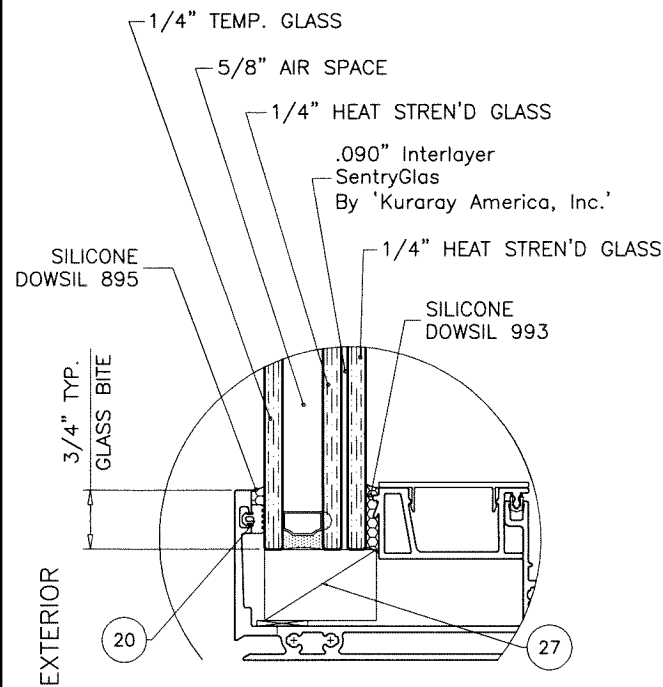
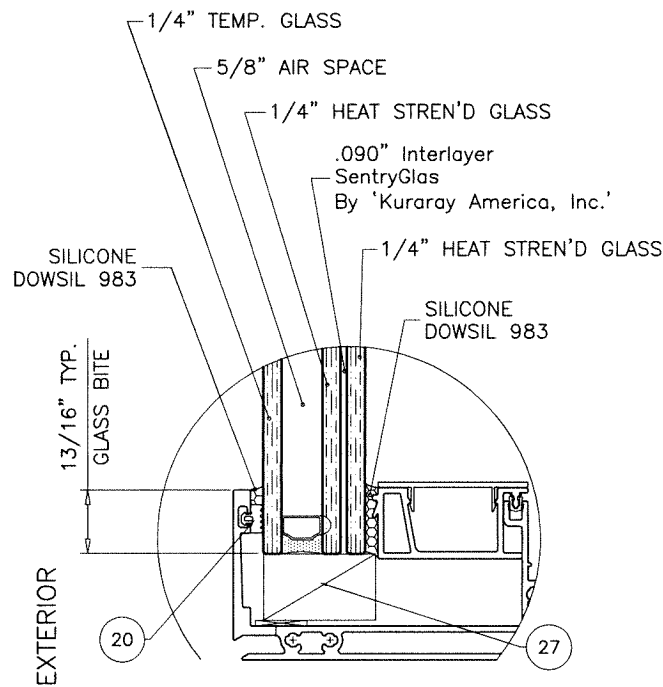




**GLASS TYPE 'A'**  
1-3/8" OVERALL INSUL. LAM. GLASS



**GLASS TYPE 'A1'**  
1-3/8" OVERALL INSUL. LAM. GLASS

**5/8" 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

PRODUCT WITH GLASS TYPE 'A1' COMPLIES WITH REQUIREMENTS OF ANSI Z97.1.  
SAFEGUARD REQUIREMENTS TO BE VERIFIED.

**ES-LS7035**  
**ALUMINUM SLIDING GLASS DOOR**

DESIGN LOAD RATING FOR DOORS TO BE AS PER CHARTS SHOWN  
ON SHEET 3.

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).

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.

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.

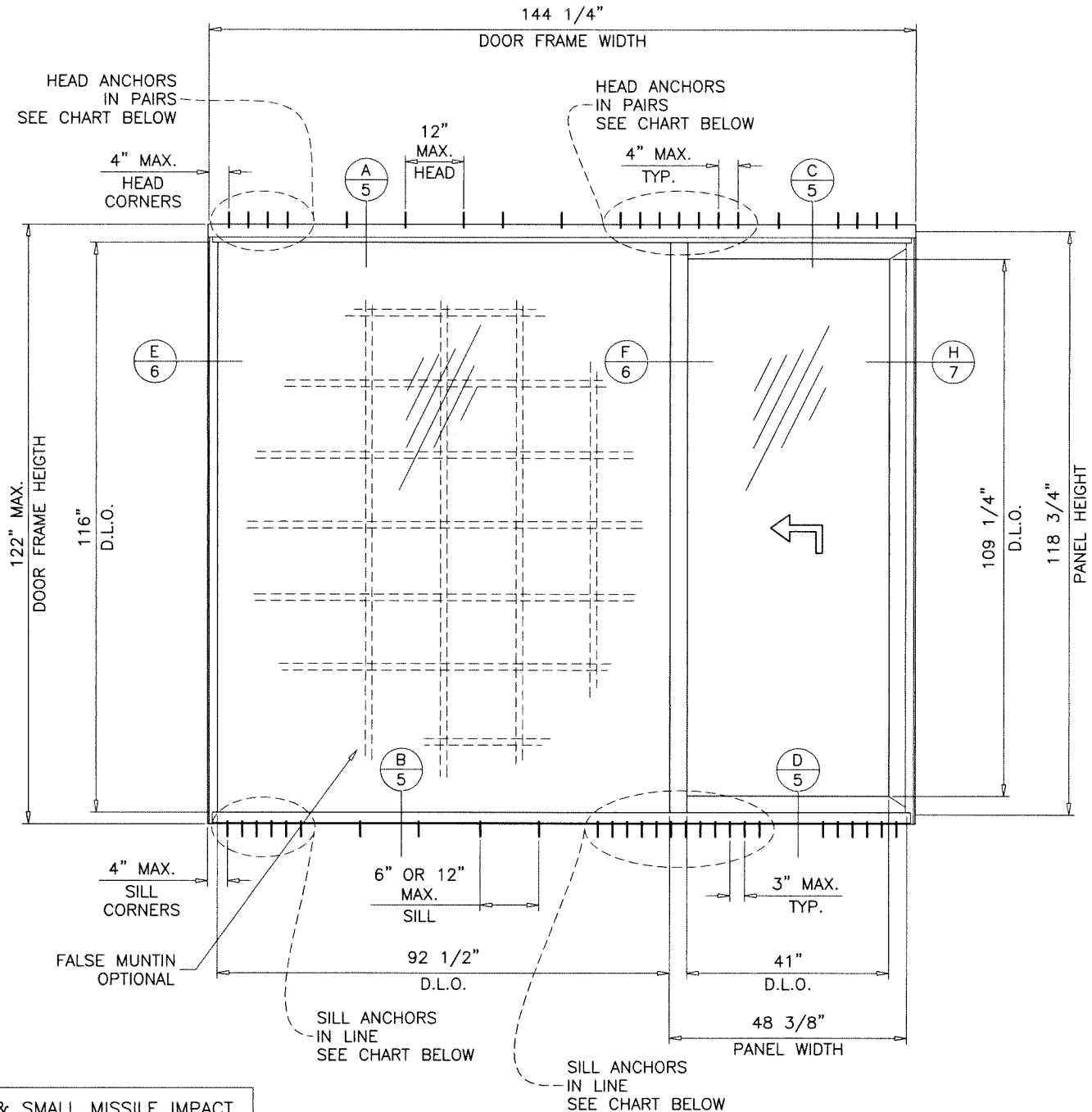
THESE DOORS ARE RATED FOR LARGE & SMALL MISSILE IMPACT.  
SHUTTERS ARE NOT REQUIRED.

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.

| DOOR HT.<br>UPTO | DESIGN<br>LOADS<br>UPTO | NO. OF ANCHOR PAIRS AT HEAD |   |                |   | NO. OF IN LINE ANCHORS AT SILL |   |                |    |
|------------------|-------------------------|-----------------------------|---|----------------|---|--------------------------------|---|----------------|----|
|                  |                         | JAMB ENDS                   |   | INTERLOCK ENDS |   | JAMB ENDS                      |   | INTERLOCK ENDS |    |
| 122"             | 120 PSF                 | 4                           | 4 | 7              | 7 | 6                              | 6 | 12             | 12 |
| 127-3/8"         | 78 PSF                  | 3                           | - | 5              | - | 6                              | - | 10             | -  |

DAYLITE OPENINGS WIDTHS:  
OPERABLE PANEL WIDTH - 7.375"  
FIXED PANEL WIDTH - 5.525"

DAYLITE OPENING HEIGHT:  
OPERABLE PANEL HEIGHT - 9.50"  
FRAME HEIGHT - 6.0"  
PANEL HEIGHT = DOOR FRAME HEIGHT - 3.250"



**TYPICAL ELEVATION**  
( OX )  
TESTED UNIT

Sealed: 9/24/2026

INSUL. LAM. GLASS  
LARGE MISSILE IMPACT

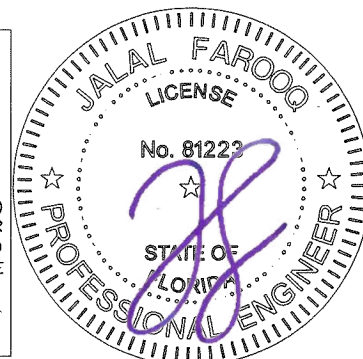
FL #29516

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  
(C.A.N. 3538)

ES-LS7035 ALUMINUM SLIDING GL. DOOR (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     | description            | by |
|------------|----|----------|------------------------|----|
|            | C  | 09.19.23 | UPDATED TO 2023 FBC    |    |
|            | D  | 02.18.25 | PRODUCT SERIES REVISED |    |
|            | E  | 06.19.25 | ALT. JAMB ADDED        |    |
|            | F  | 09.24.26 | UPDATED TO 2026 FBC    |    |

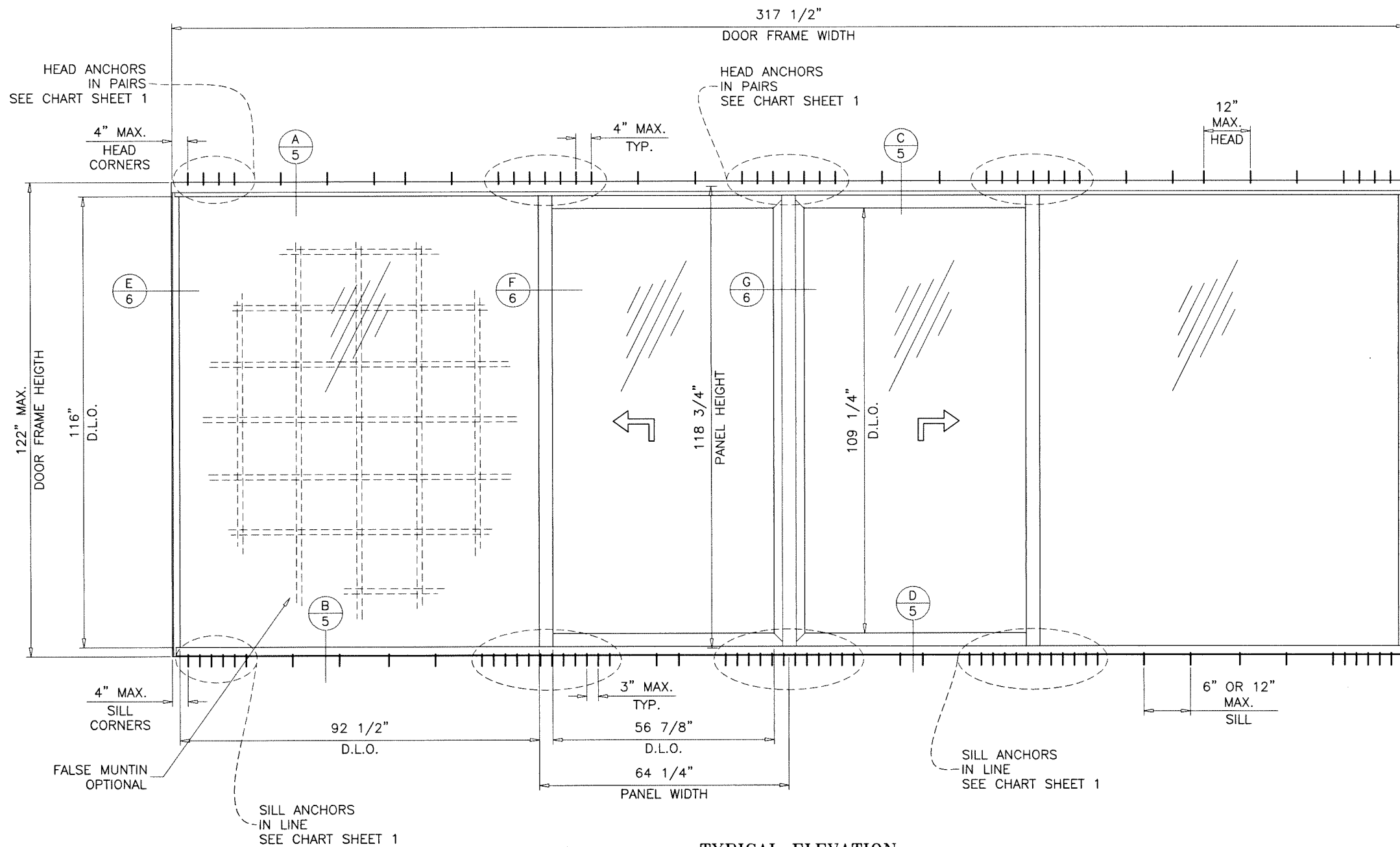
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chk. by:

drawing no.

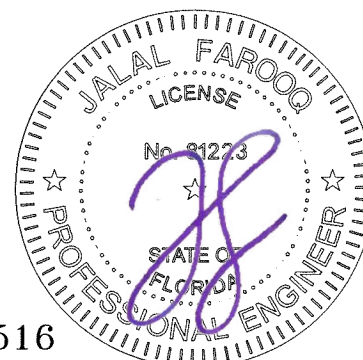
19-23F

sheet 1 of 10

COMP-ANL 19-23F-ES



**TYPICAL ELEVATION**  
( OXXO )



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FL #29516

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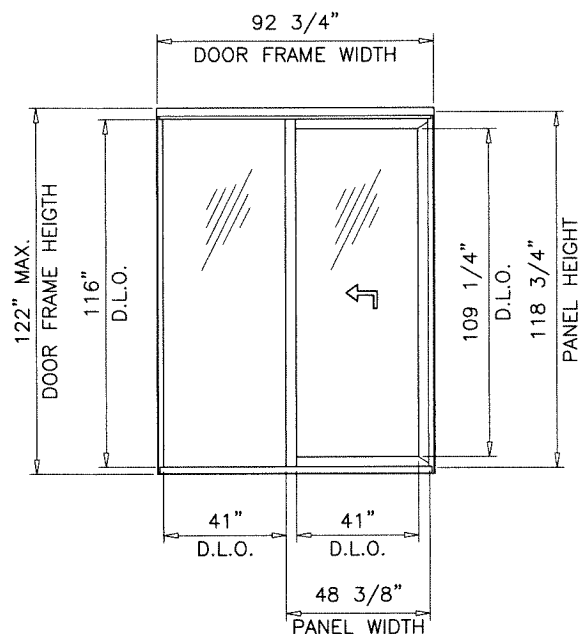
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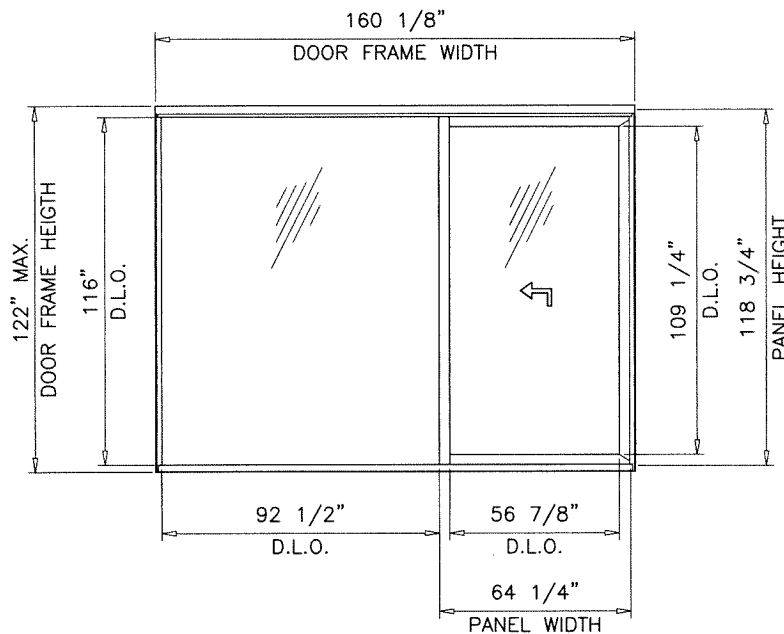
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drawing no.  
**19-23F**  
sheet 2 of 10

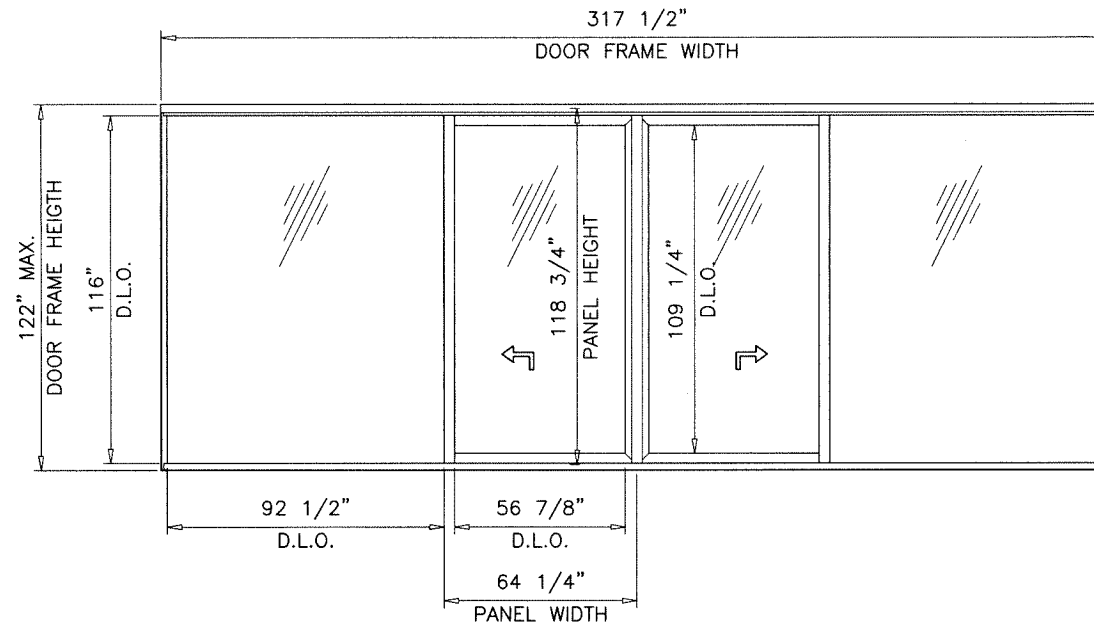
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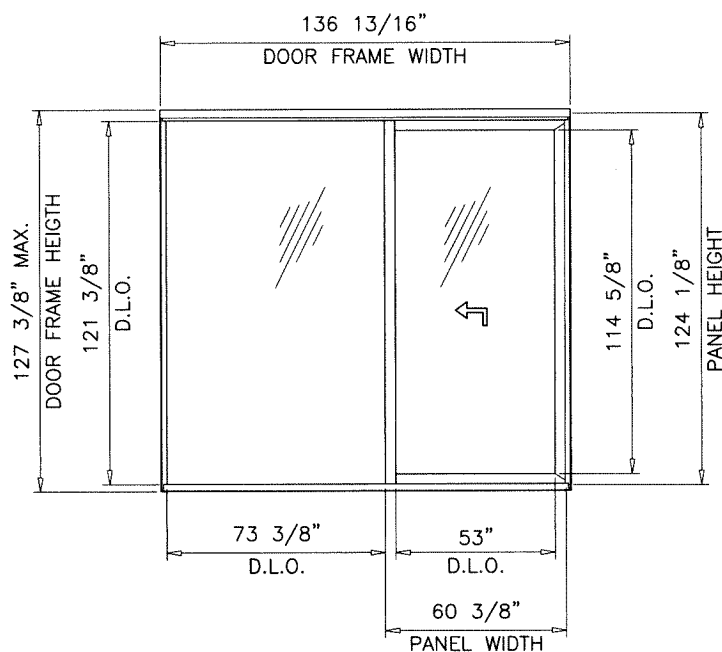
GLASS TYPE 'A'  
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 (FOR SIZES SHOWN ABOVE OR SMALLER) - 120.0 PSF



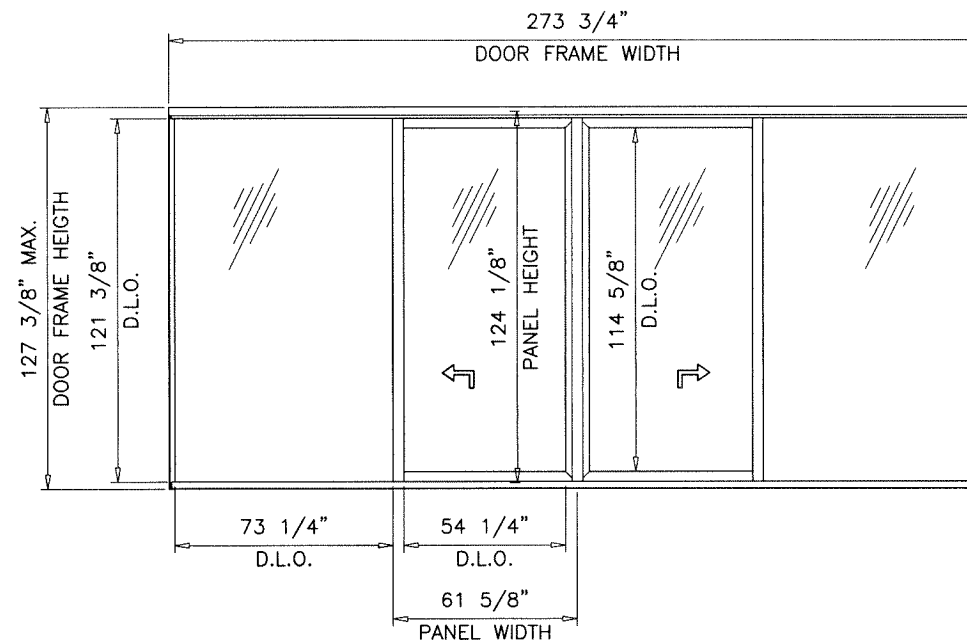
GLASS TYPE 'A'  
 MAXIMUM DESIGN LOAD RATING = + 98.0 PSF  
 (FOR SIZES SHOWN ABOVE OR SMALLER) - 98.0 PSF



GLASS TYPE 'A'  
 MAXIMUM DESIGN LOAD RATING = + 98.0 PSF  
 (FOR SIZES SHOWN ABOVE OR SMALLER) - 98.0 PSF



GLASS TYPE 'A1'  
 MAXIMUM DESIGN LOAD RATING = + 78.0 PSF  
 (FOR SIZES SHOWN ABOVE OR SMALLER) - 78.0 PSF



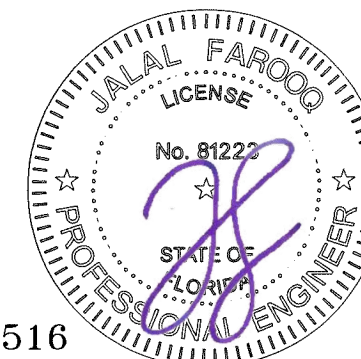
GLASS TYPE 'A1'  
 MAXIMUM DESIGN LOAD RATING = + 78.0 PSF  
 (FOR SIZES SHOWN ABOVE OR SMALLER) - 78.0 PSF

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

DOOR HEIGHT AND WIDTH SIZE MUST COMPLY  
 EGRESS REQUIREMENTS PER FBC AS REQUIRED.

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FL #29516



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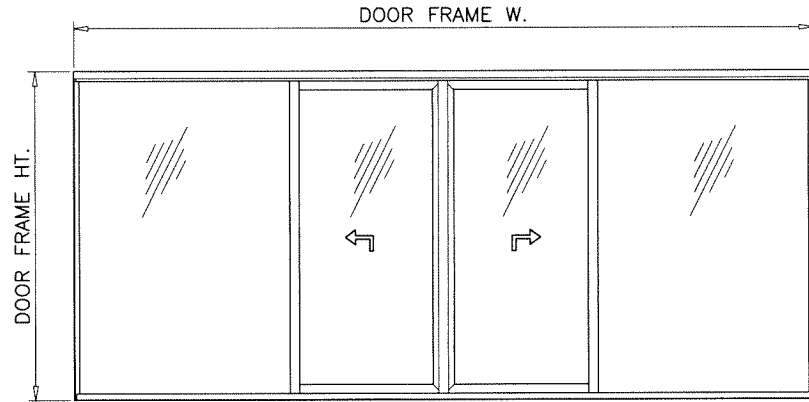
ES-LS7035 ALUMINUM SLIDING GL. DOOR (L.M.I.)

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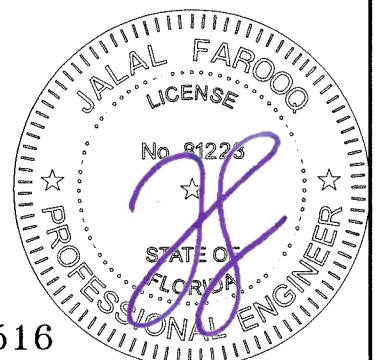
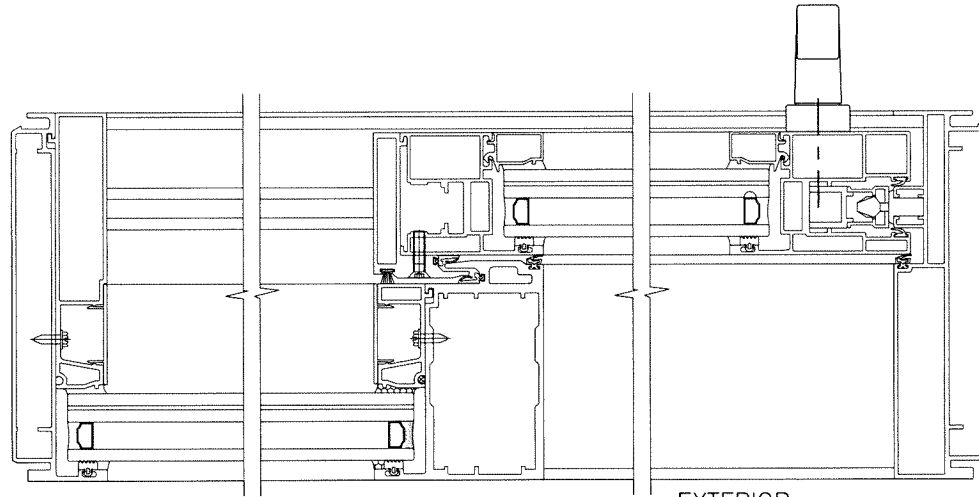
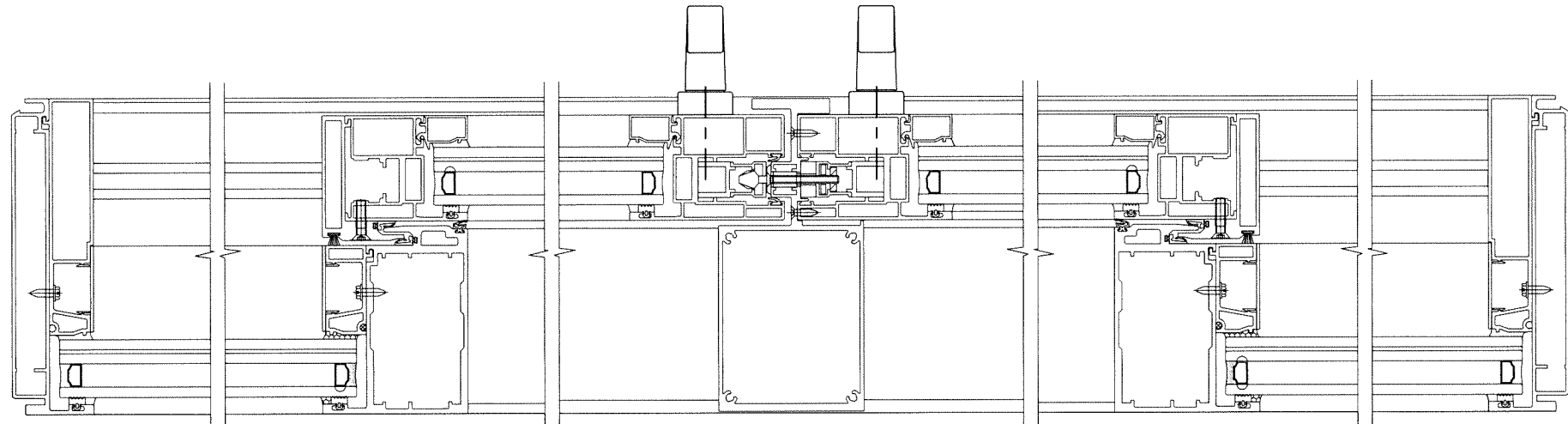
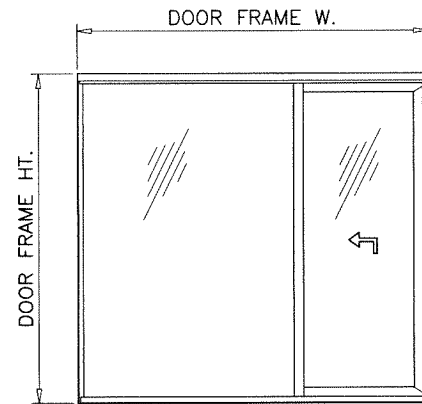
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 sheet 3 of 10



APPROVED CONFIGURATIONS



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FL #29516

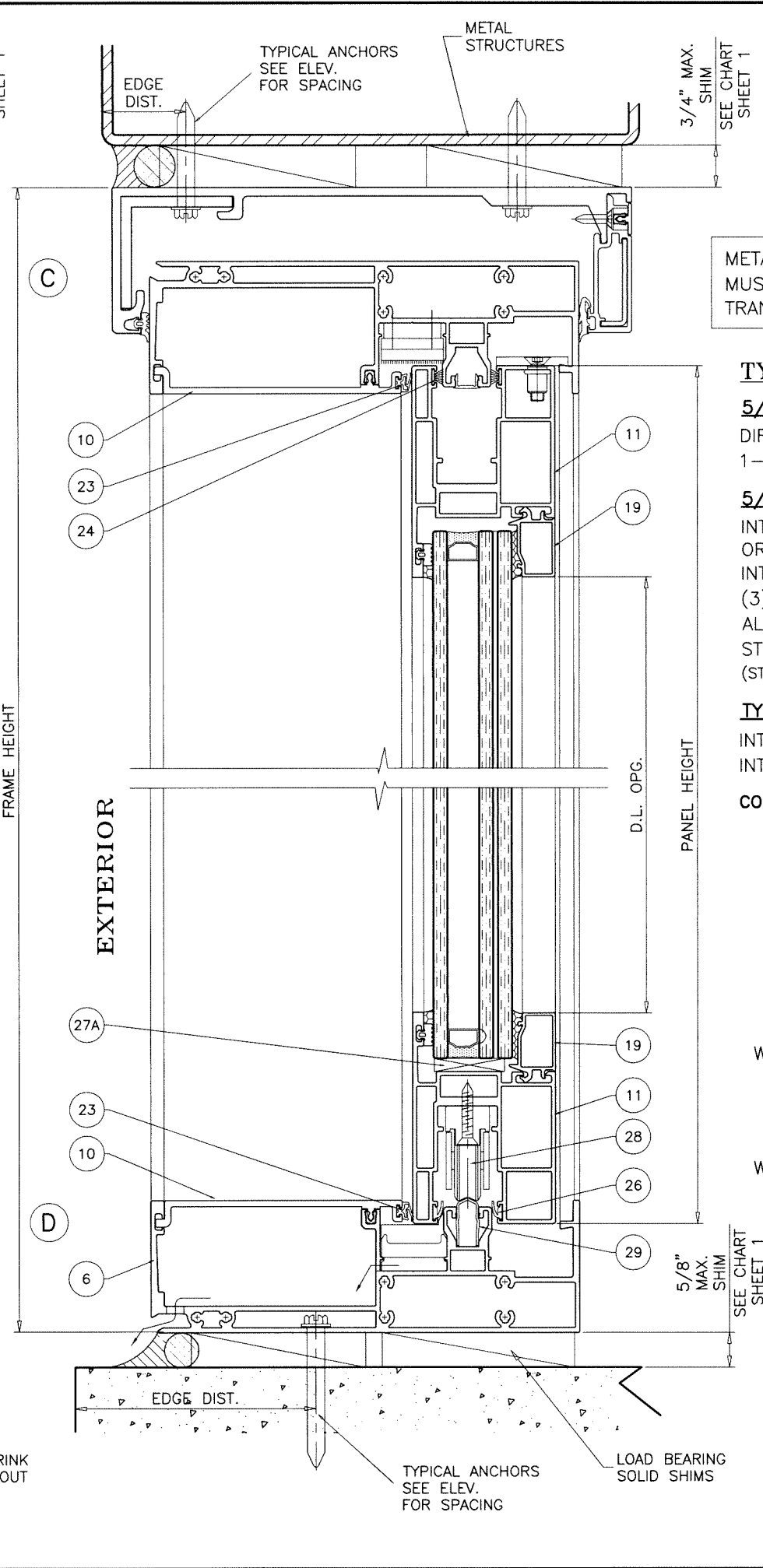
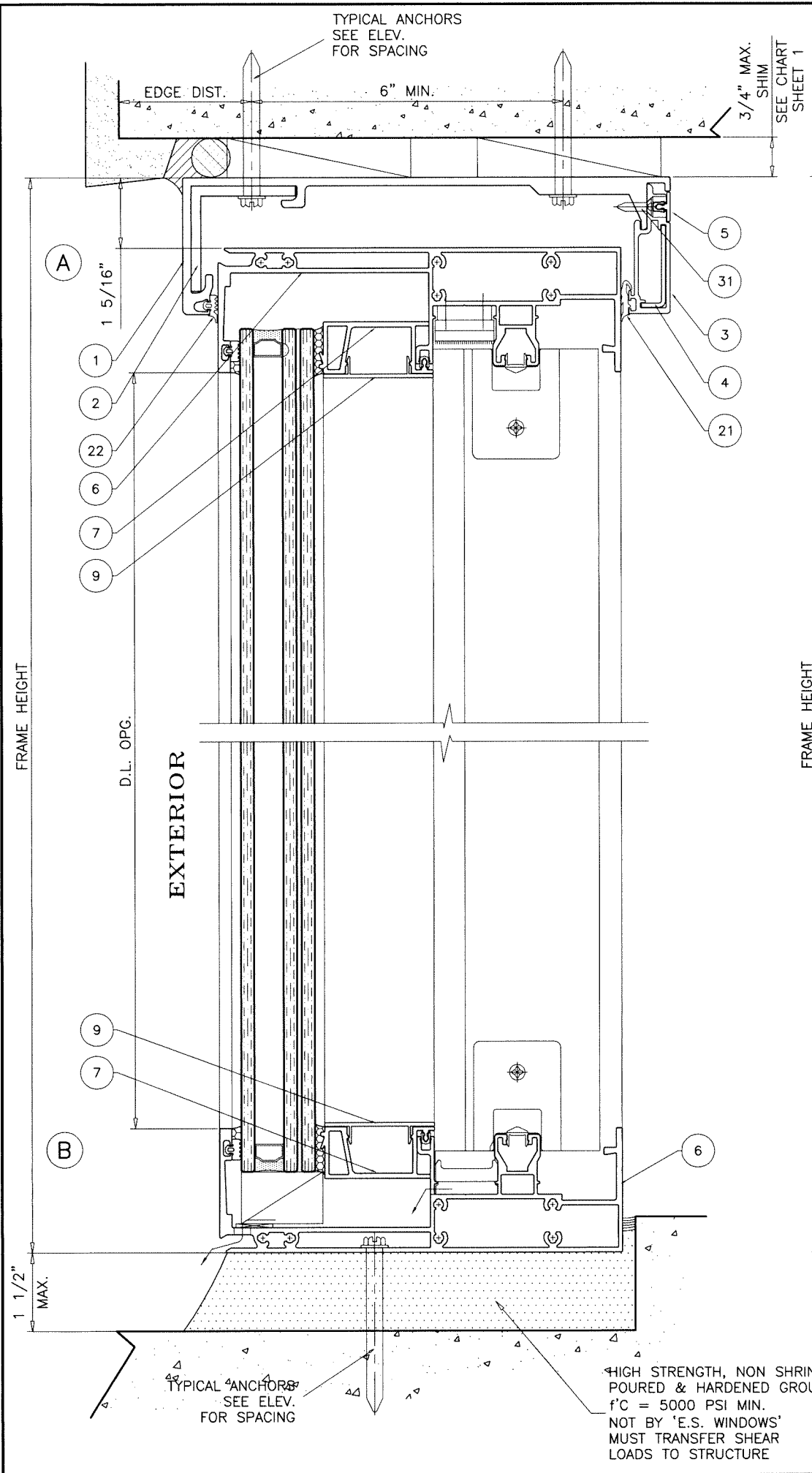
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drawing no. **19-23F**  
 sheet **4** of **10**  
 date: 03-30-19  
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 chk. by:

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 COMP-ANL\19-23F-ES

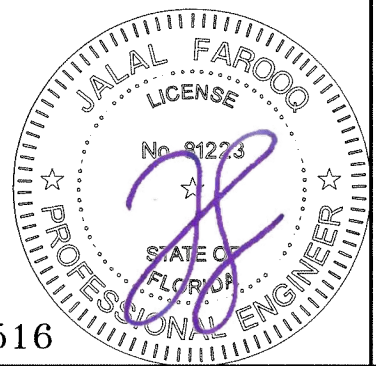


METAL STRUCTURES NOT BY 'E.S. WDW.'  
MUST SUPPORT LOADS IMPOSED BY GLAZING SYSTEM AND  
TRANSFER THEM TO THE BUILDING STRUCTURE.

**TYPICAL ANCHORS:** SEE ELEV. FOR SPACING  
**5/16" DIA. ULTRACON BY 'DEWALT'** ( $F_u=177$  KSI,  $F_y=155$  KSI)  
 DIRECTLY INTO CONCRETE  
 1-3/4" MIN. EMBED INTO CONCRETE (HEAD/SILL)  
**5/16" DIA. TEKS OR SELF DRILLING SCREWS** (GRADE 5 CRS)  
 INTO F.B.C. APPROVED MULLIONS  
 OR  
 INTO METAL STRUCTURES (HEAD/SILL)  
 (3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS  
 ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)  
 STEEL: 1/8" THK. MIN. ( $F_y = 36$  KSI MIN.)  
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

**TYPICAL EDGE DISTANCE**  
 INTO CONCRETE = 2-1/2" MIN.  
 INTO METAL STRUCTURE = 3/4" MIN.  
**CONCRETE AT HEAD, SILL  $f'_c = 3000$  PSI MIN.**

**WEEPHOLES:**  
 W1 = 5/16" DIA. WEEP HOLES IN CLUSTERS OF 3  
 SPACED TOGETHER 1/2" APART.  
 CLUSTERS LOCATED AT 4" FROM EACH END  
 AND 8" TO THE LEFT AND RIGHT OF CENTERLINE.  
 W2 = 5/16" DIA. WEEP HOLES IN CLUSTERS OF 3  
 SPACED TOGETHER 1/2" APART.  
 CLUSTERS LOCATED AT 26" FROM EACH END  
 AND 22" O.C.



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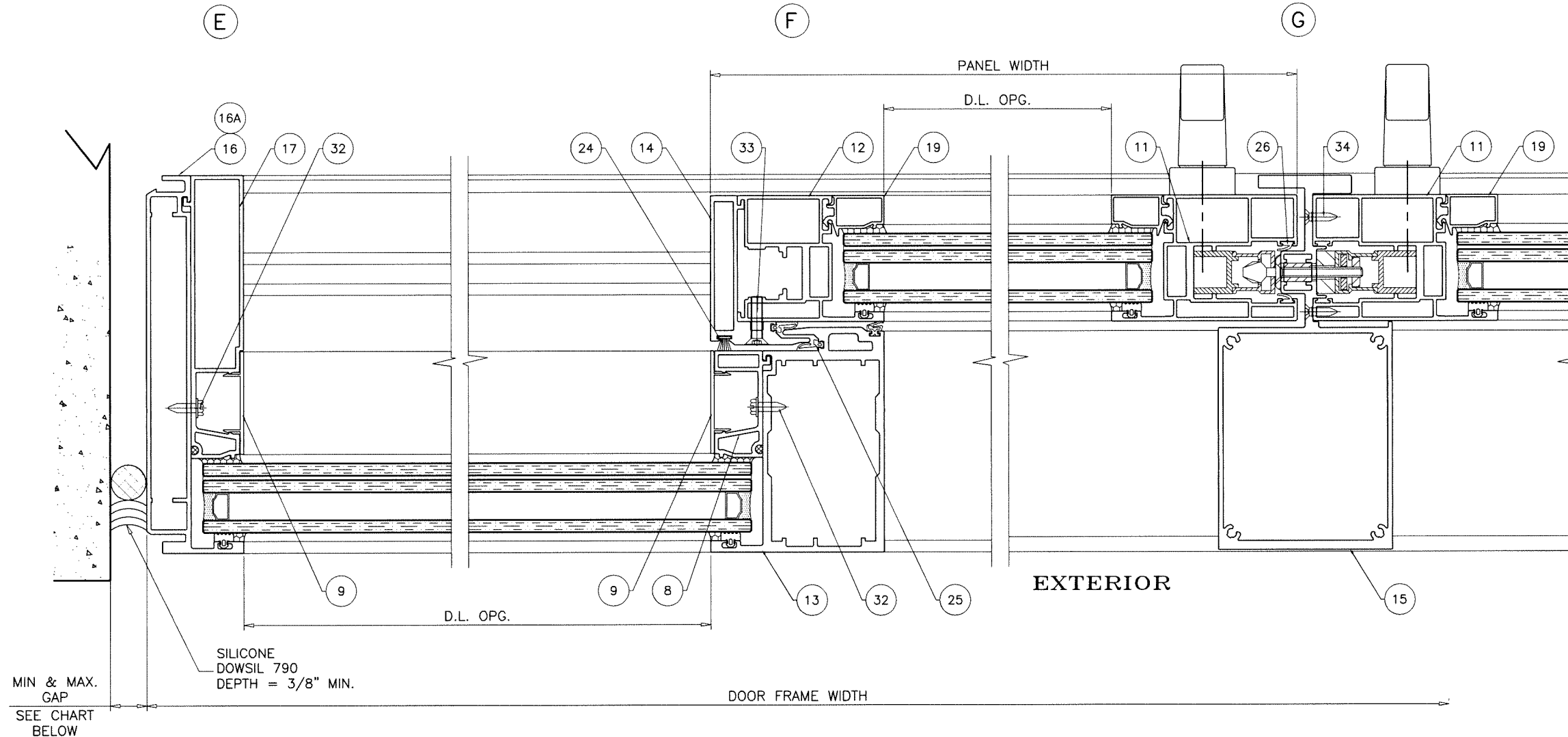
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date: 03-30-19  
 scale: 3/8" = 1"  
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drawing no.  
**19-23F**  
 sheet 5 of 10



| MAX. FRAME HEIGHT | GAP   |      |
|-------------------|-------|------|
|                   | MIN.  | MAX. |
| 96"               | 3/8"  | 3/4" |
| 122"              | 7/16" | 3/4" |
| 127-3/8"          | 7/16" | 3/4" |

NOTE:  
 MAX. MOVEMENT CONSIDERED=100% STRETCH.  
 PLEASE REFER TO SEALANT MANUFACTURER'S DATA AND APPLICATION MANUAL FOR COMPATABILITY OF SEALANT TO SUBSTRATE & WINDOWALL MATERIAL/FINISH AND COMPLIANCE FOR WARRANTY.  
 REFER TO ACI-117-10 FOR CONSTRUCTION TOLERANCES.

ALTERNATE SEALANTS AT JAMB GAPS CAN BE DESIGNED BY ENGINEER OF RECORD BASED ON MANUFACTURER GUIDE LINES.  
 GAPS LESS THAN 1/4" MAY BE DESIGNED BY ENGINEER OF RECORD BY THE USE OF BOND BREAKER TAPE OR 15% OF GAP ALLOWED MOVEMENT.

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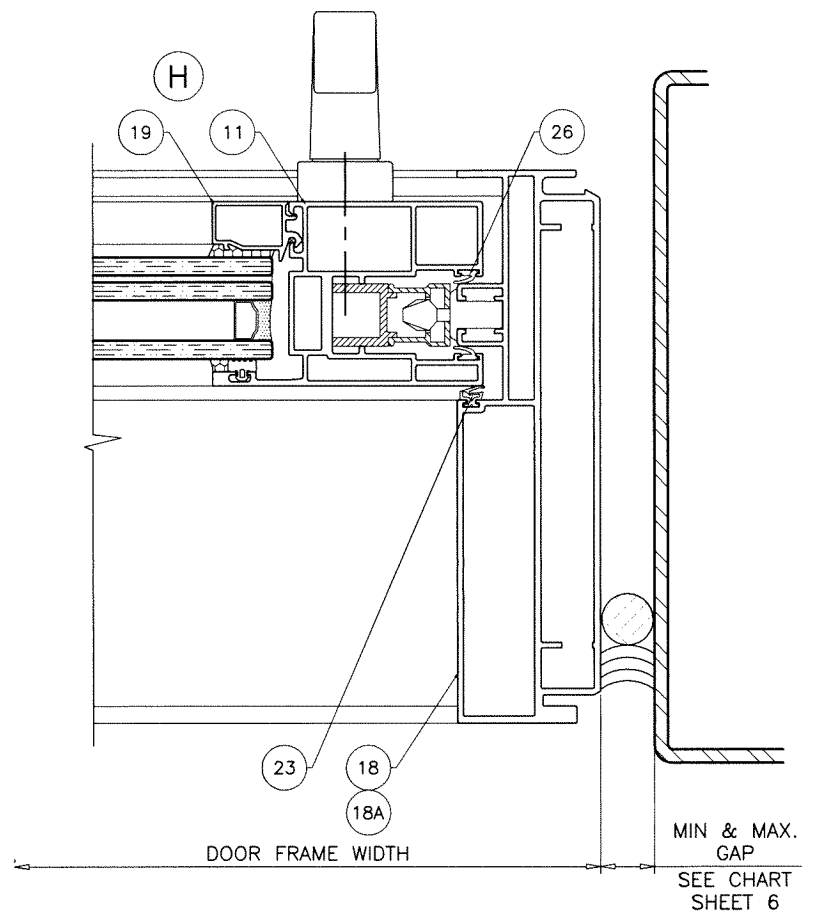
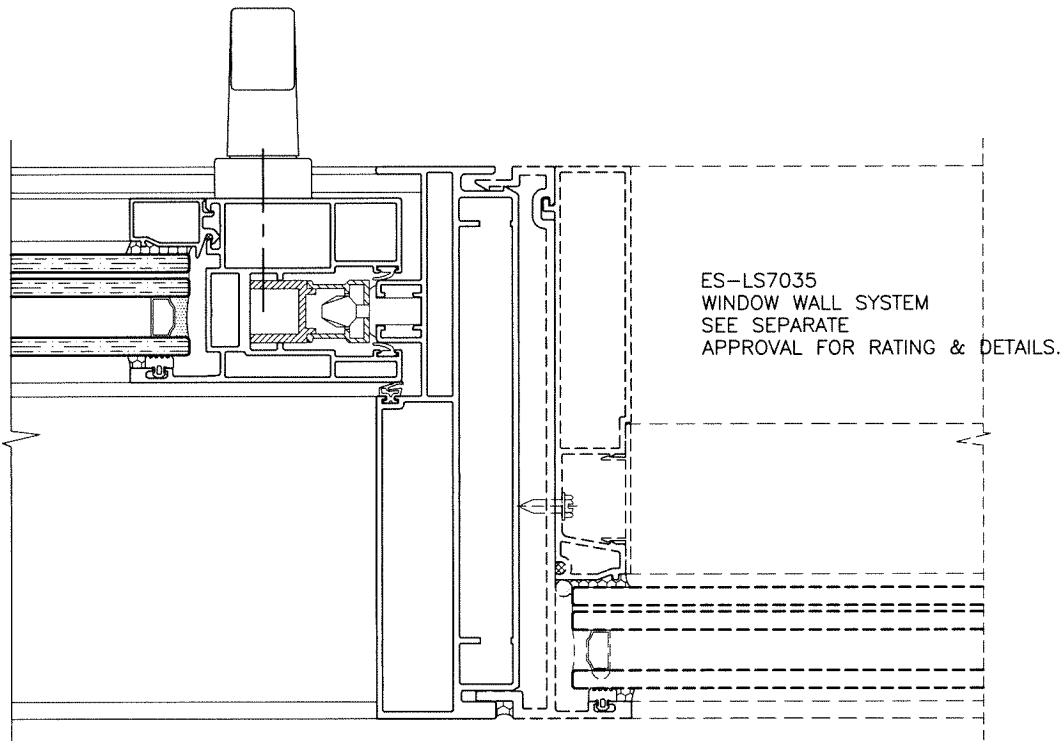
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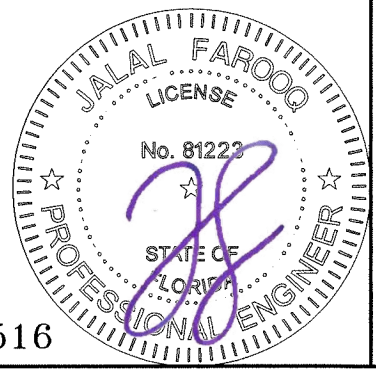
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 sheet 6 of 10



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COMP-ANL 19-23F-ES

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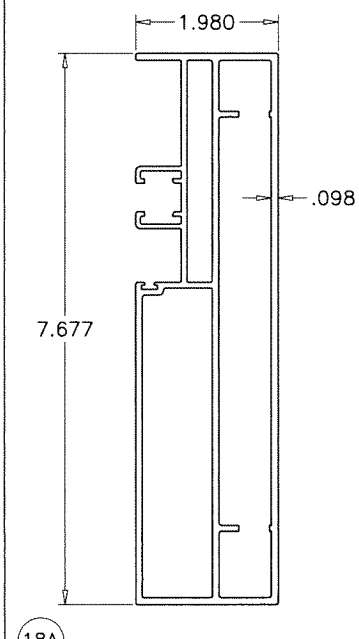
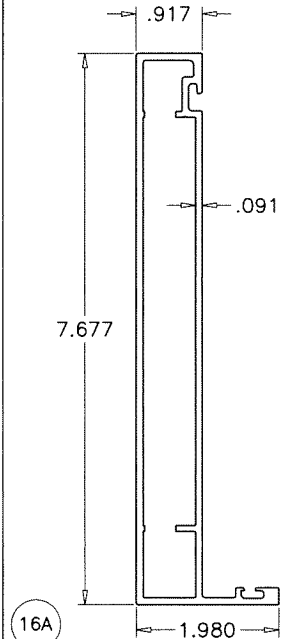
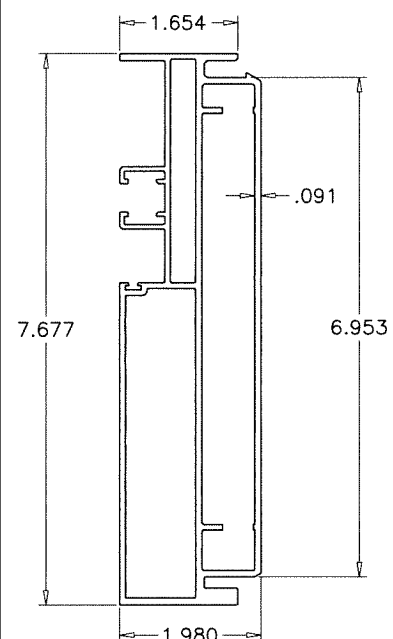
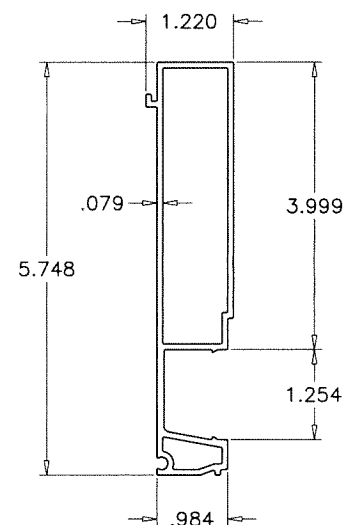
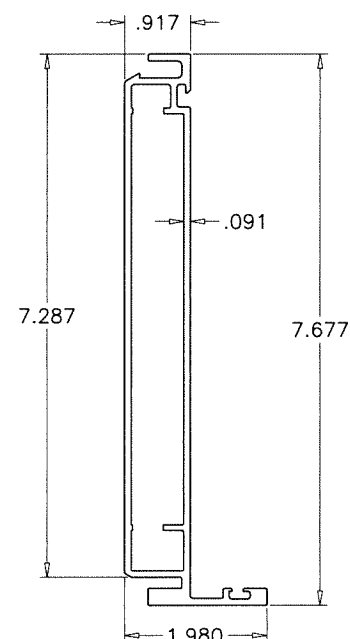
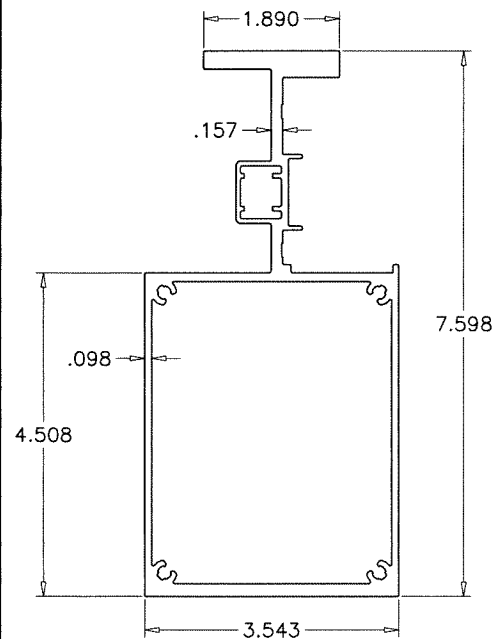
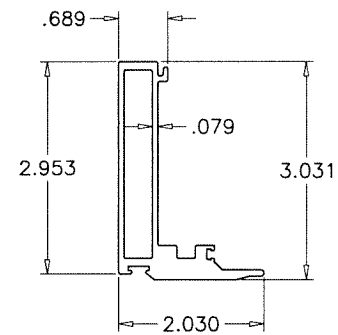
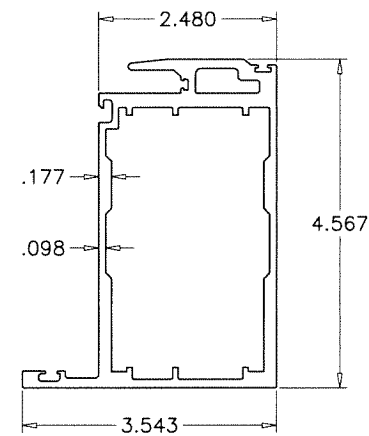
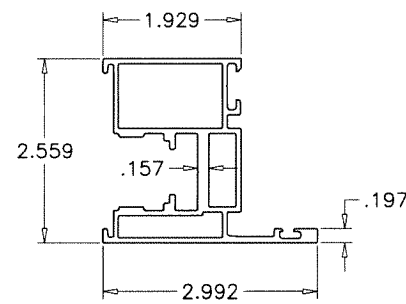
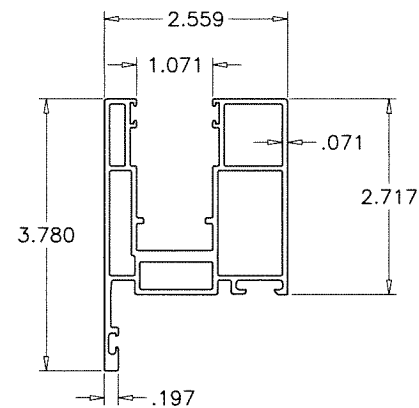
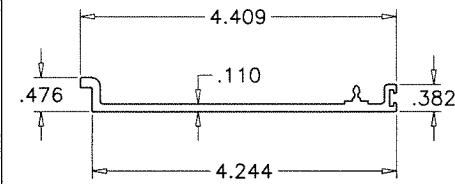
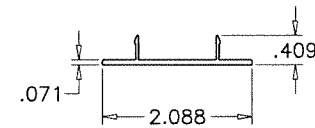
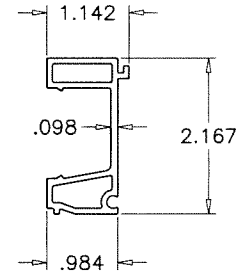
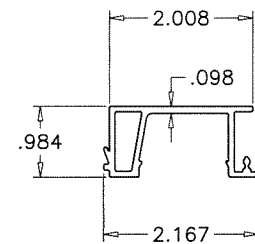
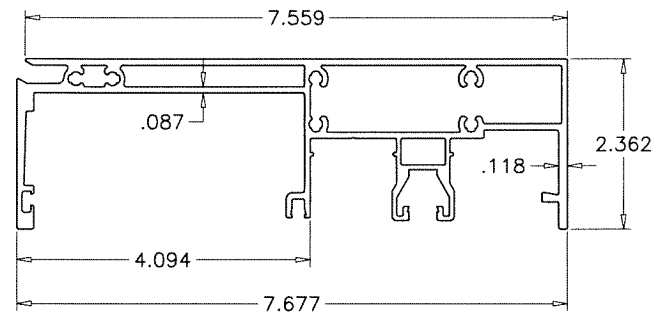
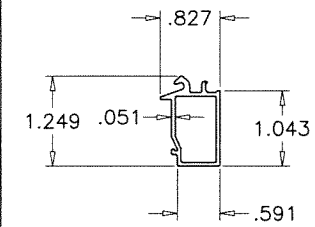
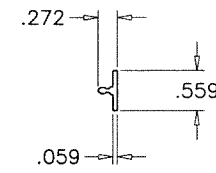
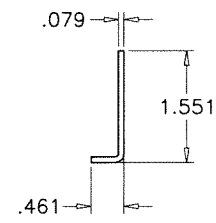
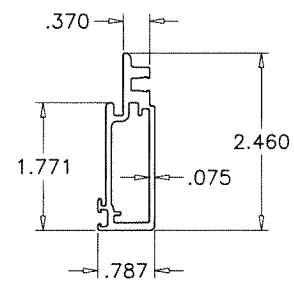
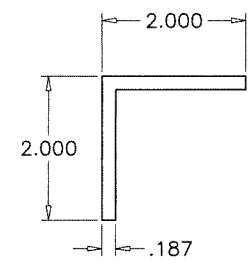
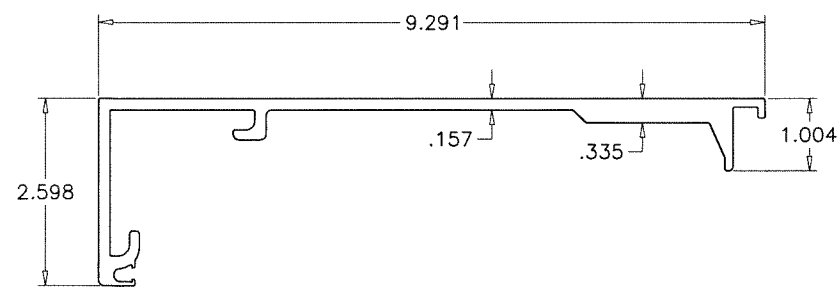
dr. by: TARIQ

chk. by:

drawing no.

**19-23F**

sheet 7 of 10



Sealed: 9/24/2026

FL #29516



**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-LS7035 ALUMINUM SLIDING GL. DOOR (L.M.I.)

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**E.S. WINDOWS, LLC**  
3550 N.W. 49 STREET  
MIAMI, FL. 33142

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TEL. (305) 638-5151 FAX. (305) 638-5158

[illegible]

|                              |                    |               |          |
|------------------------------|--------------------|---------------|----------|
| date: 03-30-19               | scale: $3/8" = 1"$ | dr. by: TARIQ | chk. by: |
| drawing no.<br><b>19-23F</b> |                    |               |          |
| sheet <b>8</b> of <b>10</b>  |                    |               |          |

| ITEM NO. | PART NUMBER   | QUANTITY | DESCRIPTION                                      | MATERIAL  | MANF./SUPPLIER/REMARKS |
|----------|---------------|----------|--------------------------------------------------|-----------|------------------------|
| 1        | ES-LS7035-005 | AS REQD. | HEAD RECEPTOR                                    | 6063-T6   | -                      |
| 2        | ALU-A-028     | AS REQD. | RECEPTOR REINF. 20" LONG AT MULLION LOCATION     | 6063-T6   | -                      |
| 3        | ES-LS7035-009 | AS REQD. | RECEPTOR INSERT                                  | 6063-T6   | -                      |
| 4        | -             | AS REQD. | INSERT REINFORCING                               | 6063-T6   | -                      |
| 5        | ES-LS7035-019 | AS REQD. | INSERT CLIP                                      | 6063-T6   | -                      |
| 6        | ES-LS7035-008 | AS REQD. | FRAME HEAD/SILL                                  | 6063-T6   | -                      |
| 7        | ES-LS7035-015 | AS REQD. | HORIZONTAL GLASS STOP                            | 6063-T6   | -                      |
| 8        | ES-LS7035-014 | AS REQD. | VERTICAL GLASS STOP                              | 6063-T6   | -                      |
| 9        | ES-LS7035-020 | AS REQD. | GLASS STOP COVER                                 | 6063-T6   | -                      |
| 10       | ES-LS7035-023 | AS REQD. | GLASS STOP COVER                                 | 6063-T6   | -                      |
| 11       | ES-LS7035-018 | AS REQD. | TOP/BOTTOM RAIL & LOCK STILE                     | 6063-T6   | -                      |
| 12       | ES-LS7035-017 | AS REQD. | INTERIOR INTERLOCK                               | 6063-T6   | -                      |
| 13       | ES-LS7035-010 | AS REQD. | EXTERIOR INTERLOCK                               | 6063-T6   | -                      |
| 14       | ES-LS7035-012 | AS REQD. | INTERLOCK STIFFENER                              | 6063-T6   | -                      |
| 15       | ES-LS7035-022 | AS REQD. | ASTRAGAL STILE                                   | 6063-T6   | -                      |
| 16       | ES-LS7035-001 | AS REQD. | FRAME JAMB (FIX.)                                | 6063-T6   | -                      |
| 16A      | ES-LS7035-033 | AS REQD. | ALT. FRAME JAMB                                  | 6063-T6   | -                      |
| 17       | ES-LS7035-016 | AS REQD. | GLASS STOP (FIXED)                               | 6063-T6   | -                      |
| 18       | ES-LS7035-007 | AS REQD. | FRAME JAMB (MOV.)                                | 6063-T6   | -                      |
| 18A      | ES-LS7035-032 | AS REQD. | ALT. FRAME JAMB (MOV.)                           | 6063-T6   | -                      |
| 19       | ES-LS7035-021 | AS REQD. | PANEL GLASS STOP                                 | 6063-T6   | -                      |
| 20       | -             | AS REQD. | GLAZING GASKET                                   | EPDM      | DUROMETER 65±5 SHORE A |
| 21       | -             | AS REQD. | RECEPTOR INTERIOR GASKET                         | SILICONE  | DUROMETER 65±5 SHORE A |
| 22       | -             | AS REQD. | RECEPTOR EXTERIOR GASKET                         | SILICONE  | DUROMETER 65±5 SHORE A |
| 23       | -             | AS REQD. | LEAF W'STRIPPING                                 | VINYL     | -                      |
| 24       | -             | AS REQD. | FIN SEAL PILE W'STRIPPING                        | WOOL      | -                      |
| 25       | -             | AS REQD. | LEAF W'STRIPPING AT INTERLOCK                    | VINYL     | -                      |
| 26       | -             | AS REQD. | LEAF W'STRIPPING AT BOTTOM RAIL & LOCK STILE     | VINYL     | -                      |
| 27       | -             | AS REQD. | SETTING BLOCK (FIXED)                            | EPDM      | DUROMETER 80±5 SHORE A |
| 27A      | -             | AS REQD. | SETTING BLOCK (PANEL)                            | EPDM      | DUROMETER 80±5 SHORE A |
| 28       | -             | AS REQD. | ROLLER ASSEMBLY                                  | -         | -                      |
| 29       | -             | AS REQD. | ROLLER TRACK                                     | STEEL     | -                      |
| 30       | #12 X 1"      | AS REQD. | FRAME ASSEMBLY SCREWS                            | ST. STEEL | PH SMS                 |
| 31       | #12 X 1"      | AS REQD. | RECEPTOR INSERT FASTENERS                        | ST. STEEL | FH SMS                 |
| 32       | #10 X 1/2"    | AS REQD. | GLASS STOP FASTENERS, AT 3" FROM ENDS & 10" O.C. | ST. STEEL | PH SMS                 |
| 33       | #10 X 1/2"    | AS REQD. | STIFFENER FASTENERS, AT 3" FROM ENDS & 10" O.C.  | ST. STEEL | PH SMS                 |
| 34       | #10 X 1/2"    | AS REQD. | ASTRAGAL FASTENERS, AT 3" FROM ENDS & 10" O.C.   | ST. STEEL | FH SMS                 |

SEALANT:

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

LOCKS:

OPTION #1

SURFACE MOUNT METALLIC THREE PLY DUAL HOOK LOCK AT 36" FROM BOTTOM  
FASTENED TO LOCK STILE WITH  
(2) #10 X 1-1/2" FH SELF DRILLING SCREWS  
  
SURFACE MOUNT METALLIC KEEPER FACING LOCK AT 38" FROM BOTTOM  
FASTENED WITH  
(2) #10 X 1-1/2" FH SMS

OPTION #2

SURFACE MOUNT METALLIC 3 POINT LOCK AT 36" FROM BOTTOM  
FASTENED TO LOCK STILE WITH  
(2) #10 X 1-1/2" FH SELF DRILLING SCREWS  
  
SURFACE MOUNT METALLIC KEEPER FACING LOCK AT 38" FROM BOTTOM  
FASTENED WITH  
(2) #10 X 1-1/2" FH SMS

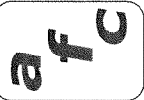
OPTION #3

LOCK (279194) WITH LATCH (241849) AND RETAINING CATCH (241850) AT 36" FROM BOTTOM  
SHOOT BOLT (461220) ENGAGING AT SILL

Sealed: 9/24/2026



FL #29516



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revisions:

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

date: 03-30-19

scale: 3/8" = 1"

dr. by: TARIQ

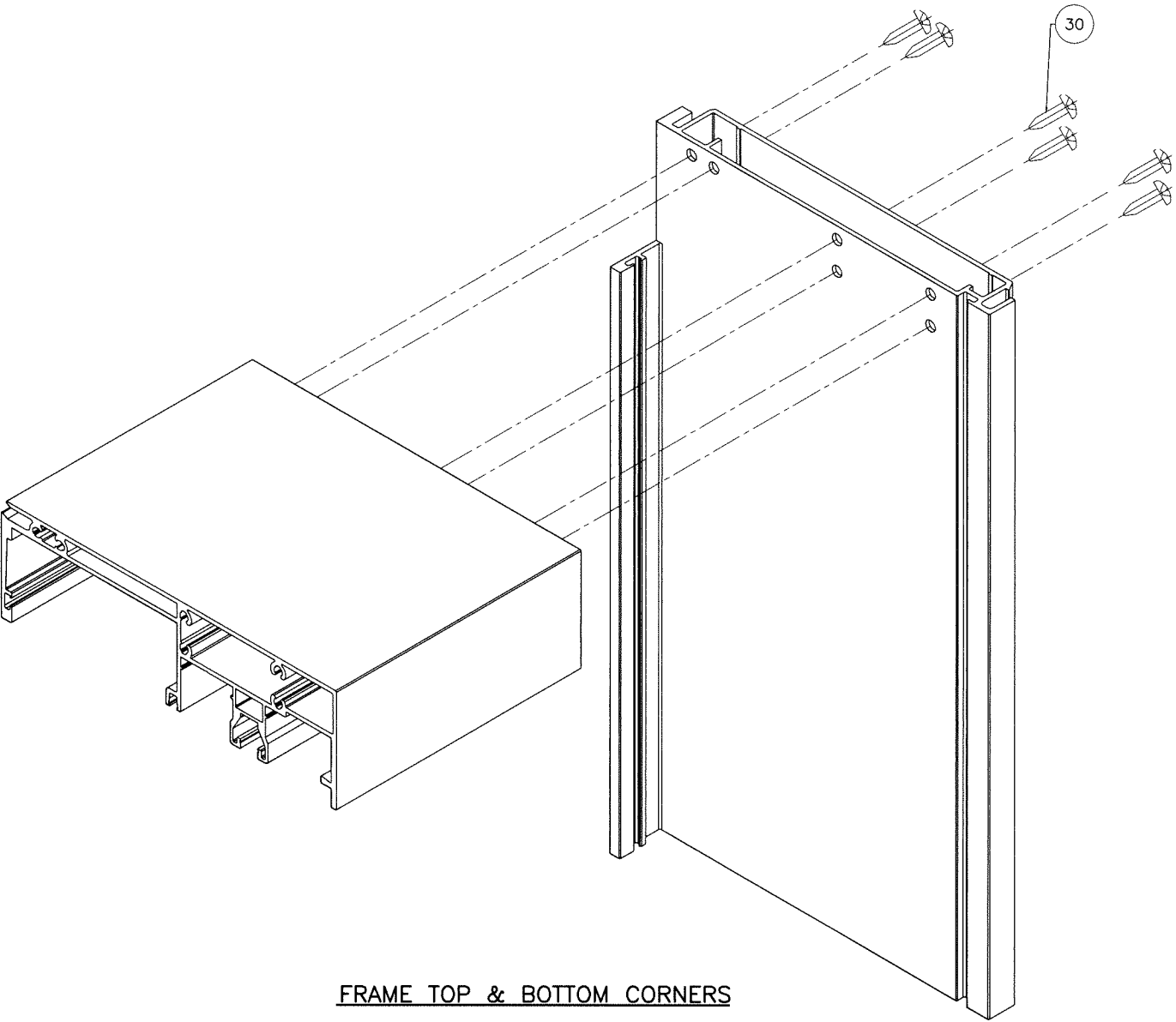
chk. by:

drawing no.

**19-23F**

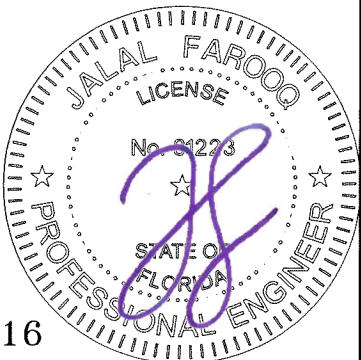
sheet 9 of 10

COMP-ANL\19-23F-ES



FRAME TOP & BOTTOM CORNERS

Sealed: 9/24/2026



FL #29516

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**19-23F**

sheet 10 of 10

  
COMP-ANL 19-23F-ES