INT.(−) |
| 26−1/2"                                     | 26"     | 65.0                                          | 65.0    | 80.0                                          | 80.0    | 75.0                 | 80.0    | 80.0                                      | 90.0    |
| 37"                                         |         | 65.0                                          | 65.0    | 80.0                                          | 80.0    | 75.0                 | 80.0    | 80.0                                      | 90.0    |
| 53−1/8"                                     |         | 65.0                                          | 65.0    | 80.0                                          | 80.0    | 75.0                 | 80.0    | 80.0                                      | 90.0    |
| 74"                                         |         | 65.0                                          | 65.0    | 80.0                                          | 80.0    | 75.0                 | 80.0    | 80.0                                      | 90.0    |
| 76"                                         |         | −                                             | −       | −                                             | −       | 75.0                 | 80.0    | −                                         | −       |
| 80"                                         |         | −                                             | −       | −                                             | −       | 75.0                 | 80.0    | −                                         | −       |
| 26−1/2"                                     | 38−3/8" | 65.0                                          | 65.0    | 80.0                                          | 80.0    | 75.0                 | 80.0    | 80.0                                      | 90.0    |
| 37"                                         |         | 65.0                                          | 65.0    | 80.0                                          | 80.0    | 75.0                 | 80.0    | 80.0                                      | 90.0    |
| 53−1/8"                                     |         | 65.0                                          | 65.0    | 80.0                                          | 80.0    | 75.0                 | 80.0    | 80.0                                      | 90.0    |
| 74"                                         |         | 65.0                                          | 65.0    | 80.0                                          | 80.0    | 75.0                 | 80.0    | 80.0                                      | 90.0    |
| 76"                                         |         | −                                             | −       | −                                             | −       | 75.0                 | 80.0    | −                                         | −       |
| 80"                                         |         | −                                             | −       | −                                             | −       | 75.0                 | 80.0    | −                                         | −       |
| 26−1/2"                                     | 50−5/8" | 65.0                                          | 65.0    | 80.0                                          | 80.0    | 75.0                 | 80.0    | 80.0                                      | 90.0    |
| 37"                                         |         | 65.0                                          | 65.0    | 80.0                                          | 80.0    | 75.0                 | 80.0    | 80.0                                      | 90.0    |
| 53−1/8"                                     |         | 65.0                                          | 65.0    | 80.0                                          | 80.0    | 75.0                 | 80.0    | 80.0                                      | 90.0    |
| 74"                                         |         | 65.0                                          | 65.0    | 80.0                                          | 80.0    | 75.0                 | 80.0    | 80.0                                      | 90.0    |
| 76"                                         |         | −                                             | −       | −                                             | −       | 75.0                 | 80.0    | −                                         | −       |
| 80"                                         |         | −                                             | −       | −                                             | −       | 75.0                 | 80.0    | −                                         | −       |
| 26−1/2"                                     | 63"     | 65.0                                          | 65.0    | 80.0                                          | 80.0    | 75.0                 | 80.0    | 80.0                                      | 90.0    |
| 37"                                         |         | 65.0                                          | 65.0    | 80.0                                          | 80.0    | 75.0                 | 80.0    | 80.0                                      | 90.0    |
| 53−1/8"                                     |         | 65.0                                          | 65.0    | 80.0                                          | 80.0    | 75.0                 | 80.0    | 80.0                                      | 90.0    |
| 74"                                         |         | 65.0                                          | 65.0    | 80.0                                          | 80.0    | 75.0                 | 80.0    | 80.0                                      | 90.0    |
| 76"                                         |         | −                                             | −       | −                                             | −       | 75.0                 | 80.0    | −                                         | −       |
| 80"                                         |         | −                                             | −       | −                                             | −       | 75.0                 | 80.0    | −                                         | −       |
| 26−1/2"                                     | 74"     | −                                             | −       | −                                             | −       | 75.0                 | 80.0    | −                                         | −       |
| 37"                                         |         | −                                             | −       | −                                             | −       | 75.0                 | 80.0    | −                                         | −       |
| 53−1/8"                                     |         | −                                             | −       | −                                             | −       | 75.0                 | 80.0    | −                                         | −       |
| 74"                                         |         | −                                             | −       | −                                             | −       | 75.0                 | 75.0    | −                                         | −       |

NOTE:  
GLASS CAPACITIES ARE BASED ON  
ASTM E1300-16 (3 SEC. GUSTS)  
AND FLORIDA BUILDING COMMISSION  
DECLARATORY STATEMENT DCA05-DEC-219

| DESIGN LOAD CAPACITY - PSF (XO OR OX SIZES) |        |                                               |         |                                               |         |                      |         |                                           |         |
|---------------------------------------------|--------|-----------------------------------------------|---------|-----------------------------------------------|---------|----------------------|---------|-------------------------------------------|---------|
| WINDOW DIMS.                                |        | W/O REINF.                                    |         | WITH REINF.                                   |         |                      |         |                                           |         |
|                                             |        | GLASS TYPES<br>1, 1i, 2, 2i<br>2A, 2Ai, 3, 4i |         | GLASS TYPES<br>1, 1i, 2, 2i<br>2A, 2Ai, 3, 4i |         | GLASS TYPES<br>5, 5i |         | GLASS TYPES<br>1, 1i, 2, 2i<br>2A, 2Ai, 3 |         |
| WIDTH                                       | HEIGHT | EXT.(+)                                       | INT.(-) | EXT.(+)                                       | INT.(-) | EXT.(+)              | INT.(-) | EXT.(+)                                   | INT.(-) |
| 24"                                         | 24"    | 65.0                                          | 65.0    | 80.0                                          | 80.0    | 75.0                 | 80.0    | 80.0                                      | 90.0    |
| 36"                                         |        | 65.0                                          | 65.0    | 80.0                                          | 80.0    | 75.0                 | 80.0    | 80.0                                      | 90.0    |
| 48"                                         |        | 65.0                                          | 65.0    | 80.0                                          | 80.0    | 75.0                 | 80.0    | 80.0                                      | 90.0    |
| 60"                                         |        | 65.0                                          | 65.0    | 80.0                                          | 80.0    | 75.0                 | 80.0    | 80.0                                      | 90.0    |
| 72"                                         |        | 65.0                                          | 65.0    | 80.0                                          | 80.0    | 75.0                 | 80.0    | 80.0                                      | 90.0    |
| 76"                                         |        | -                                             | -       | -                                             | -       | 75.0                 | 80.0    | -                                         | -       |
| 80"                                         |        | -                                             | -       | -                                             | -       | 75.0                 | 80.0    | -                                         | -       |
| 24"                                         |        | 65.0                                          | 65.0    | 80.0                                          | 80.0    | 75.0                 | 80.0    | 80.0                                      | 90.0    |
| 36"                                         | 36"    | 65.0                                          | 65.0    | 80.0                                          | 80.0    | 75.0                 | 80.0    | 80.0                                      | 90.0    |
| 48"                                         |        | 65.0                                          | 65.0    | 80.0                                          | 80.0    | 75.0                 | 80.0    | 80.0                                      | 90.0    |
| 60"                                         |        | 65.0                                          | 65.0    | 80.0                                          | 80.0    | 75.0                 | 80.0    | 80.0                                      | 90.0    |
| 72"                                         |        | 65.0                                          | 65.0    | 80.0                                          | 80.0    | 75.0                 | 80.0    | 80.0                                      | 90.0    |
| 76"                                         |        | -                                             | -       | -                                             | -       | 75.0                 | 80.0    | -                                         | -       |
| 80"                                         |        | -                                             | -       | -                                             | -       | 75.0                 | 80.0    | -                                         | -       |
| 24"                                         |        | 65.0                                          | 65.0    | 80.0                                          | 80.0    | 75.0                 | 80.0    | 80.0                                      | 90.0    |
| 36"                                         |        | 65.0                                          | 65.0    | 80.0                                          | 80.0    | 75.0                 | 80.0    | 80.0                                      | 90.0    |
| 48"                                         | 48"    | 65.0                                          | 65.0    | 80.0                                          | 80.0    | 75.0                 | 80.0    | 80.0                                      | 90.0    |
| 60"                                         |        | 65.0                                          | 65.0    | 80.0                                          | 80.0    | 75.0                 | 80.0    | 80.0                                      | 90.0    |
| 72"                                         |        | 65.0                                          | 65.0    | 80.0                                          | 80.0    | 75.0                 | 80.0    | 80.0                                      | 90.0    |
| 76"                                         |        | -                                             | -       | -                                             | -       | 75.0                 | 80.0    | -                                         | -       |
| 80"                                         |        | -                                             | -       | -                                             | -       | 75.0                 | 80.0    | -                                         | -       |
| 24"                                         |        | 65.0                                          | 65.0    | 80.0                                          | 80.0    | 75.0                 | 80.0    | 80.0                                      | 90.0    |
| 36"                                         |        | 65.0                                          | 65.0    | 80.0                                          | 80.0    | 75.0                 | 80.0    | 80.0                                      | 90.0    |
| 48"                                         |        | 65.0                                          | 65.0    | 80.0                                          | 80.0    | 75.0                 | 80.0    | 80.0                                      | 90.0    |
| 60"                                         | 60"    | 65.0                                          | 65.0    | 80.0                                          | 80.0    | 75.0                 | 80.0    | 80.0                                      | 90.0    |
| 72"                                         |        | 65.0                                          | 65.0    | 80.0                                          | 80.0    | 75.0                 | 80.0    | 80.0                                      | 90.0    |
| 76"                                         |        | -                                             | -       | -                                             | -       | 75.0                 | 80.0    | -                                         | -       |
| 80"                                         |        | -                                             | -       | -                                             | -       | 75.0                 | 80.0    | -                                         | -       |
| 24"                                         |        | 65.0                                          | 65.0    | 80.0                                          | 80.0    | 75.0                 | 80.0    | 80.0                                      | 90.0    |
| 36"                                         |        | 65.0                                          | 65.0    | 80.0                                          | 80.0    | 75.0                 | 80.0    | 80.0                                      | 90.0    |
| 48"                                         |        | 65.0                                          | 65.0    | 80.0                                          | 80.0    | 75.0                 | 80.0    | 80.0                                      | 90.0    |
| 60"                                         |        | 65.0                                          | 65.0    | 80.0                                          | 80.0    | 75.0                 | 80.0    | 80.0                                      | 90.0    |
| 72"                                         | 72"    | 65.0                                          | 65.0    | 80.0                                          | 80.0    | 75.0                 | 80.0    | 80.0                                      | 90.0    |
| 76"                                         |        | -                                             | -       | -                                             | -       | 75.0                 | 80.0    | -                                         | -       |
| 80"                                         |        | -                                             | -       | -                                             | -       | 75.0                 | 80.0    | -                                         | -       |
| 24"                                         |        | -                                             | -       | -                                             | -       | 75.0                 | 80.0    | -                                         | -       |
| 36"                                         |        | -                                             | -       | -                                             | -       | 75.0                 | 80.0    | -                                         | -       |
| 48"                                         |        | -                                             | -       | -                                             | -       | 75.0                 | 80.0    | -                                         | -       |
| 60"                                         |        | -                                             | -       | -                                             | -       | 75.0                 | 80.0    | -                                         | -       |
| 72"                                         |        | -                                             | -       | -                                             | -       | 75.0                 | 79.2    | -                                         | -       |
| 76"                                         |        | -                                             | -       | -                                             | -       | 75.0                 | 76.5    | -                                         | -       |



'XO OR OX'

OPERATING VENTS CAN BE 1/4 TO 1/3 OF WINDOW WIDTH  
MAX. D.L. OPG. FOR FIXED LITE NOT TO EXCEED  
12.7 SQ. FT. FOR GLASS TYPES 1, 1i, 2, 2i, 2A, 2Ai, 3 & 4i  
15.7 SQ. FT. FOR GLASS TYPES 5 & 5i

FOR ALTERNATE SIZE UNITS MAX. FRAME AREA OF WINDOW  
NOT TO EXCEED TESTED FRAME AREA OF  
31.5 SQ. FT. FOR GLASS TYPES 1, 1i, 2, 2i, 2A, 2Ai, 3 & 4i  
38.0 SQ. FT. FOR GLASS TYPES 5 & 5i



Sealed: 7/17/2026

FL #21557

**af c**

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100 FAX. (305) 262-6978  
(C.A.N. 3538)

ES-EL200 HORIZONTAL ROLLING ALUM. WDW. (L.M.I.)

**E.S. WINDOWS, LLC**  
3550 N.W. 49 STREET  
MIAMI, FL. 33142  
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:  
no date by description

date: 11-13-16  
scale: 1/2"=1'-0"  
dr. by: TARIQ  
chk. by:

drawing no.  
**W16-69**  
sheet 2.1 of 11

| DESIGN LOAD CAPACITY – PSF (XOX SIZES) |         |                                               |         |                                               |         |                      |         |                                           |         |
|----------------------------------------|---------|-----------------------------------------------|---------|-----------------------------------------------|---------|----------------------|---------|-------------------------------------------|---------|
| WINDOW DIMS.                           |         | W/O REINF.                                    |         | WITH REINF.                                   |         |                      |         |                                           |         |
|                                        |         | GLASS TYPES<br>1, 1i, 2, 2i<br>2A, 2Ai, 3, 4i |         | GLASS TYPES<br>1, 1i, 2, 2i<br>2A, 2Ai, 3, 4i |         | GLASS TYPES<br>5, 5i |         | GLASS TYPES<br>1, 1i, 2, 2i<br>2A, 2Ai, 3 |         |
|                                        |         | EXT.(+)                                       | INT.(–) | EXT.(+)                                       | INT.(–) | EXT.(+)              | INT.(–) | EXT.(+)                                   | INT.(–) |
| 74"                                    | 26"     | 65.0                                          | 65.0    | 80.0                                          | 80.0    | 75.0                 | 80.0    | 80.0                                      | 90.0    |
| 106–1/4"                               |         | 65.0                                          | 65.0    | 80.0                                          | 80.0    | 75.0                 | 80.0    | 80.0                                      | 90.0    |
| 111"                                   |         | 65.0                                          | 65.0    | 80.0                                          | 80.0    | 75.0                 | 80.0    | 80.0                                      | 90.0    |
| 114"                                   |         | –                                             | –       | –                                             | –       | 75.0                 | 80.0    | –                                         | –       |
| 118"                                   |         | –                                             | –       | –                                             | –       | 75.0                 | 80.0    | –                                         | –       |
| 74"                                    | 38–3/8" | 65.0                                          | 65.0    | 80.0                                          | 80.0    | 75.0                 | 80.0    | 80.0                                      | 90.0    |
| 106–1/4"                               |         | 65.0                                          | 65.0    | 80.0                                          | 80.0    | 75.0                 | 80.0    | 80.0                                      | 90.0    |
| 111"                                   |         | 65.0                                          | 65.0    | 80.0                                          | 80.0    | 75.0                 | 80.0    | 80.0                                      | 90.0    |
| 114"                                   |         | –                                             | –       | –                                             | –       | 75.0                 | 80.0    | –                                         | –       |
| 118"                                   |         | –                                             | –       | –                                             | –       | 75.0                 | 80.0    | –                                         | –       |
| 74"                                    | 50–5/8" | 65.0                                          | 65.0    | 80.0                                          | 80.0    | 75.0                 | 80.0    | 80.0                                      | 90.0    |
| 106–1/4"                               |         | 65.0                                          | 65.0    | 80.0                                          | 80.0    | 75.0                 | 80.0    | 80.0                                      | 90.0    |
| 111"                                   |         | 65.0                                          | 65.0    | 80.0                                          | 80.0    | 75.0                 | 80.0    | 80.0                                      | 90.0    |
| 114"                                   |         | –                                             | –       | –                                             | –       | 75.0                 | 80.0    | –                                         | –       |
| 118"                                   |         | –                                             | –       | –                                             | –       | 75.0                 | 80.0    | –                                         | –       |
| 74"                                    | 63"     | 65.0                                          | 65.0    | 80.0                                          | 80.0    | 75.0                 | 80.0    | 80.0                                      | 90.0    |
| 106–1/4"                               |         | 65.0                                          | 65.0    | 80.0                                          | 80.0    | 75.0                 | 80.0    | 80.0                                      | 90.0    |
| 111"                                   |         | 65.0                                          | 65.0    | 80.0                                          | 80.0    | 75.0                 | 80.0    | 80.0                                      | 90.0    |
| 114"                                   |         | –                                             | –       | –                                             | –       | 75.0                 | 80.0    | –                                         | –       |
| 118"                                   |         | –                                             | –       | –                                             | –       | 75.0                 | 80.0    | –                                         | –       |
| 74"                                    | 74"     | –                                             | –       | –                                             | –       | 75.0                 | 80.0    | –                                         | –       |
| 106–1/4"                               |         | –                                             | –       | –                                             | –       | 75.0                 | 77.3    | –                                         | –       |
| 111"                                   |         | –                                             | –       | –                                             | –       | 75.0                 | 75.0    | –                                         | –       |

| DESIGN LOAD CAPACITY – PSF (XOX SIZES) |     |                                               |         |                                               |         |                      |         |                                           |         |
|----------------------------------------|-----|-----------------------------------------------|---------|-----------------------------------------------|---------|----------------------|---------|-------------------------------------------|---------|
| WINDOW DIMS.                           |     | W/O REINF.                                    |         | WITH REINF.                                   |         |                      |         |                                           |         |
|                                        |     | GLASS TYPES<br>1, 1i, 2, 2i<br>2A, 2Ai, 3, 4i |         | GLASS TYPES<br>1, 1i, 2, 2i<br>2A, 2Ai, 3, 4i |         | GLASS TYPES<br>5, 5i |         | GLASS TYPES<br>1, 1i, 2, 2i<br>2A, 2Ai, 3 |         |
|                                        |     | EXT.(+)                                       | INT.(–) | EXT.(+)                                       | INT.(–) | EXT.(+)              | INT.(–) | EXT.(+)                                   | INT.(–) |
| 72"                                    | 24" | 65.0                                          | 65.0    | 80.0                                          | 80.0    | 75.0                 | 80.0    | 80.0                                      | 90.0    |
| 84"                                    |     | 65.0                                          | 65.0    | 80.0                                          | 80.0    | 75.0                 | 80.0    | 80.0                                      | 90.0    |
| 96"                                    |     | 65.0                                          | 65.0    | 80.0                                          | 80.0    | 75.0                 | 80.0    | 80.0                                      | 90.0    |
| 108"                                   |     | 65.0                                          | 65.0    | 80.0                                          | 80.0    | 75.0                 | 80.0    | 80.0                                      | 90.0    |
| 120"                                   |     | –                                             | –       | –                                             | –       | 75.0                 | 80.0    | –                                         | –       |
| 72"                                    | 36" | 65.0                                          | 65.0    | 80.0                                          | 80.0    | 75.0                 | 80.0    | 80.0                                      | 90.0    |
| 84"                                    |     | 65.0                                          | 65.0    | 80.0                                          | 80.0    | 75.0                 | 80.0    | 80.0                                      | 90.0    |
| 96"                                    |     | 65.0                                          | 65.0    | 80.0                                          | 80.0    | 75.0                 | 80.0    | 80.0                                      | 90.0    |
| 108"                                   |     | 65.0                                          | 65.0    | 80.0                                          | 80.0    | 75.0                 | 80.0    | 80.0                                      | 90.0    |
| 120"                                   |     | –                                             | –       | –                                             | –       | 75.0                 | 80.0    | –                                         | –       |
| 72"                                    | 48" | 65.0                                          | 65.0    | 80.0                                          | 80.0    | 75.0                 | 80.0    | 80.0                                      | 90.0    |
| 84"                                    |     | 65.0                                          | 65.0    | 80.0                                          | 80.0    | 75.0                 | 80.0    | 80.0                                      | 90.0    |
| 96"                                    |     | 65.0                                          | 65.0    | 80.0                                          | 80.0    | 75.0                 | 80.0    | 80.0                                      | 90.0    |
| 108"                                   |     | 65.0                                          | 65.0    | 80.0                                          | 80.0    | 75.0                 | 80.0    | 80.0                                      | 90.0    |
| 120"                                   |     | –                                             | –       | –                                             | –       | 75.0                 | 80.0    | –                                         | –       |
| 72"                                    | 60" | 65.0                                          | 65.0    | 80.0                                          | 80.0    | 75.0                 | 80.0    | 80.0                                      | 90.0    |
| 84"                                    |     | 65.0                                          | 65.0    | 80.0                                          | 80.0    | 75.0                 | 80.0    | 80.0                                      | 90.0    |
| 96"                                    |     | 65.0                                          | 65.0    | 80.0                                          | 80.0    | 75.0                 | 80.0    | 80.0                                      | 90.0    |
| 108"                                   |     | 65.0                                          | 65.0    | 80.0                                          | 80.0    | 75.0                 | 80.0    | 80.0                                      | 90.0    |
| 120"                                   |     | –                                             | –       | –                                             | –       | 75.0                 | 80.0    | –                                         | –       |
| 72"                                    | 72" | –                                             | –       | –                                             | –       | 75.0                 | 80.0    | –                                         | –       |
| 84"                                    |     | –                                             | –       | –                                             | –       | 75.0                 | 80.0    | –                                         | –       |
| 96"                                    |     | –                                             | –       | –                                             | –       | 75.0                 | 80.0    | –                                         | –       |
| 108"                                   |     | –                                             | –       | –                                             | –       | 75.0                 | 79.2    | –                                         | –       |



'XOX'

OPERATING VENTS CAN BE 1/4 TO 1/3 OF WINDOW WIDTH  
MAX. D.L. OPG. FOR FIXED LITE NOT TO EXCEED  
12.7 SQ. FT. FOR GLASS TYPES 1, 1i, 2, 2i, 2A, 2Ai, 3 & 4i  
15.7 SQ. FT. FOR GLASS TYPES 5 & 5i  
  
FOR ALTERNATE SIZE UNITS MAX. FRAME AREA OF WINDOW  
NOT TO EXCEED TESTED FRAME AREA OF  
47.4 SQ. FT. FOR GLASS TYPES 1, 1i, 2, 2i, 2, 2Ai, 3 & 4i  
57.3 SQ. FT. FOR GLASS TYPES 5 & 5i

NOTE:  
GLASS CAPACITIES ARE BASED ON  
ASTM E1300–16 (3 SEC. GUSTS)  
AND FLORIDA BUILDING COMMISSION  
DECLARATORY STATEMENT DCA05–DEC–219

FL #21557



afcc

AL-FAROOQ CORPORATION

ENGINEERS & PRODUCT DEVELOPMENT

9360 SUNSET DRIVE, SUITE 220

MIAMI, FLORIDA 33173

TEL. (305) 264-8100

FAX. (305) 262-6978

COMP–ANL\W16–69ES

ES–EL200 HORIZONTAL ROLLING ALUM. WDW. (L.M.I.)

E.S. WINDOWS, LLC

3550 N.W. 49 STREET

MIAMI, FL. 33142

TEL. (305) 638–5151

FAX. (305) 638–5158

revisions:

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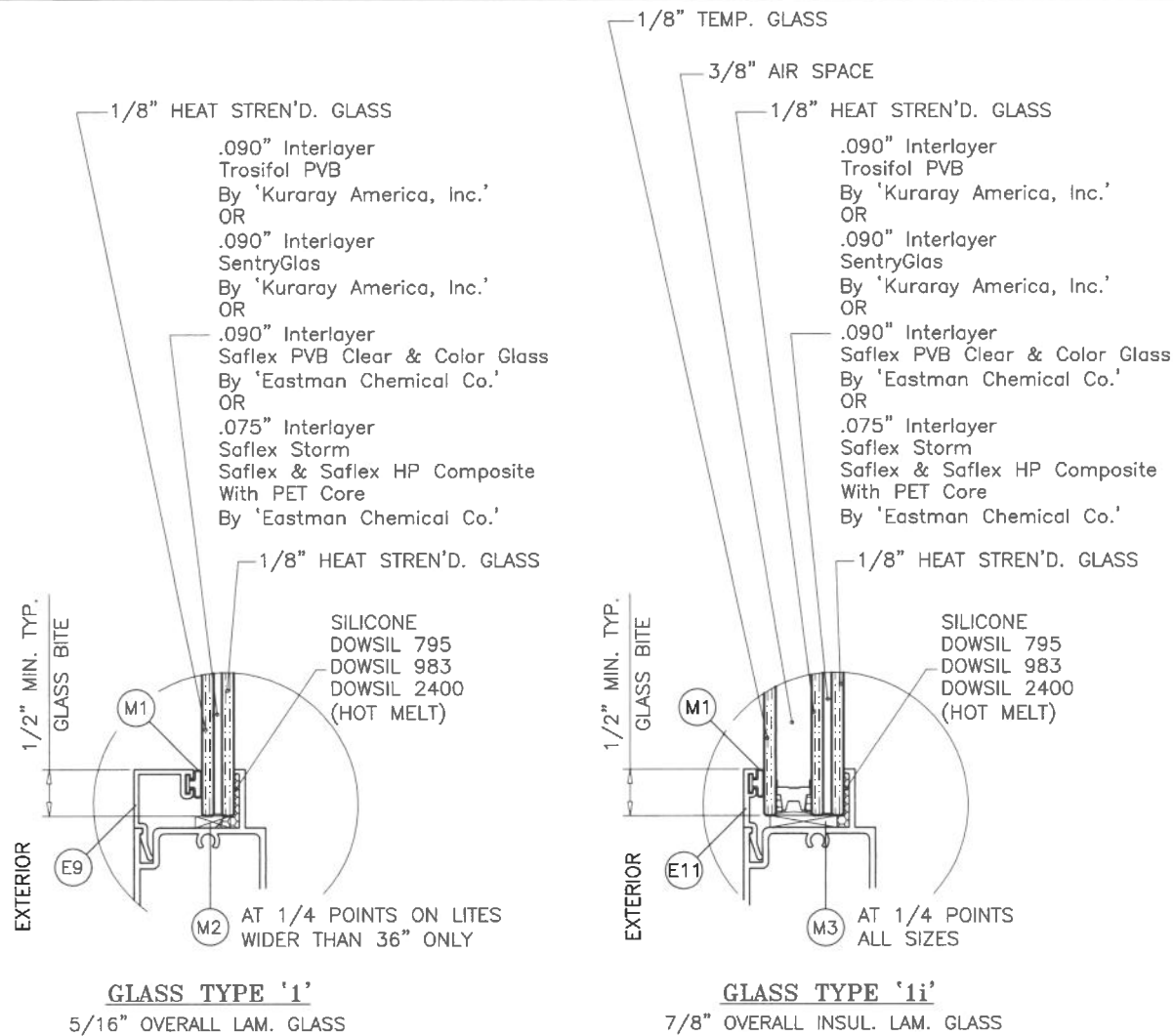
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chk. by:

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W16–69

sheet 2.2 of 11



# **GLAZING OPTIONS**

**5/16" & 3/8" AIR SPACE CONSISTING OF:**  
**SPACER:**  
 'HELIMA' LOW PROFILE ALUMINUM SPACER  
 BY 'LINGERMANN GMBH'  
 AROUND THE PERIMETER OF THE GLASS.  
**PERIMETER SEALANT:**  
 SILICONE  
 DOWSIL 791  
 GE 2000

Sealed: 7/17/2026



FL #21557

**AL-FAROOQ CORPORATION**  
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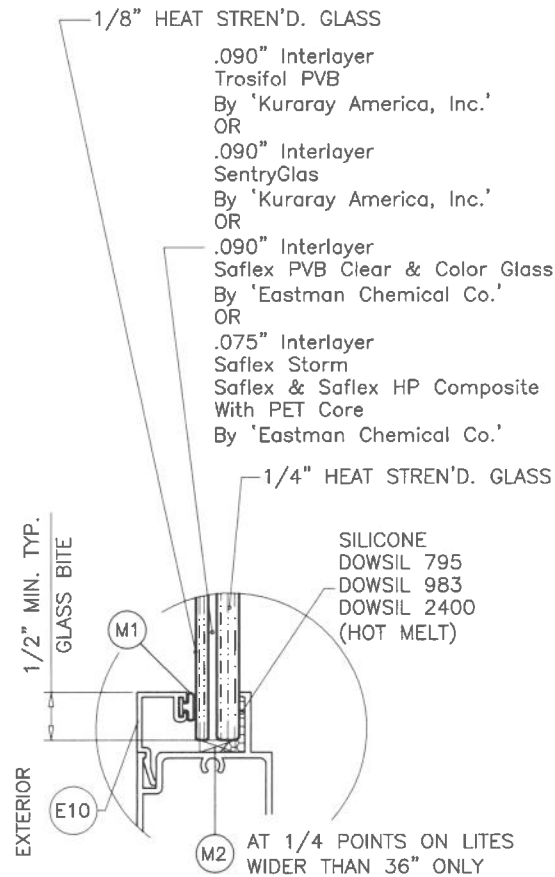
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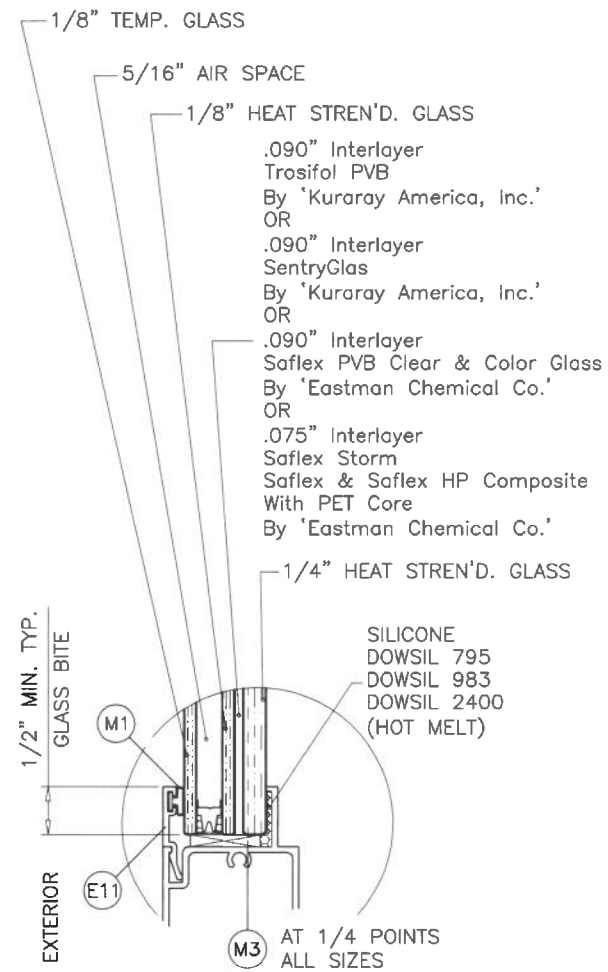
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**W16-69**

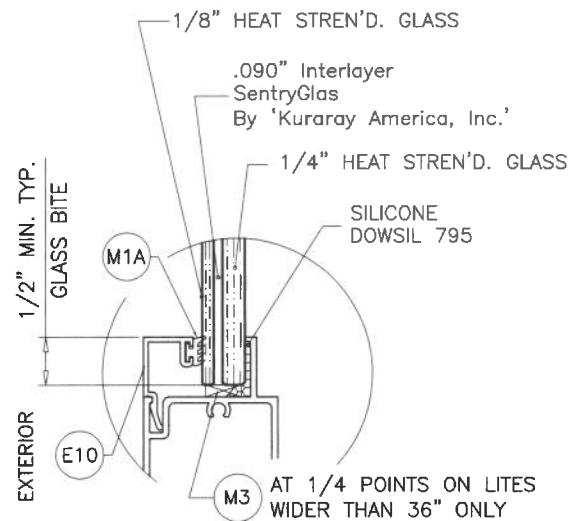
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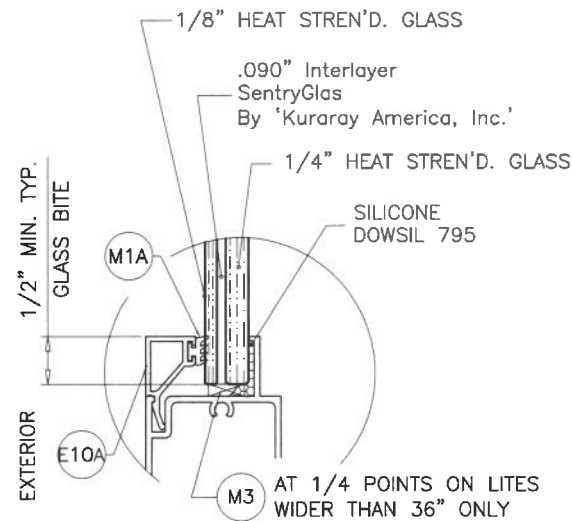
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7/16" OVERALL LAM. GLASS



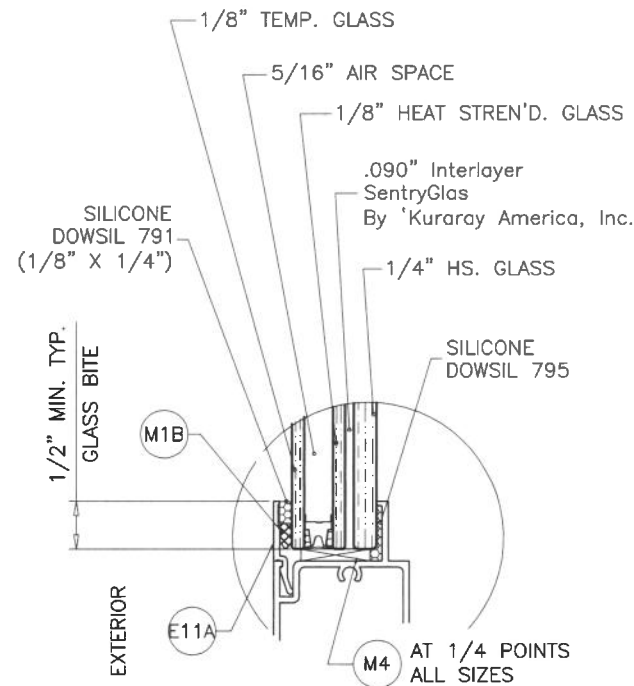
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**GLASS TYPE '2A'**  
7/16" OVERALL LAM. GLASS

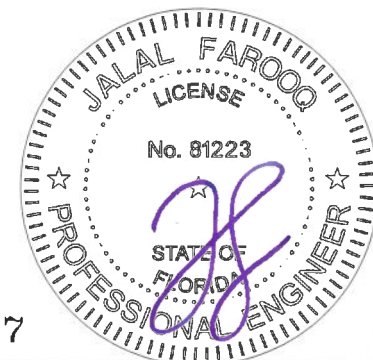


**GLASS TYPE '2Ai'**  
7/8" OVERALL INSUL. LAM. GLASS



**GLASS TYPE '2Ai'**  
7/8" OVERALL INSUL. LAM. GLASS

**5/16" & 3/8" AIR SPACE CONSISTING OF:**  
**SPACER:**  
'HELIMA' LOW PROFILE ALUMINUM SPACER  
BY 'LINGERMANN GMBH'  
AROUND THE PERIMETER OF THE GLASS.  
**PERIMETER SEALANT:**  
SILICONE  
DOWSIL 791  
GE 2000



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FL #21557

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COMP-ANL\W16-69ES

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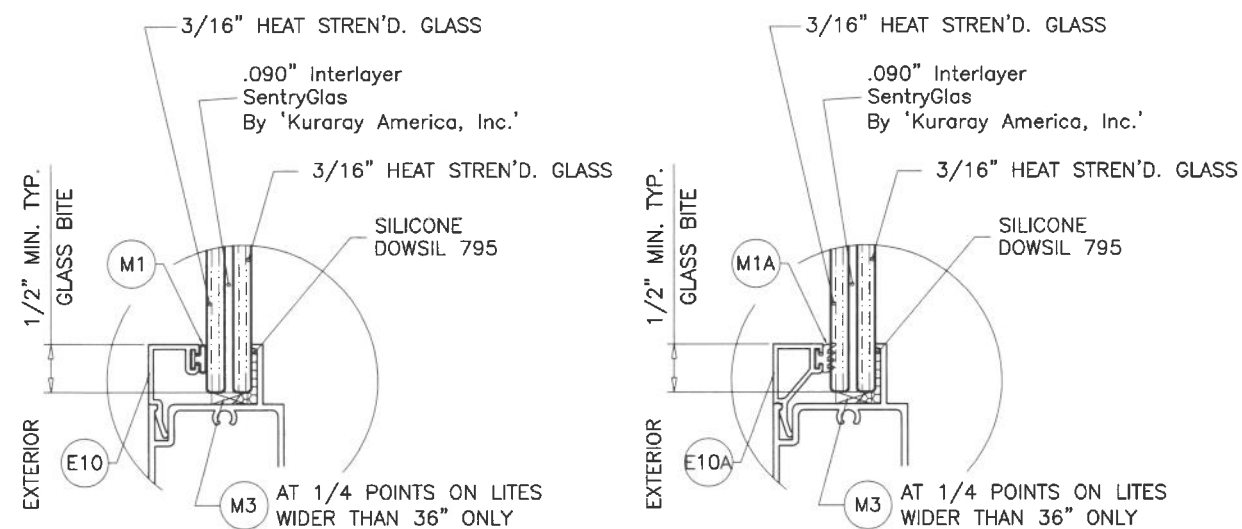
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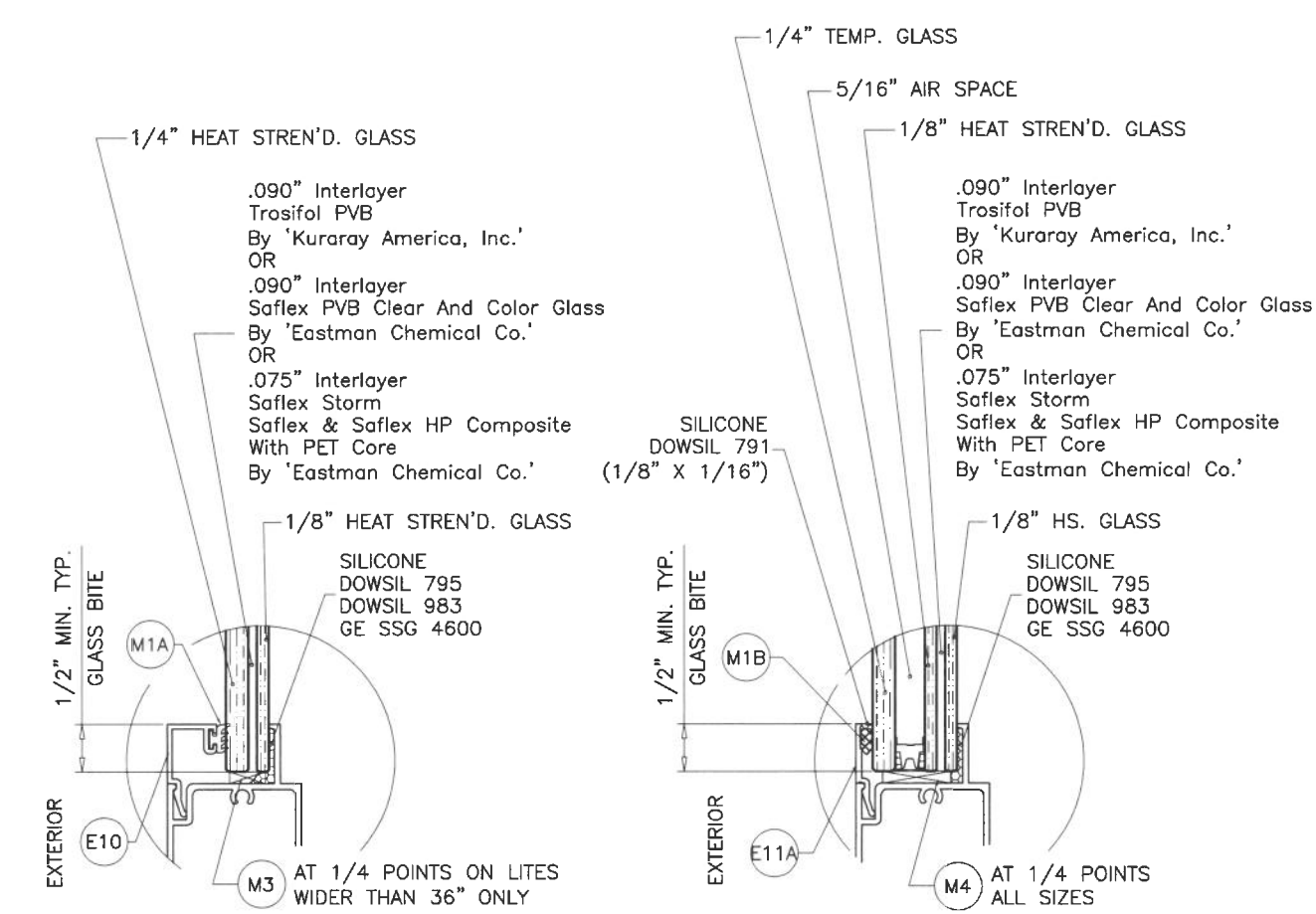
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sheet **3.1** of **11**

**GLAZING OPTIONS**

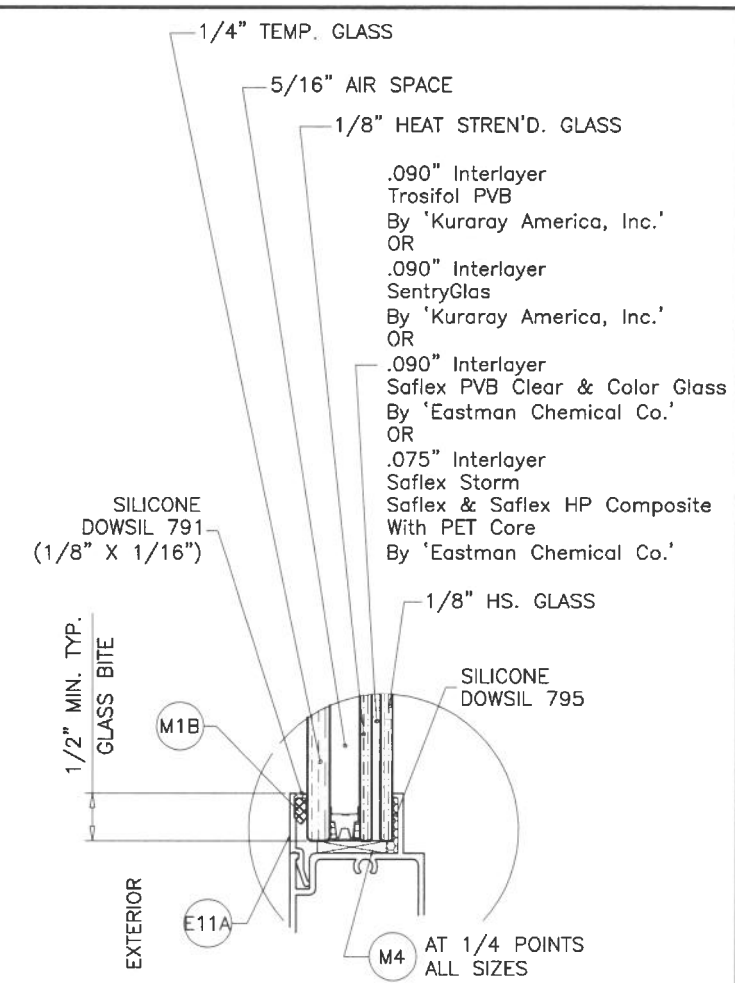


**GLASS TYPE '3'**  
7/16" OVERALL LAM. GLASS



**GLASS TYPE '5'**  
7/16" OVERALL LAM. GLASS

**GLASS TYPE '5i'**  
7/8" OVERALL INSUL. LAM. GLASS



**GLASS TYPE '4i'**  
7/8" OVERALL INSUL. LAM. GLASS

**5/16" AIR SPACE CONSISTING OF:**  
SPACER:  
'HELIMA' LOW PROFILE ALUMINUM SPACER  
BY 'LINGERMANN GMBH'  
AROUND THE PERIMETER OF THE GLASS.  
**PERIMETER SEALANT:**  
SILICONE  
DOWSIL 791  
GE 2000



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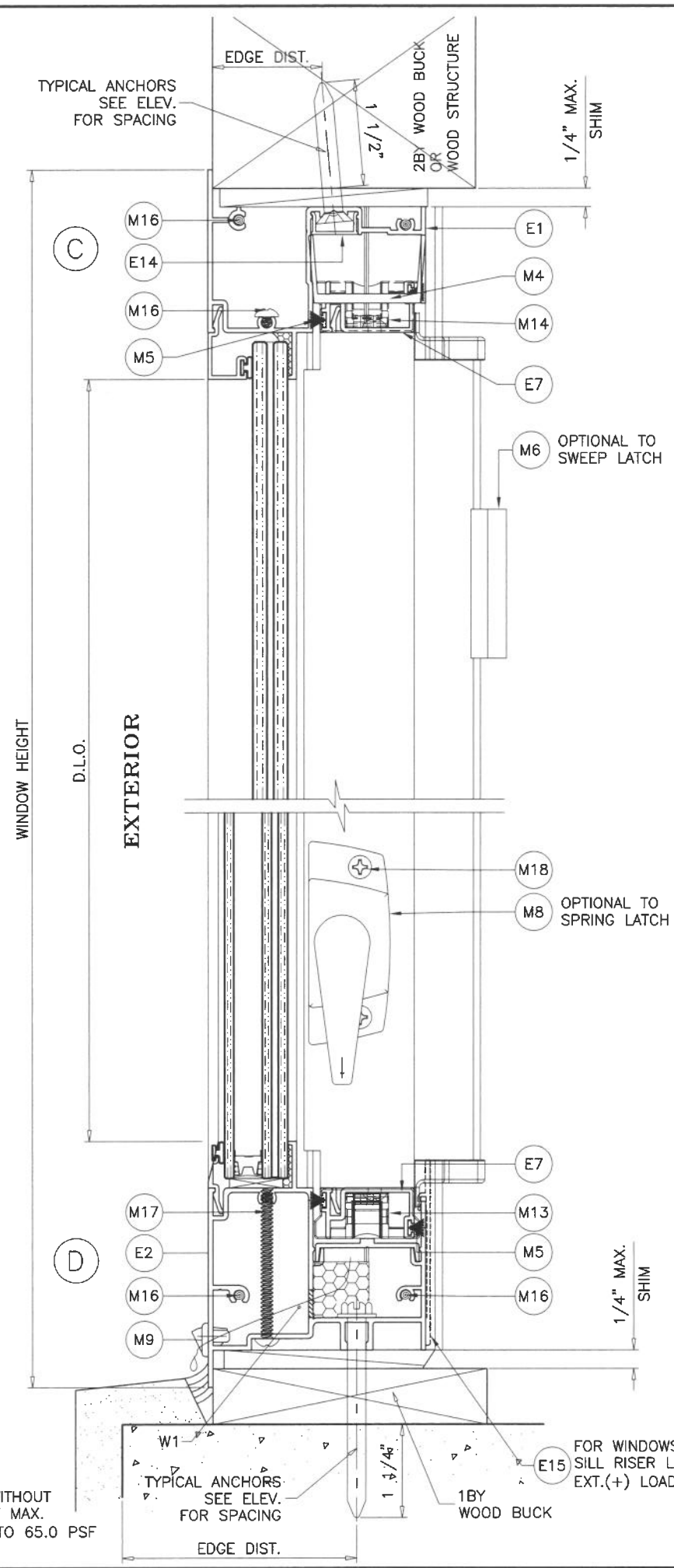
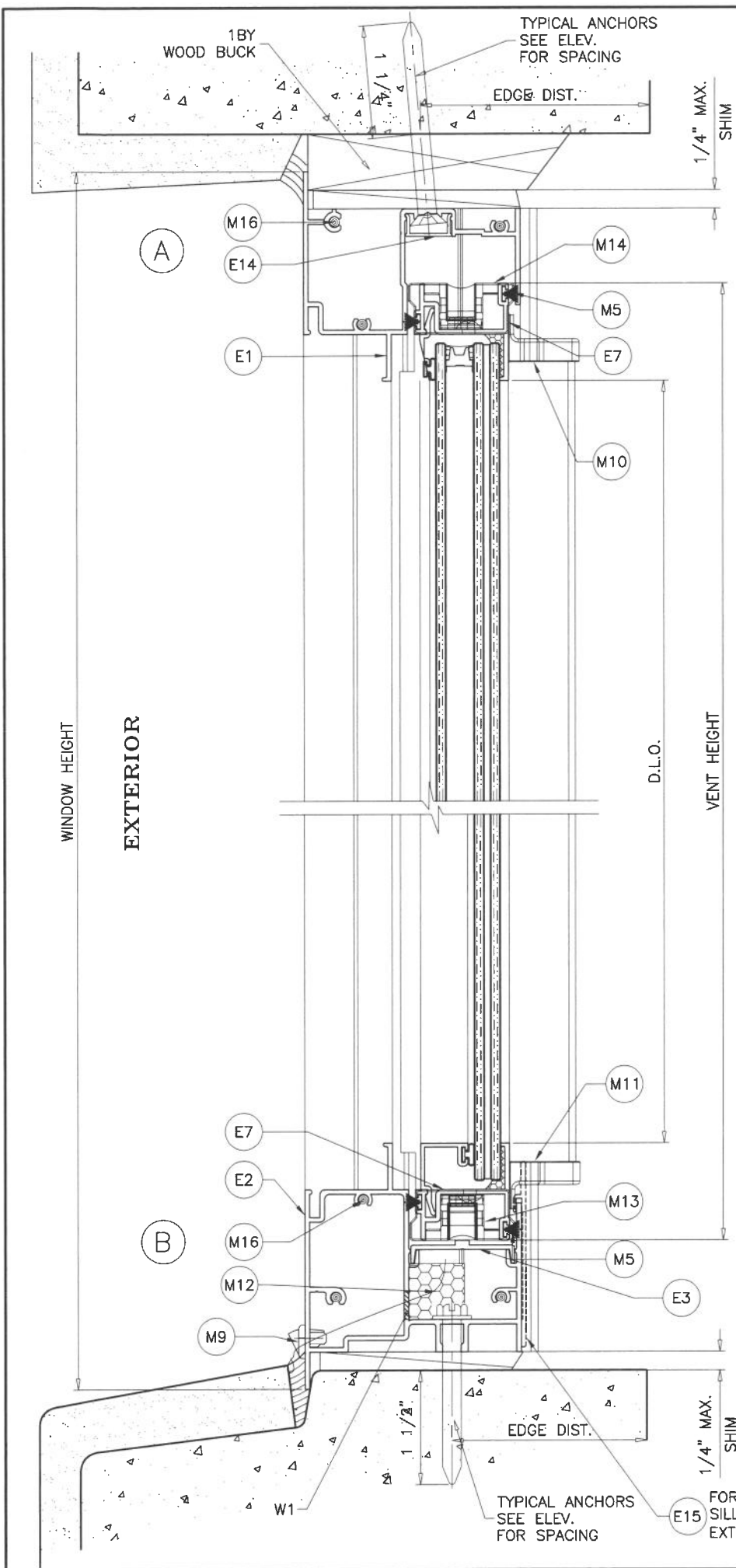
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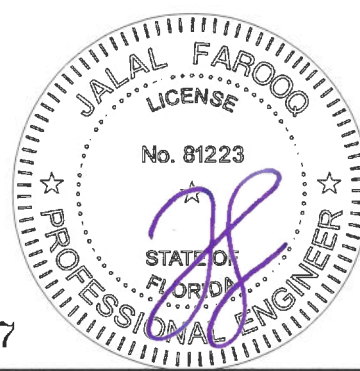
sheet **3.2** of 11



**WEEPHOLES:**

W1 = 1-1/2" X 5/16" WEEPHOLES AT 5-1/2" FROM EACH END

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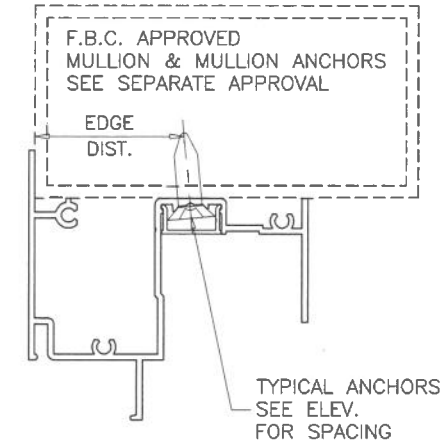
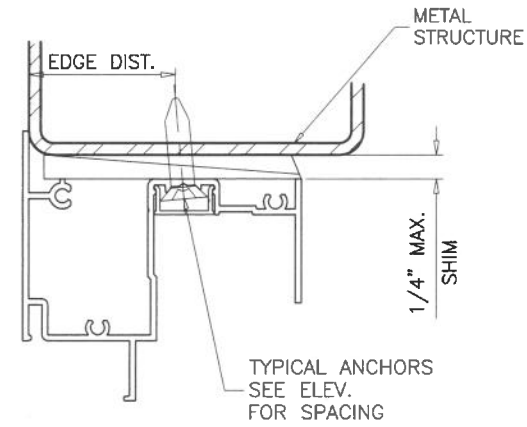
sheet 4 of 11

WOOD BUCKS AND METAL STRUCTURE NOT BY E.S. 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'** (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  
1-1/2" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)  
1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)  
**1/4" DIA. TEKS OR SELF DRILLING SCREWS** (GRADE 5 CRS)  
INTO F.B.C. APPROVED MULLIONS  
OR  
INTO METAL STRUCTURES (HEAD/SILL/JAMBS)  
(3) THREADS MIN. PENETRATION BEYOND SUBSTRATE  
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 MASONRY = 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.



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FL #21557

**af c**  
**AL-FAROOQ CORPORATION**  
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C.O.A.#. 3538

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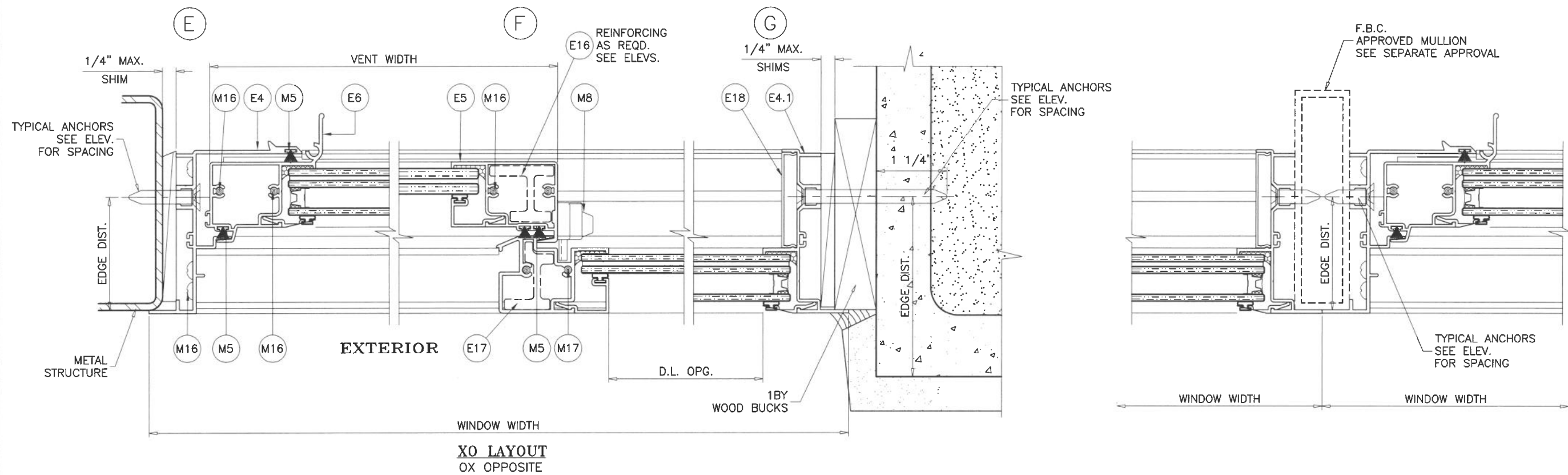
ES-EL200 HORIZONTAL ROLLING ALUM. WDW. (L.M.I.)

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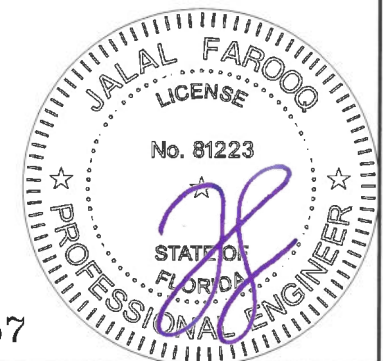
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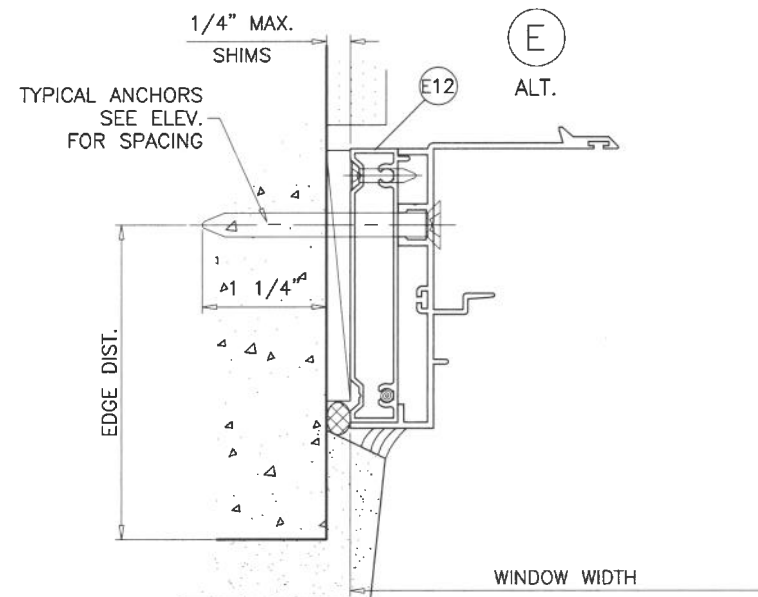
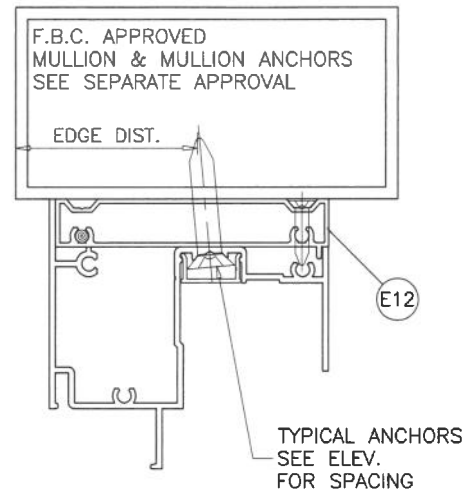
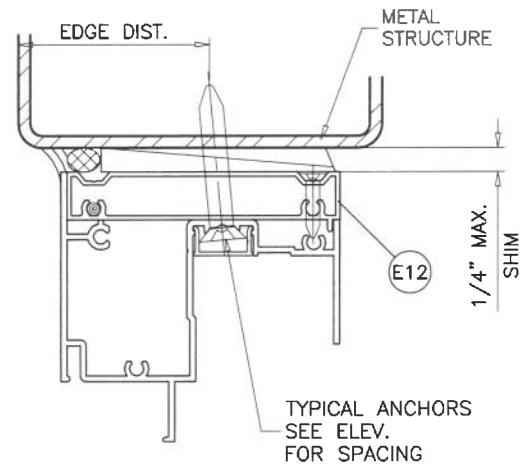
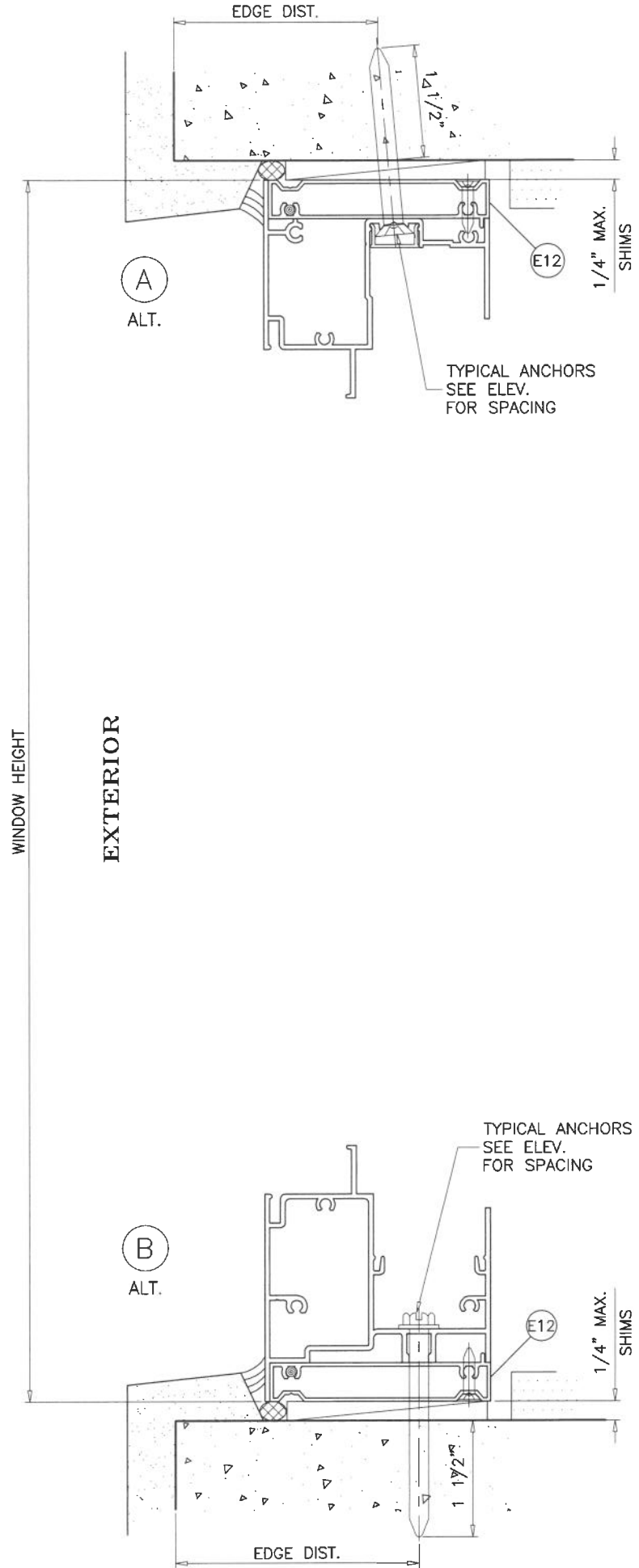
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| sheet 5 of 11 |  |



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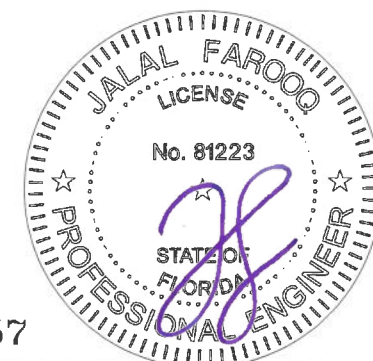




**INSTALLATION DETAILS WITH FLUSH FRAME ADAPTER**  
SEE SHEETS 4 & 6 FOR WINDOW DETAILS

Sealed: 7/17/2026

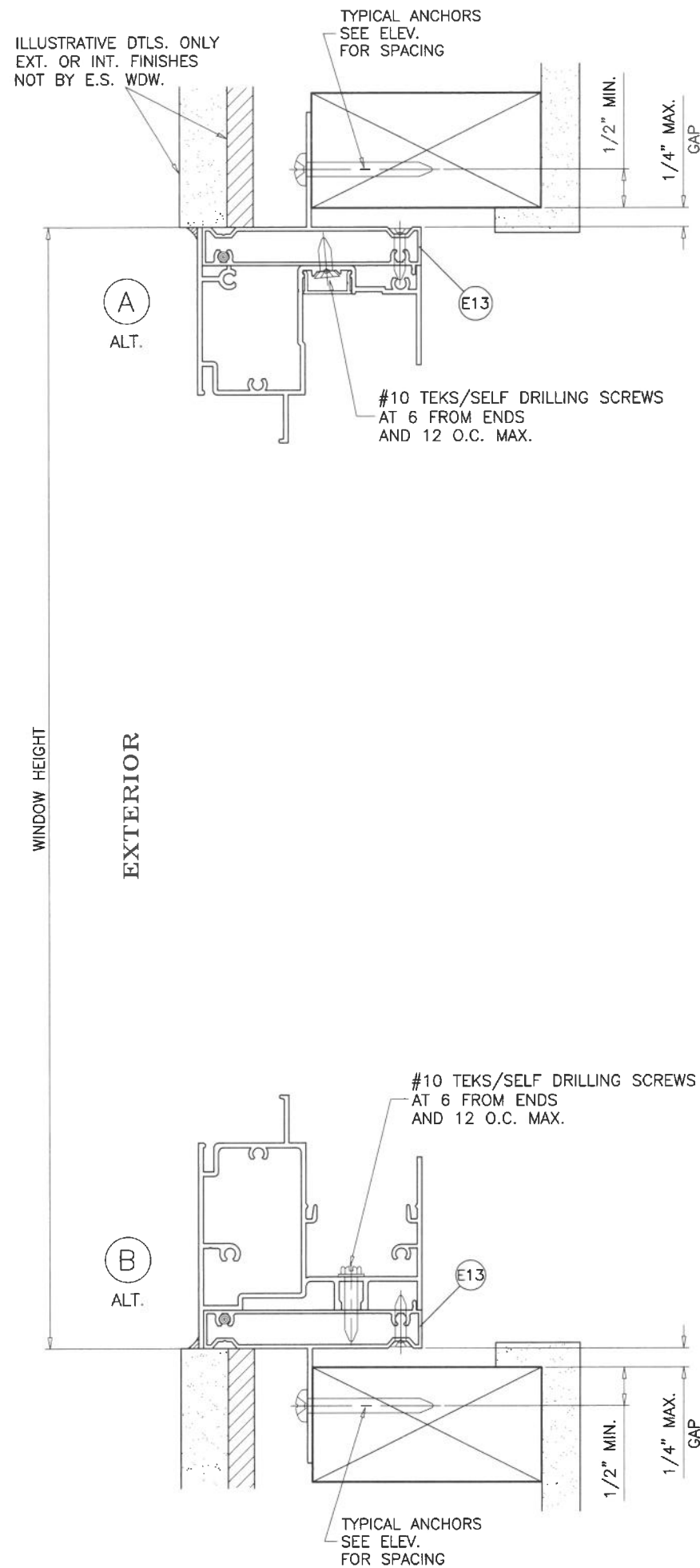
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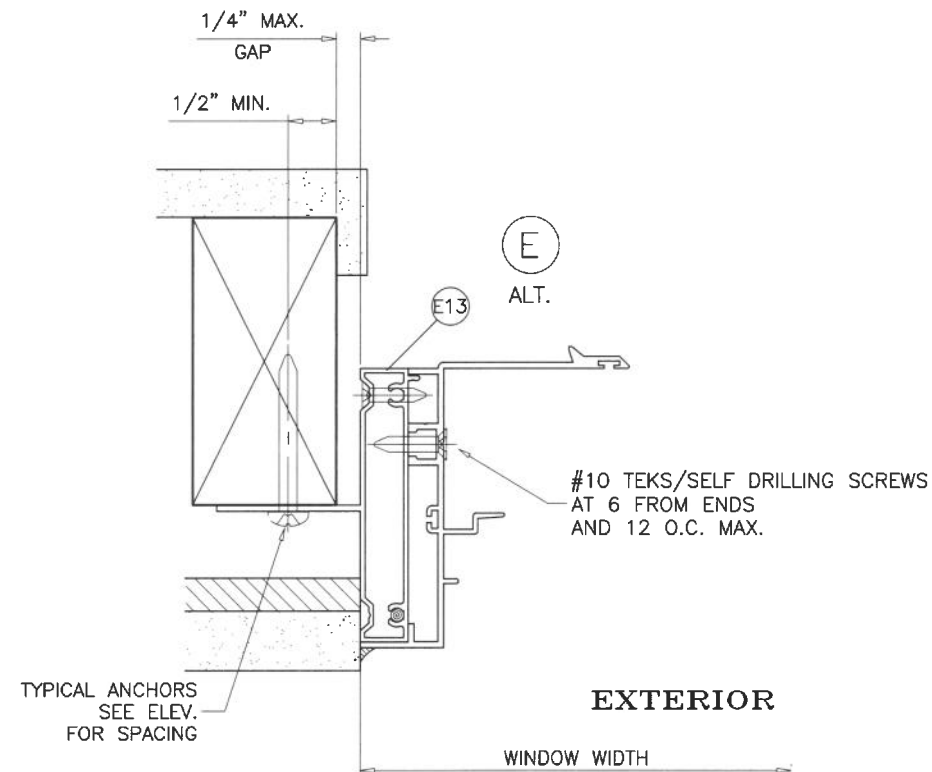
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| ES-EL200 HORIZONTAL ROLLING ALUM. WDW. (L.M.I.)                                                         |                  |
| E.S. WINDOWS, LLC<br>3550 N.W. 49 STREET<br>MIAMI, FL. 33142<br>TEL. (305) 638-5151 FAX. (305) 638-5158 |                  |
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| sheet 7 of 11                                                                                           |                  |



**TYPICAL ANCHORS:** SEE ELEV. FOR SPACING

**#10 WOOD SCREWS** (GRADE 2 CRS)  
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES  
 1-1/2" MIN. PENETRATION INTO WOOD



**INSTALLATION DETAILS WITH FIN FRAME ADAPTER**  
 SEE SHEETS 4 & 6 FOR WINDOW DETAILS

Sealed: 7/17/2026

FL #21557



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revisions:

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 scale: 1/2" = 1"  
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drawing no.  
**W16-69**

sheet **8** of 11

| ITEM # | PART #       | REQD.    | DESCRIPTION                                     | MATERIAL           | MANF./SUPPLIER/REMARKS   |
|--------|--------------|----------|-------------------------------------------------|--------------------|--------------------------|
| E1     | ES-EL104     | 1        | FRAME HEAD                                      | 6063-T6            | -                        |
| E2     | ES-EL201     | 1        | FRAME SILL                                      | 6063-T6            | -                        |
| E3     | ES-EL202     | 1        | SILL TRACK                                      | 6063-T6            | -                        |
| E4     | ES-EL102     | 2        | FRAME JAMB (OPERATING)                          | 6063-T6            | -                        |
| E4.1   | ES-EL101A    | 2        | FRAME JAMB (FIXED)                              | 6063-T6            | -                        |
| E5     | ES-EL105     | 1        | INTERLOCK STILE                                 | 6063-T6            | -                        |
| E6     | ES-EL106     | 1        | JAMB STILE                                      | 6063-T6            | -                        |
| E7     | ES-EL107     | 2        | VENT TOP & BOTTOM RAIL                          | 6063-T6            | -                        |
| E8     | ES-EL108A    | 1        | FIXED MTG. STILE                                | 6063-T6            | -                        |
| E9     | ES-EL109     | AS REQD. | GLAZING BEAD (5/16" LAM. GLASS)                 | 6063-T6            | -                        |
| E10    | ES-EL110     | AS REQD. | GLAZING BEAD (7/16" LAM. GLASS)                 | 6063-T6            | -                        |
| E10A   | ES-EL123     | AS REQD. | GLAZING BEAD (7/16" LAM. GLASS)                 | 6063-T6            | -                        |
| E11    | ES-EL111     | AS REQD. | GLAZING BEAD (INSUL. LAM. GLASS)                | 6063-T6            | -                        |
| E11A   | ES-EL116     | AS REQD. | GLAZING BEAD (INSUL. LAM. GLASS)                | 6063-T6            | -                        |
| E12    | ES-EL112     | AS REQD. | FLUSH FRAME ADAPTER                             | 6063-T6            | -                        |
| E13    | ES-EL115     | AS REQD. | FLUSH FRAME ADAPTER WITH FIN                    | 6063-T5            | -                        |
| E14    | ES-EL114     | AS REQD. | HEAD SCREW COVER                                | 6063-T6            | -                        |
| E15    | ES-2011      | AS REQD. | SILL RISER                                      | 6063-T6            | -                        |
| E16    | ES-EL220     | AS REQD. | INTERLOCK STILE STIFFENER                       | 6005-T5            | -                        |
| E17    | ES-EL221     | AS REQD. | FIX. MTG. STILE STIFFENER                       | 6005-T5            | -                        |
| E18    | ES-EL113A    | AS REQD. | JAMB SCREW COVER                                | 6063-T6            | -                        |
|        |              |          |                                                 |                    |                          |
| M1     | ES-5008A     | AS REQD. | GLAZING BEAD BULB                               | SILICONE           | DUROMETER 60±5 SHORE A   |
| M1A    | EL100-G02    | AS REQD. | EXTERIOR LEAF GASKET                            | SILICONE           | DUROMETER 60±5 SHORE A   |
| M1B    | ES-H-340-G05 | AS REQD. | EXTERIOR WEDGE GASKET                           | SILICONE           | DUROMETER 65±5 SHORE A   |
| M2     | 80-372A      | 2/ LITE  | SETTING BLOCK AT 1/4 POINTS (LAM. GLASS)        | SILICONE           | DUROMETER 80±5 SHORE A   |
| M3     | EL100-B01    | 2/ LITE  | SETTING BLOCK AT 1/4 POINTS (INSUL. LAM. GLASS) | SILICONE           | DUROMETER 80±5 SHORE A   |
| M4     | EL100-301    | AS REQD. | VENT STOP                                       | RIGID PVC          | -                        |
| M5     | W23211NG     | AS REQD. | PILE W'STRIPPING WITH PLASTIC FIN               | POLYPROPYLENE      | -                        |
| M6     | SK08-4010    | 2/ VENT  | SPRING LOADED LATCH                             | 6063-T6            | ALTERNATE TO SWEEP LATCH |
| M7     | ES-1012      | 2/ LATCH | LATCH SPRING                                    | ST. STEEL          | -                        |
| M8     | SL302-XX     | 2/ VENT  | SWEEP LATCH                                     | DIE CAST ALUM      | -                        |
| M9     | WA2L         | 2        | WEEP HOLE COVER                                 | RIGID PVC          | -                        |
| M10    | ES-1000-P1L  | -        | LEFT NOTCH CAP                                  | NYLON              | -                        |
| M11    | ES-1000-P1R  | -        | RIGHT NOTCH CAP                                 | NYLON              | -                        |
| M12    | WPSA-N1      | 2        | 3/4" X 3/4" RETIC FOAM PAD                      | FOAM               | -                        |
| M13    | TAR-16019P-A | 2        | ROLLER                                          | POLYAMIDE & ACETAL | -                        |
| M14    | TAR-16019P   | 2        | ROLLER HOUSING                                  | POLYAMIDE          | -                        |
| M15    | #8 X 1"      | -        | FLUSH FRAME ADAPTER ASSEMBLY FASTENERS          | ST. STEEL          | FH SMS                   |
| M16    | #8 X 1"      | -        | FRAME AND VENT ASSEMBLY FASTENERS               | ST. STEEL          | PH SMS                   |
| M17    | #8 X 3"      | -        | FRAME SILL ASSEMBLY FASTENERS                   | ST. STEEL          | PH SMS                   |
| M18    | #8 X 3/4"    | -        | SWEEP LATCH FASTENERS                           | ST. STEEL          | FH SMS                   |
| M20    | #14 X 3/4"   | -        | ASSEMBLY FASTENERS FOR FLUSH ADAPTER            | ST. STEEL          | PH SMS                   |

Sealed: 7/17/2026



FL #21557

**AL-FAROOQ CORPORATION**  
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(C.A.N. 3538)

ES-EL200 HORIZONTAL ROLLING ALUM. WDW. (L.M.I.)

**E.S. WINDOWS, LLC**  
3550 N.W. 49 STREET  
MIAMI, FL. 33142  
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:

| no | date | by | description |
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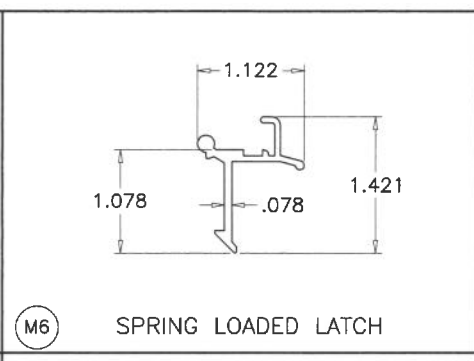
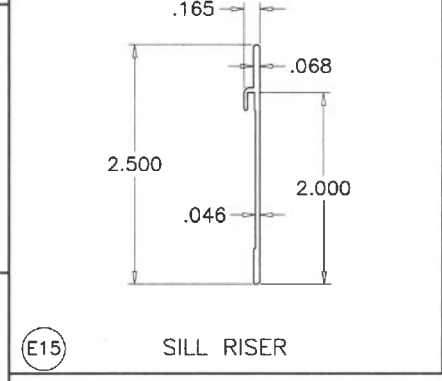
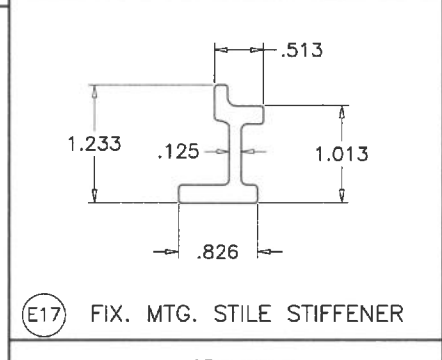
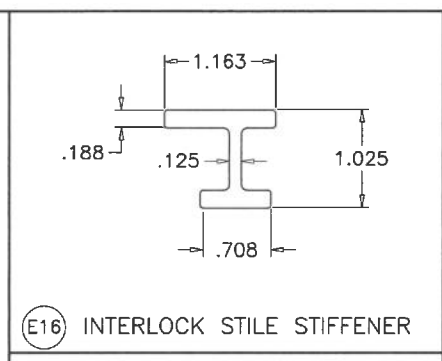
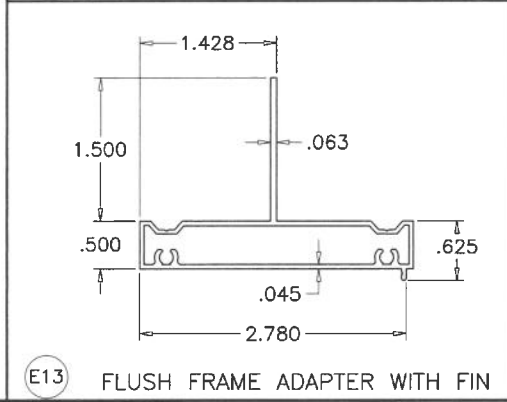
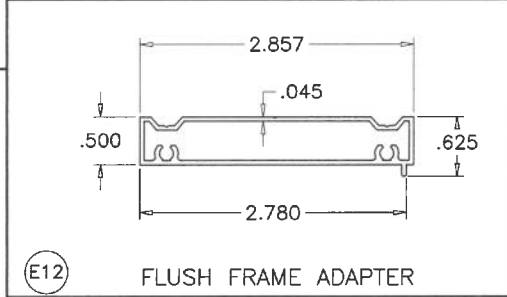
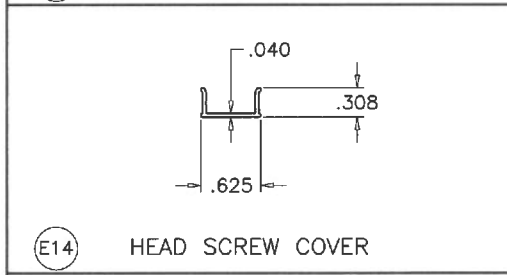
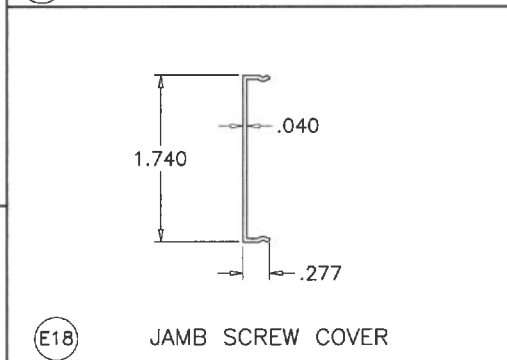
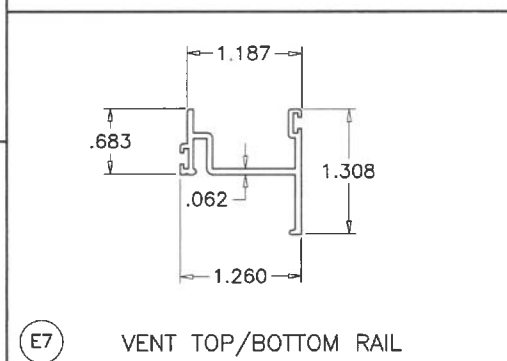
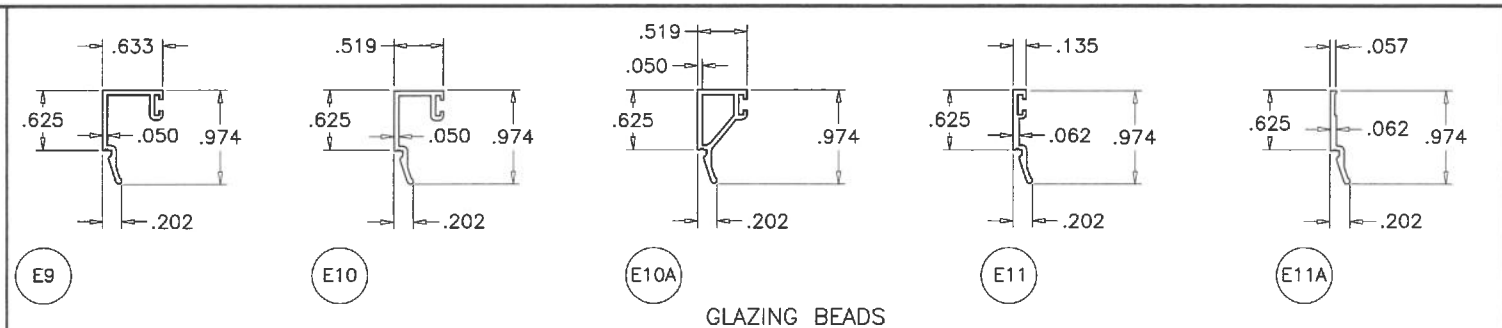
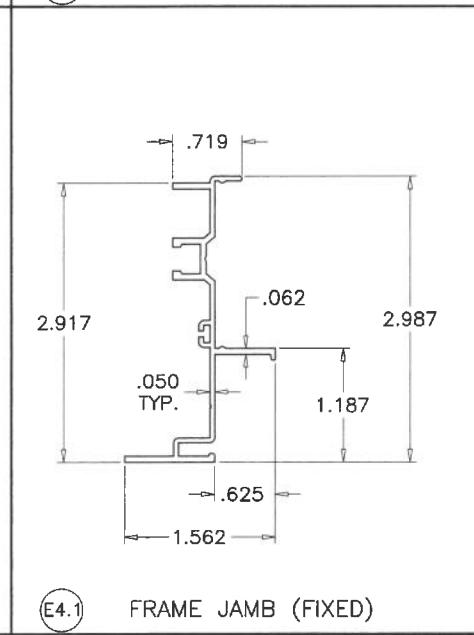
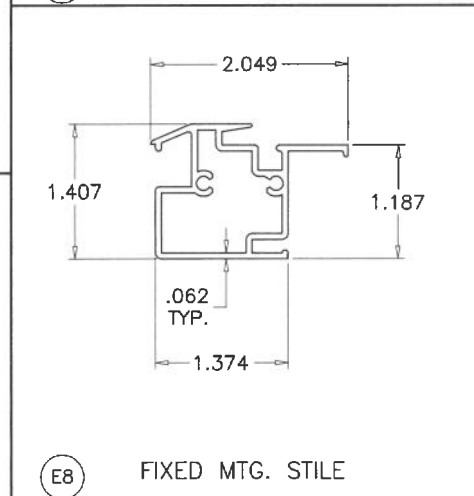
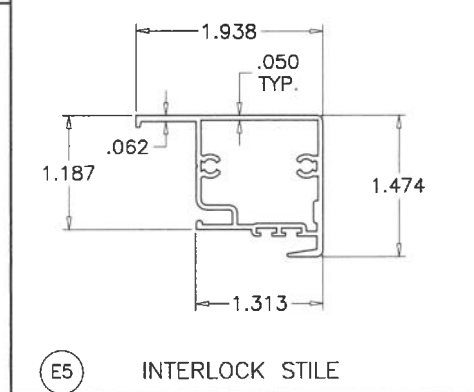
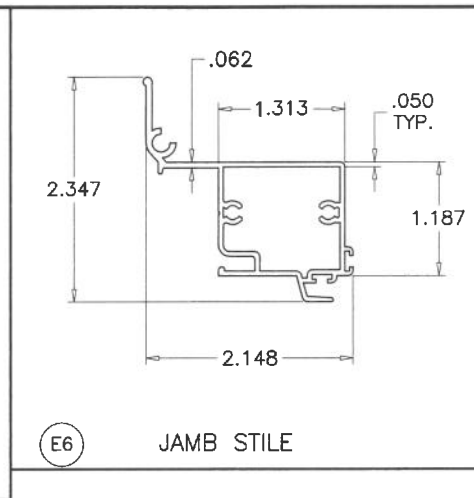
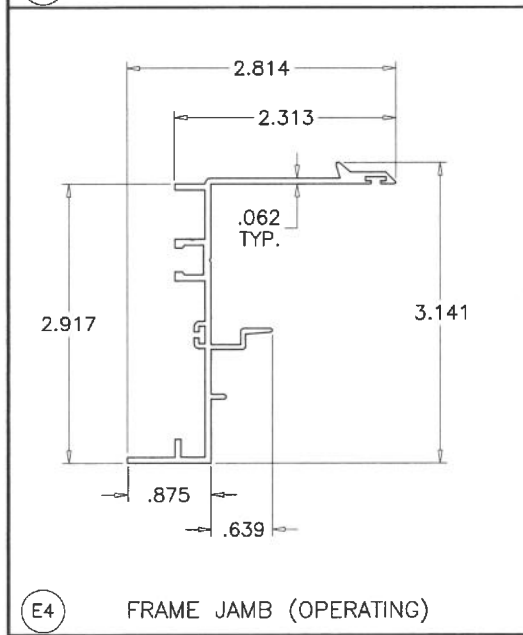
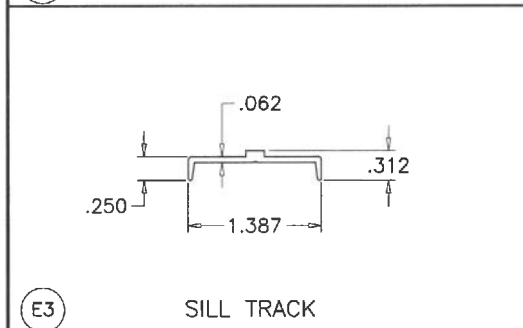
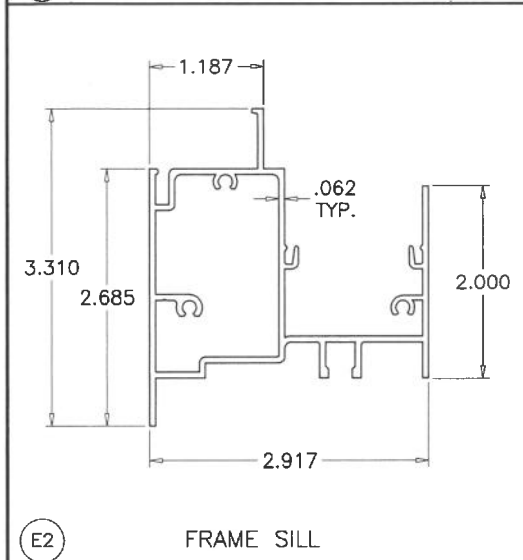
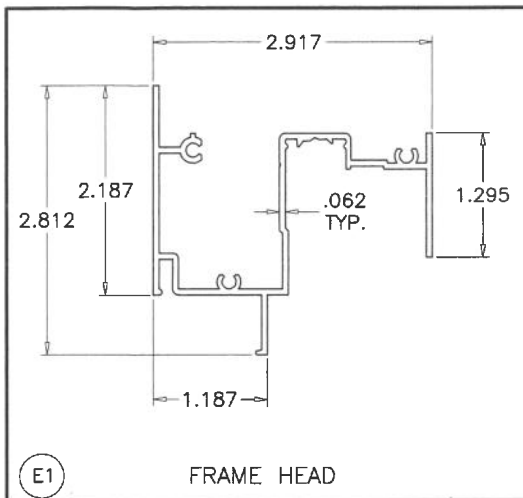
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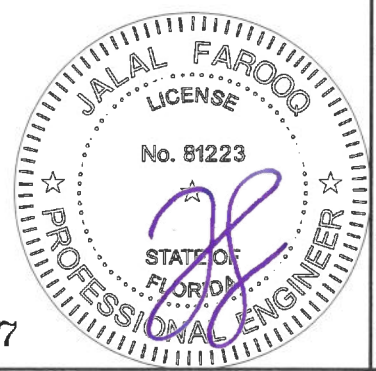
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sheet 9 of 11

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COMP-ANL\W16-69ES

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revisions:

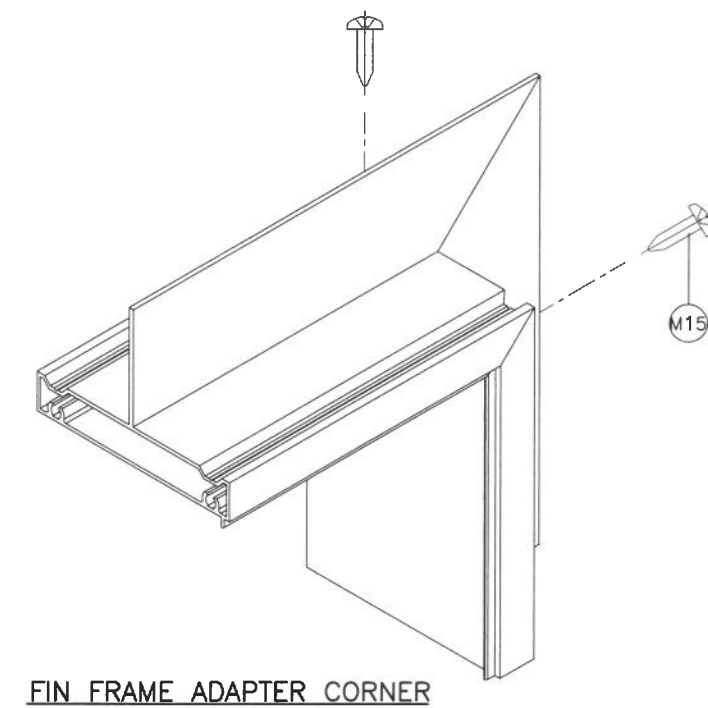
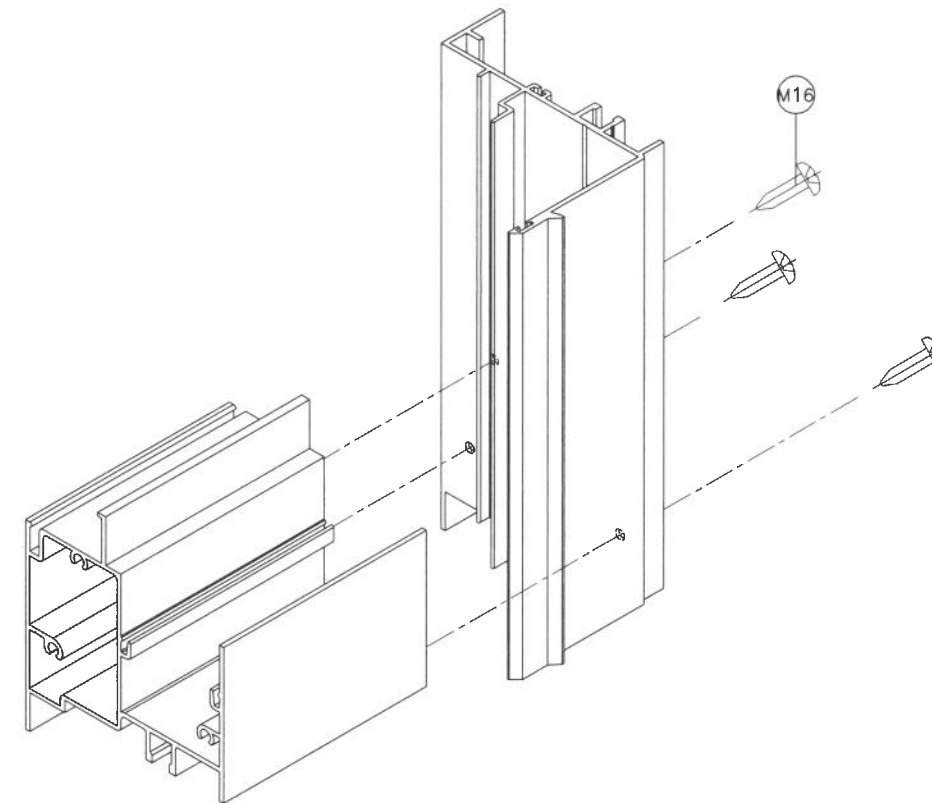
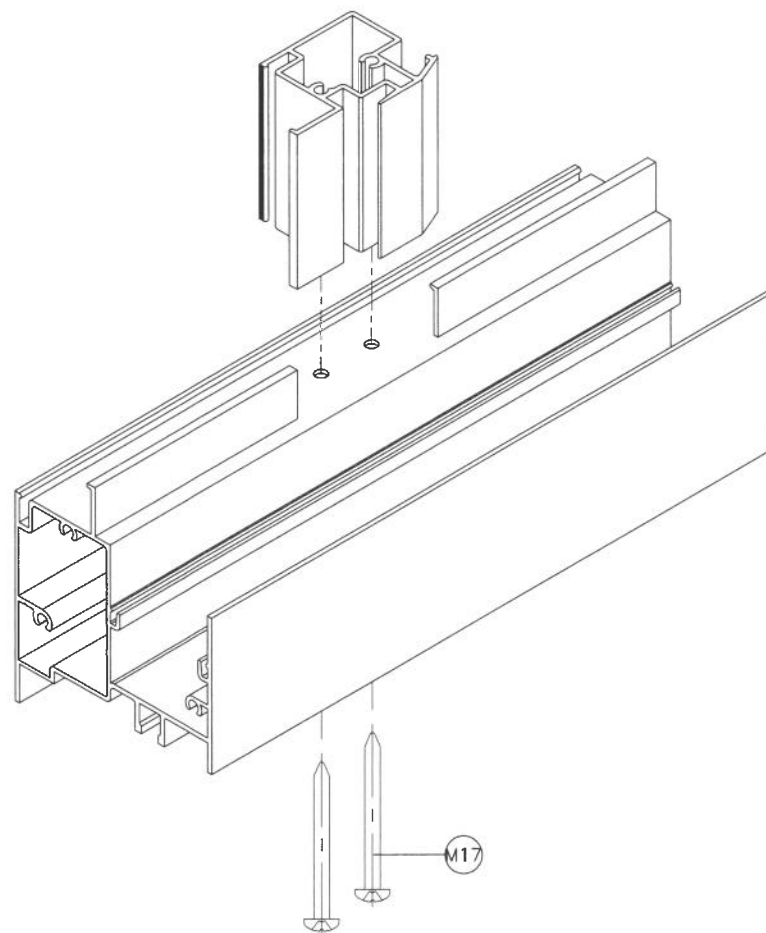
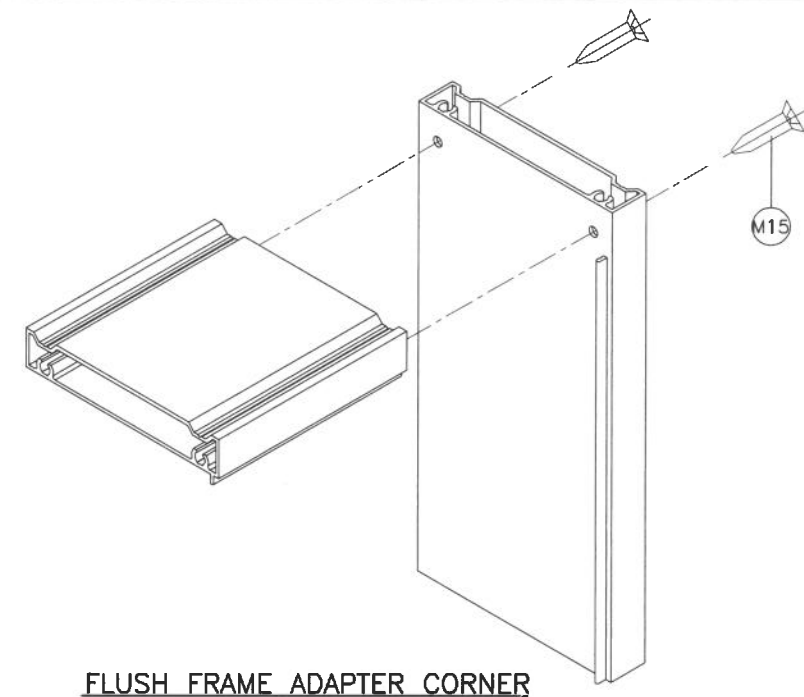
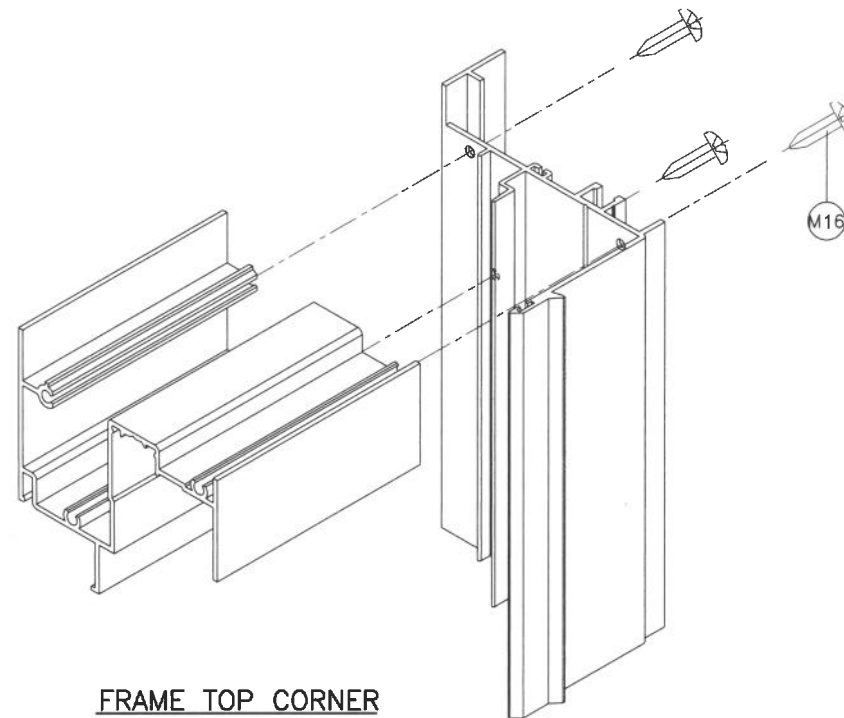
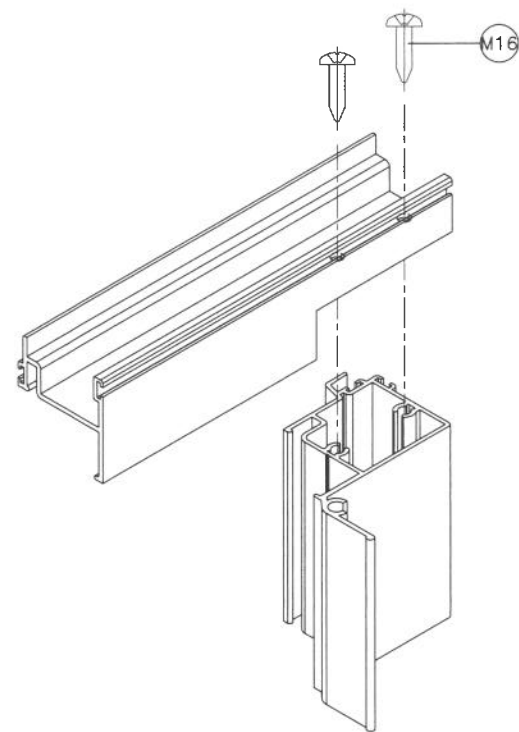
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sheet 10 of 11

FL #21557

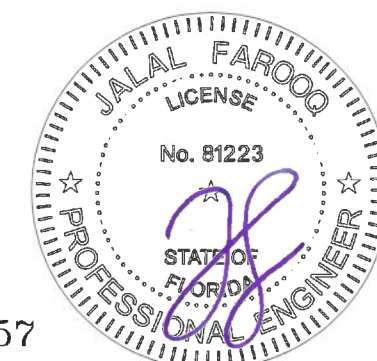


FIX. MTG. RAIL CORNER

FRAME BOTTOM CORNER

Sealed: 7/17/2026

FL #21557



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