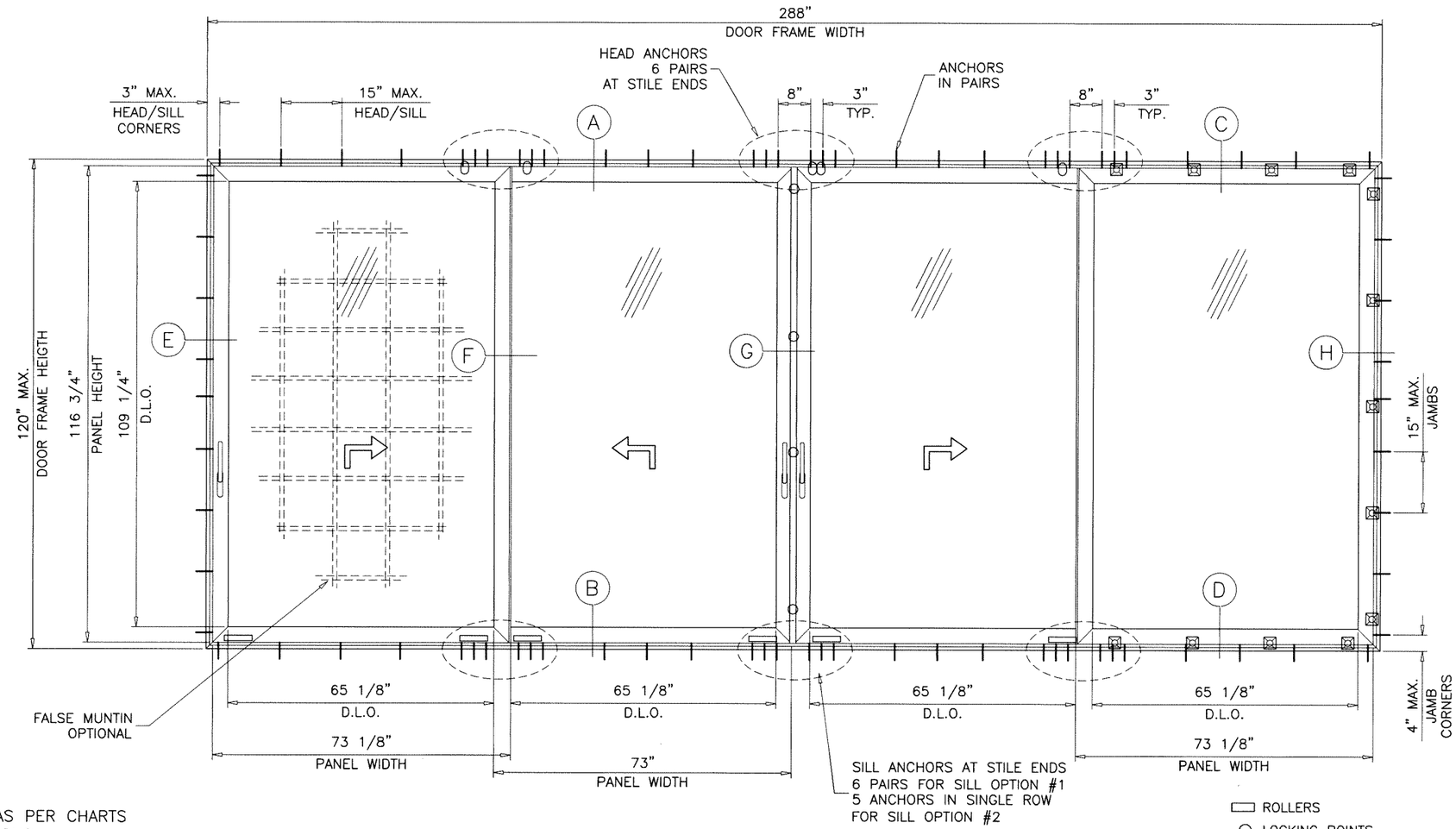

TYPICAL ELEVATION
TESTED UNIT

SERIES S700
LIFT & SLIDE ALUMINUM GLASS DOOR

DESIGN LOAD RATING FOR THESE DOORS TO BE AS PER CHARTS SHOWN ON SHEET 2 AND APPROVED CONFIGURATIONS SHOWN ON SHEET 3.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2020 (7TH EDITION)/2023 (8TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

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

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

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2020/2023 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

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

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

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

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

Sealed: 10/23/2023

FL #44181

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.

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AL-FAROOQ CORPORATION
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FBPE #3538
COMP-ANL\23-27F-AA1

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Tel. +30 231 301 1000 www.alumil.com

SERIES S700 LIFT & SLIDE ALUM DOOR (L.M.I.)

revisions:

no	date	by	description

date: 06-05-23
scale: 3/8"=1'-0"
dr. by: TARIQ
chk. by:

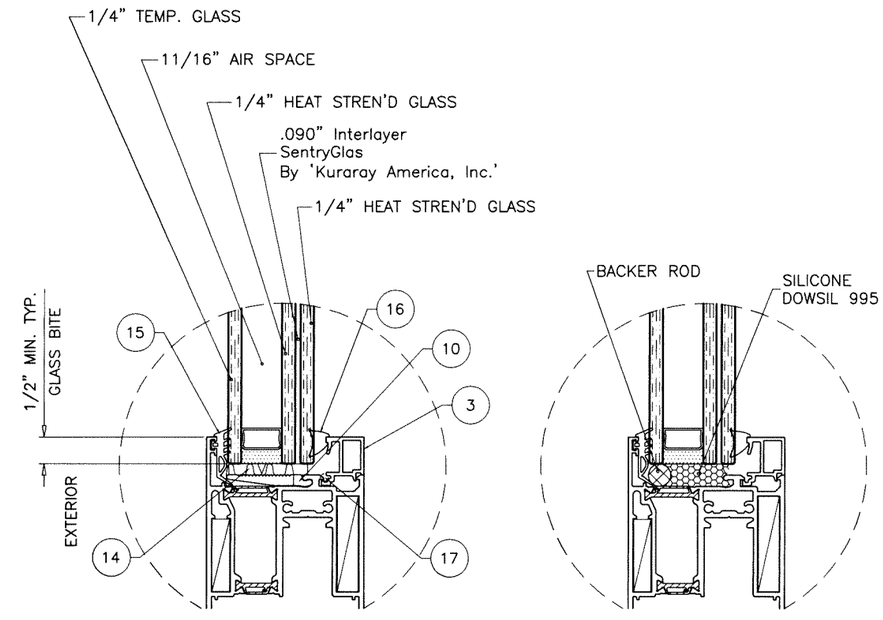
drawing no. 23-27F

sheet 1 of 7

DESIGN LOAD CAPACITY – PSF			
AVERAGE PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	INSUL. LAM. GLASS	
		EXT.(+)	INT.(–)
30	108	60.0	60.0
36		60.0	60.0
42		60.0	60.0
48		60.0	60.0
54		60.0	60.0
60		60.0	60.0
66		60.0	60.0
72		60.0	60.0
78		60.0	60.0
30	120	60.0	60.0
36		60.0	60.0
42		60.0	60.0
48		60.0	60.0
54		60.0	60.0
60		60.0	60.0
66		60.0	60.0
72		60.0	60.0

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

$$\text{AVERAGE PANEL WIDTH} = \frac{\text{DOOR FRAME WIDTH}}{\text{NUMBER OF PANELS}}$$



GLAZING DETAIL
1–7/16" OVERALL INSUL. LAM. GLASS

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

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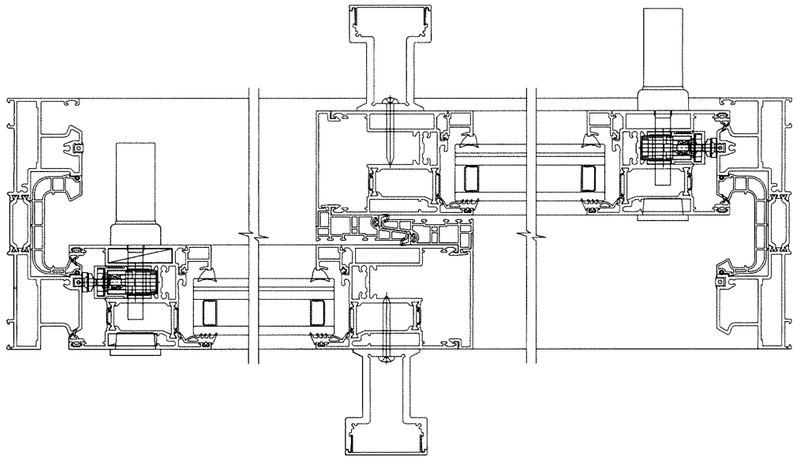
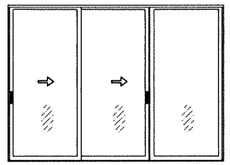
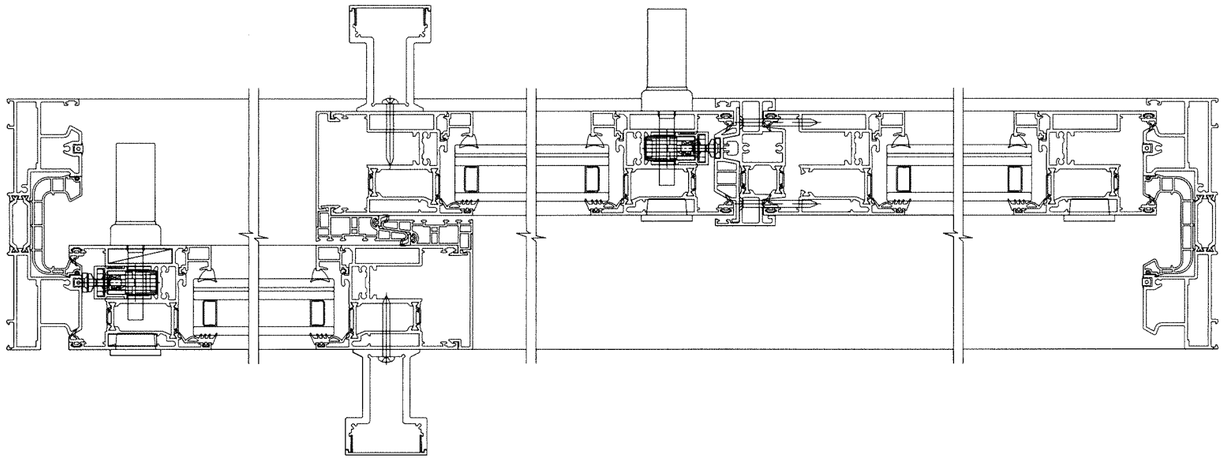
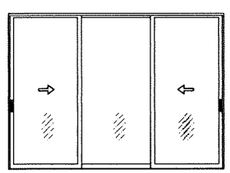
XX (SHOWN)
OX
XO





XXO (SHOWN)
OXX
XXX
OXO





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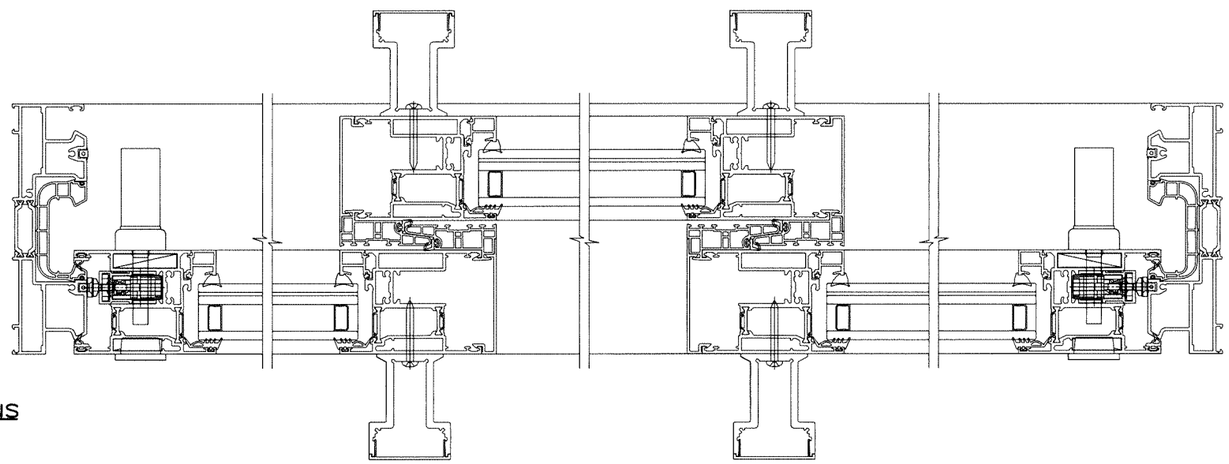

APPROVED CONFIGURATIONS

NOTE:

1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
2. FOR APPLICABLE DESIGN PRESSURES SEE SHEETS 2.
3. FOR ANCHOR DETAILS SEE SHEETS 4 THRU 6.

Sealed: 10/23/2023

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revisions:

no	date	by	description

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scale: -
dr. by: TARIQ
chk. by:

drawing no. 23-27F

NOTE:

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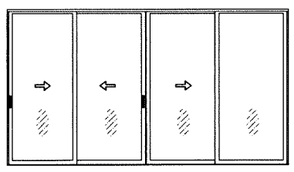
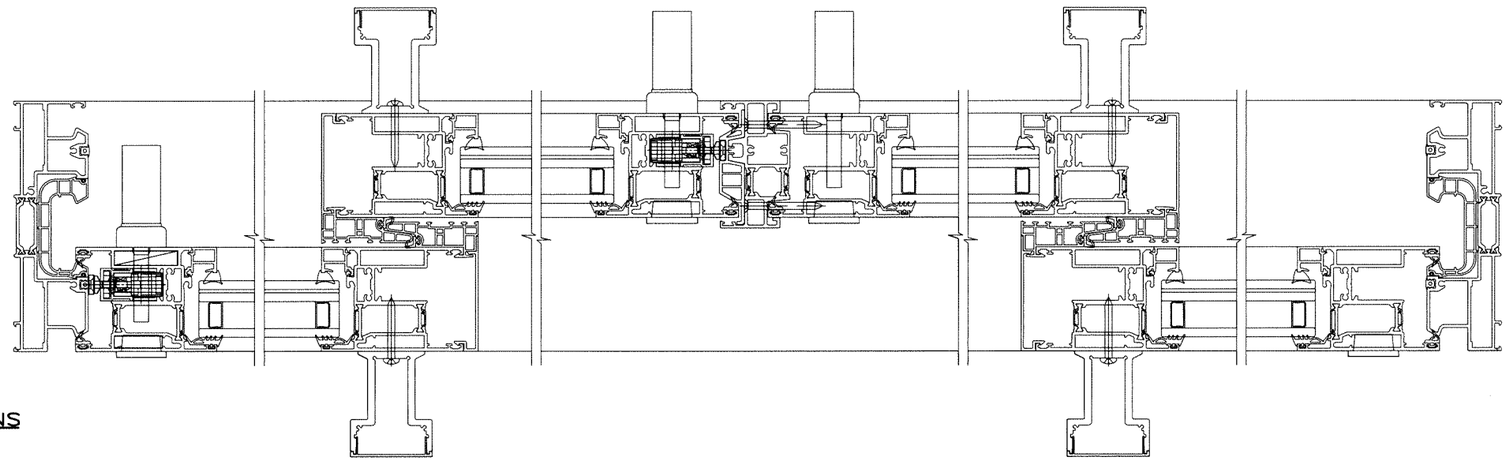


XXXO (SHOWN)
OXXX
OXXO



APPROVED CONFIGURATIONS

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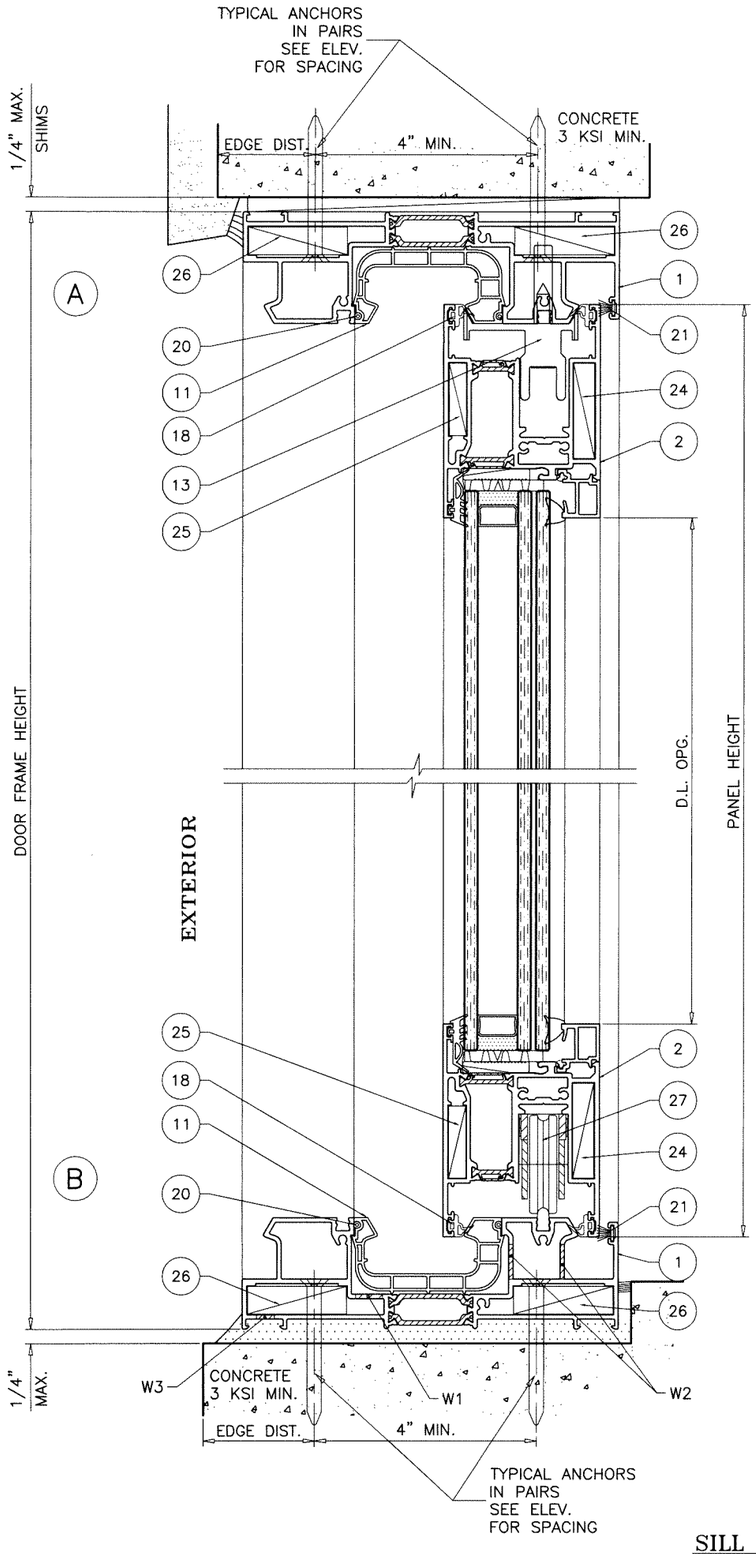
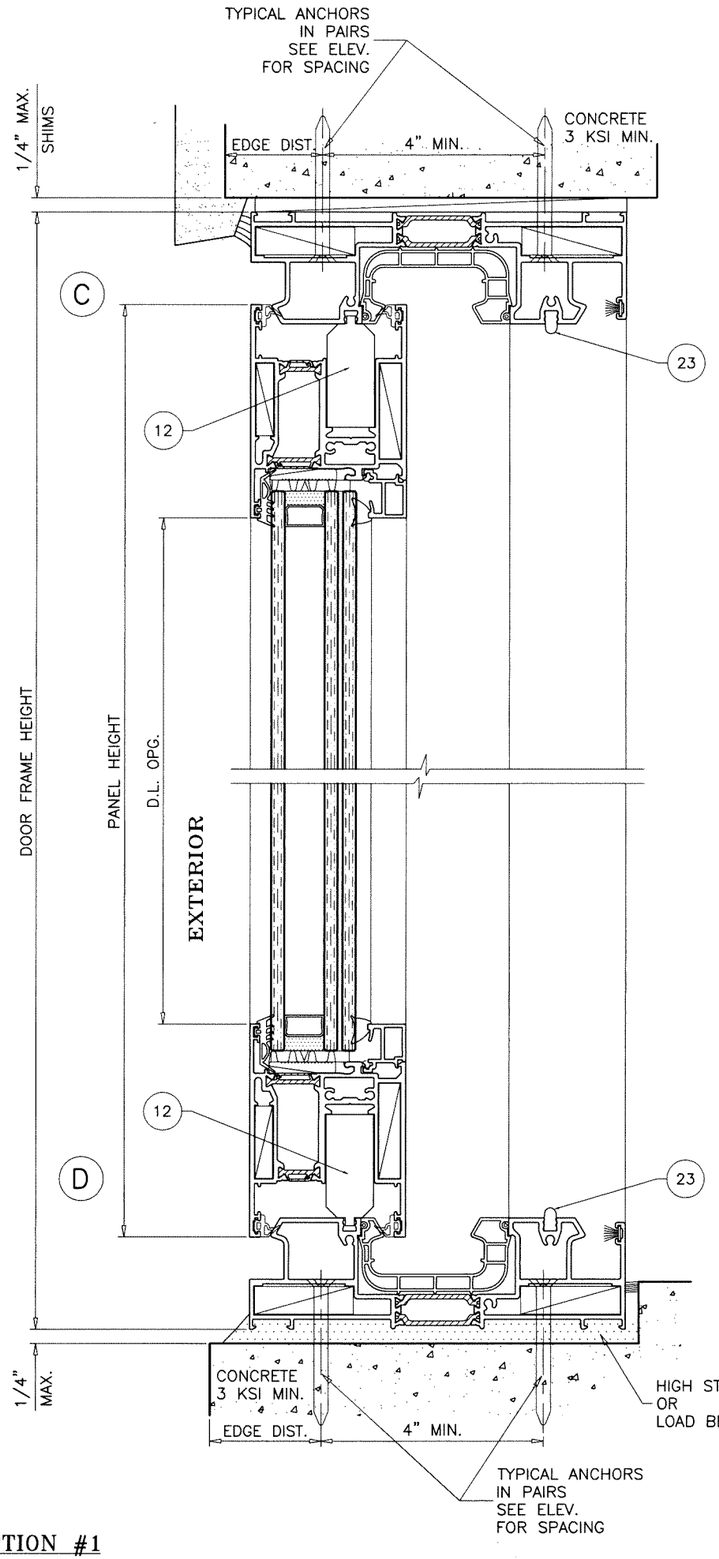


SILL OPTION #1



WEEPHOLES:

W1 = 1/2" DIA. HOLES AT 6" FROM EACH END AND 5-1/2" O.C.

W2 = .6" X .6" WEEP SLOTS AT EACH END

W3 = 5/16" X 1-1/4" WEEP SLOTS AT 5" FROM EACH END AND 8" O.C.

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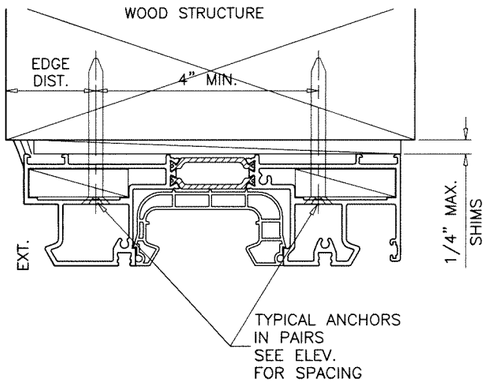
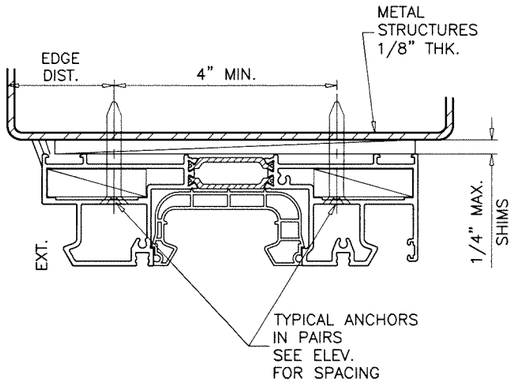
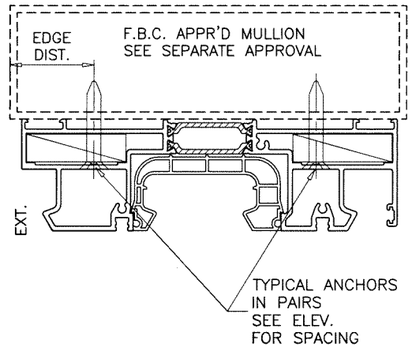
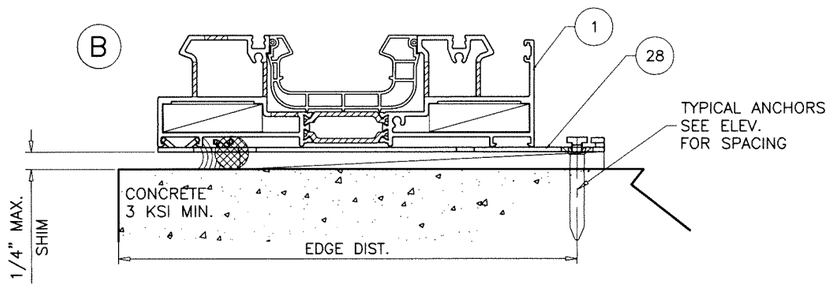
sheet 4 of 7







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



SILL OPTION #2

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/JAMBS)

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

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

1/4" DIA. TEKS OR SELF-DRILLING SCREWS (GRADE 5 CRS)

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

CRITICAL 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.

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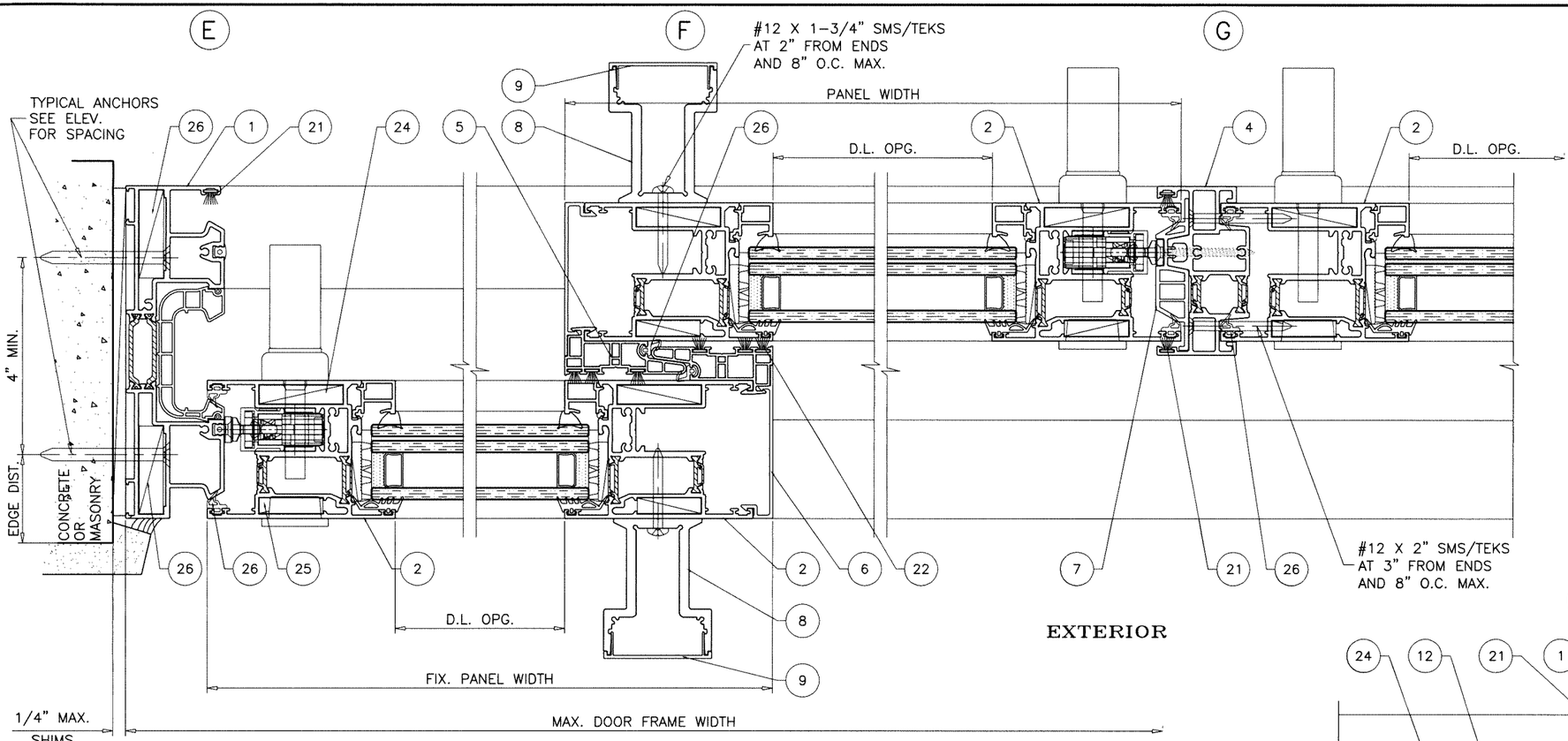
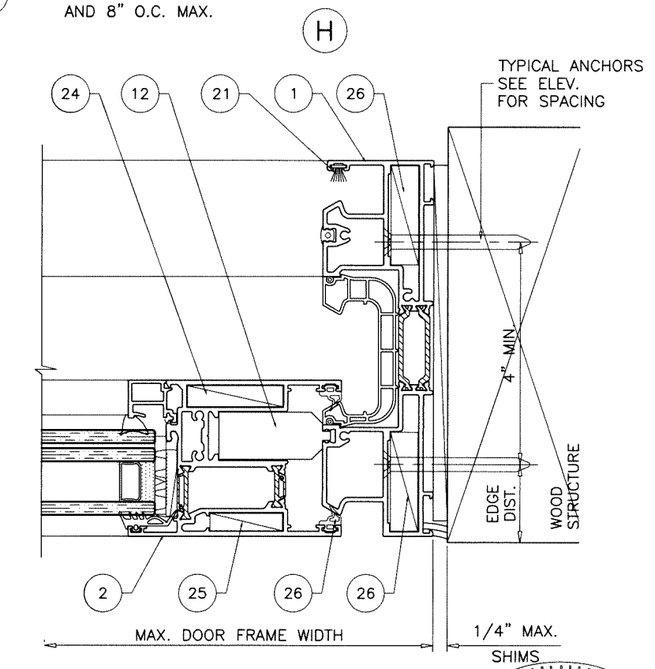
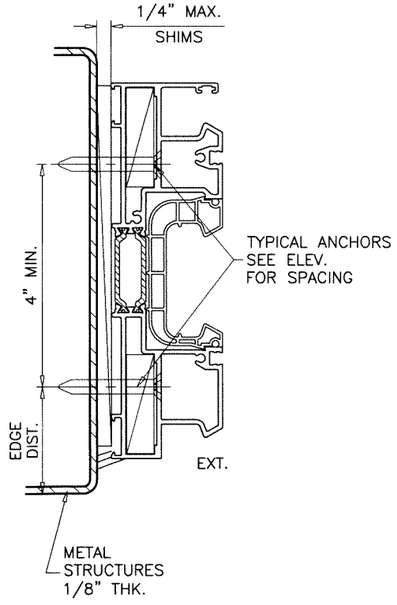
dr. by: TARIQ
chk. by:

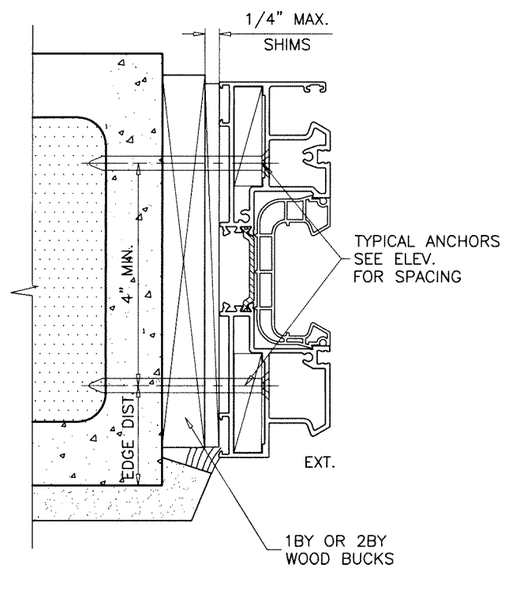
drawing no. 23-27F



EXTERIOR







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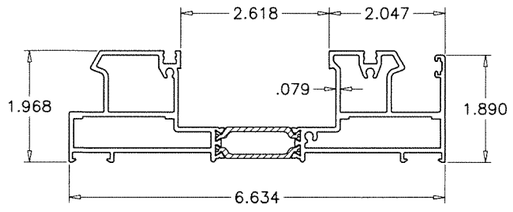
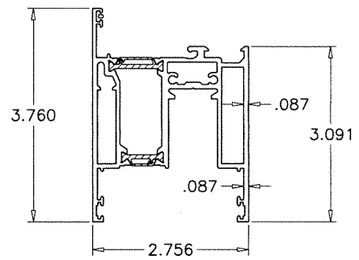
sheet 6 of 7



1 DOOR FRAME



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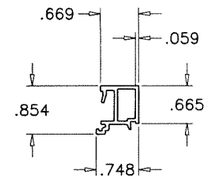
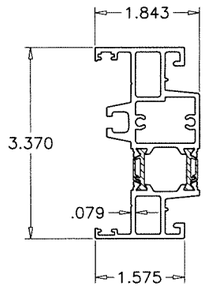
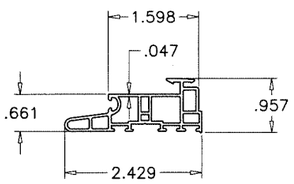


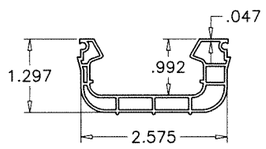
3 GLAZING BEAD



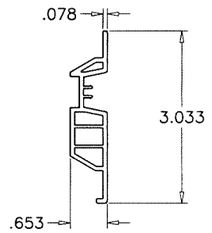
4 ASTRAGAL STILE



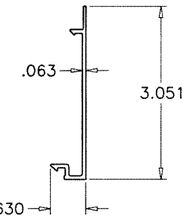
5 INTERLOCK



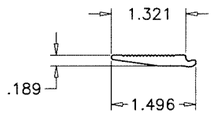
11 FRAME WATER COLLECTOR



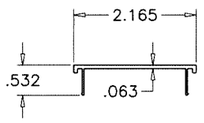
7 INVERTION PROFILE



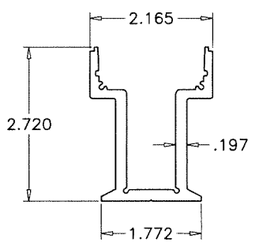
6 INTERLOCK COVER



10 GLASS SUPPORT



9 REINF. CAP



8 INTERLOCK REINF.

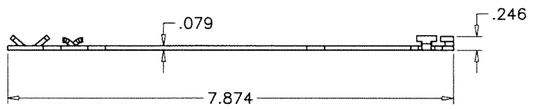
ITEM #	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	S70702	1	DOOR FRAME	6060–T66	–
2	S70706	4/ PANEL	PANEL SASH	6060–T66	–
3	S70772	4/ PANEL	GLAZING BEAD	6060–T66	–
4	S70734	AS REQD.	ASTRAGAL	6060–T66	–
5	660–00–704–00	AS REQD.	INTERLOCK	6060–T66	–
6	S70704	AS REQD.	INTERLOCK COVER	6060–T66	–
7	600–00–734–00	AS REQD.	INVERTION PROFILE	PLASTIC	–
8	S70793	AS REQD.	INTERLOCK REINFORCEMENT	6060–T66	–
9	S70794	AS REQD.	REINFORCEMENT CAP	6060–T66	–
10	660–00–717–00	AS REQD.	GLASS SUPPORT	6060–T66	–
11	660–00–702–00	AS REQD.	FRAME WATER COLLECTOR	6060–T66	–
12	311–01–302–00	AS REQD.	FIXED SASH SPACER	6060–T66	–
13	415–70–060–00	AS REQD.	TOP MOUNT SASH HOLDER	6060–T66	–
14	290–00–005–00	AS REQD.	SETTING BLOCKS, AT 1/4 POINTS	6060–T66	–
15	200–70–005–03	4/ PANEL	EXTERIOR GLAZING GASKET	EPDM	–
16	200–09–006–01	4/ PANEL	INTERIOR GLAZING GASKET	EPDM	–
17	220–31–230–03	4/ PANEL	GLAZING BEAD GASKET	EPDM	–
18	240–70–002–03	AS REQD.	SASH GASKET	EPDM	–
19	240–00–462–01	AS REQD.	INTERLOCKING PROFILE GASKET	EPDM	–
20	240–70–004–03	AS REQD.	WATER COLLECTOR GASKET	EPDM	–
21	620–69–107–00	AS REQD.	FRAME W'STRIPPING	WOOL PILE	–
22	620–69–107–00	AS REQD.	INTERLOCK W'STRIPPING	WOOL PILE	–
23	660–00–613–00	AS REQD.	PANEL GUIDE	ST. STEEL	–
24	113–43–094–00	AS REQD.	DOUBLE CRIMP CORNER	6060–T66	–
25	113–33–078–00	AS REQD.	DOUBLE CRIMP CORNER	6060–T66	–
26	113–13–444–00	AS REQD.	DOUBLE CRIMP CORNER	6060–T66	–
27	415–48–800–00	2/ MOV. PANEL	ROLLER ASSEMBLY, AT 8" FROM ENDS	–	–
28	470–77–560–00	AS REQD.	ANCHOR CLIP AT SILL	GALV. STEEL	–
29	–	–	–	–	–

SEALANTS:

ALL FRAME AND PANEL CORNERS AND INSTALLATION SCREWS SEALED WITH CLEAR/ALUMINUM COLORED SEALANT.

INSULBARS

MATERIAL = POLYAMIDE
TENSILE STRENGTH = 13031 PSI
RATE OF BURN = .752 IN./MIN.
SELF IGNITION TEMP. = 793° F
FLASH IGNITION TEMP. – 781°C
SMOKE DENSITY = 1.63



28 ANCHOR CLIP AT SILL

Sealed: 10/23/2023

FL #44181

AL-FAROOQ CORPORATION
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SERIES S700 LIFT & SLIDE ALUM DOOR (L.M.I.)

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www.alumil.com

revisions:			
no	date	by	description

date: 06-05-23
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

drawing no. 23–27F

sheet 7 of 7