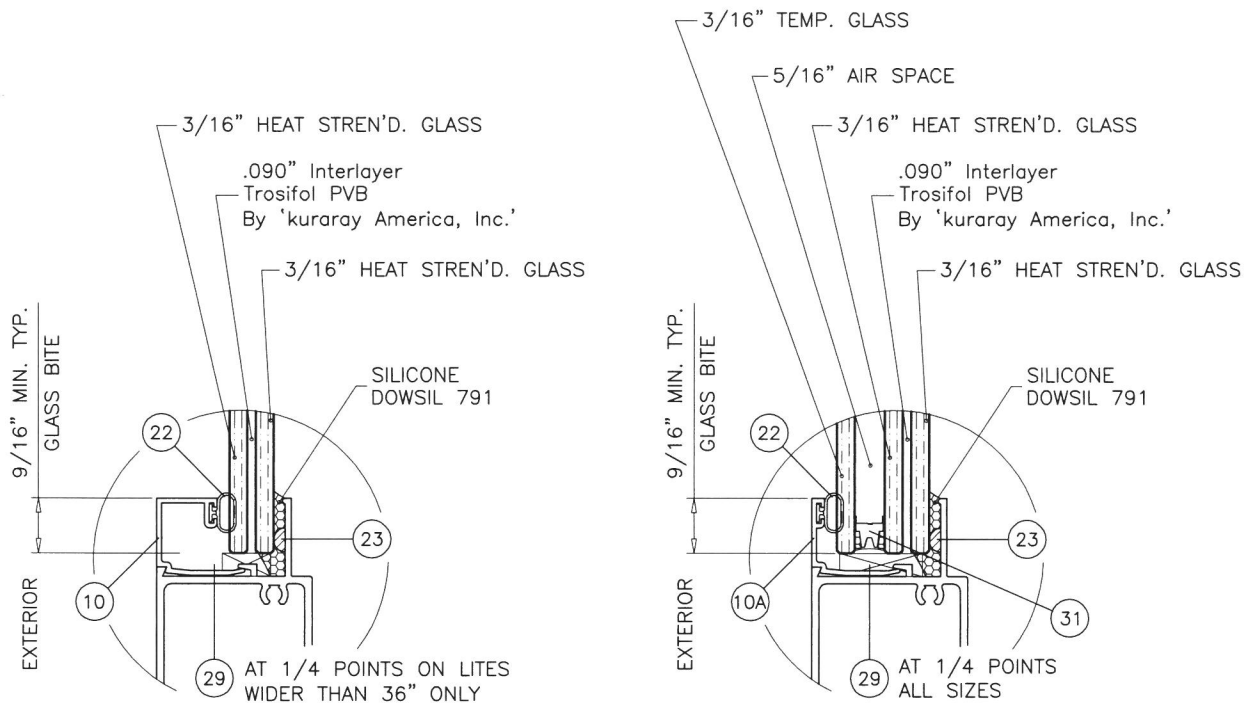




GLASS TYPE 'A'
7/16" OVERALL LAM. GLASS

GLASS TYPE 'A1'
15/16" OVERALL INSUL. LAM. GLASS

GLAZING OPTIONS

(SEE SHEET 2.1 FOR GLASS TYPE B)

SERIES-250

ALUMINUM HORIZONTAL ROLLING WINDOW

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

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

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

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2020 (7TH EDITION) 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.

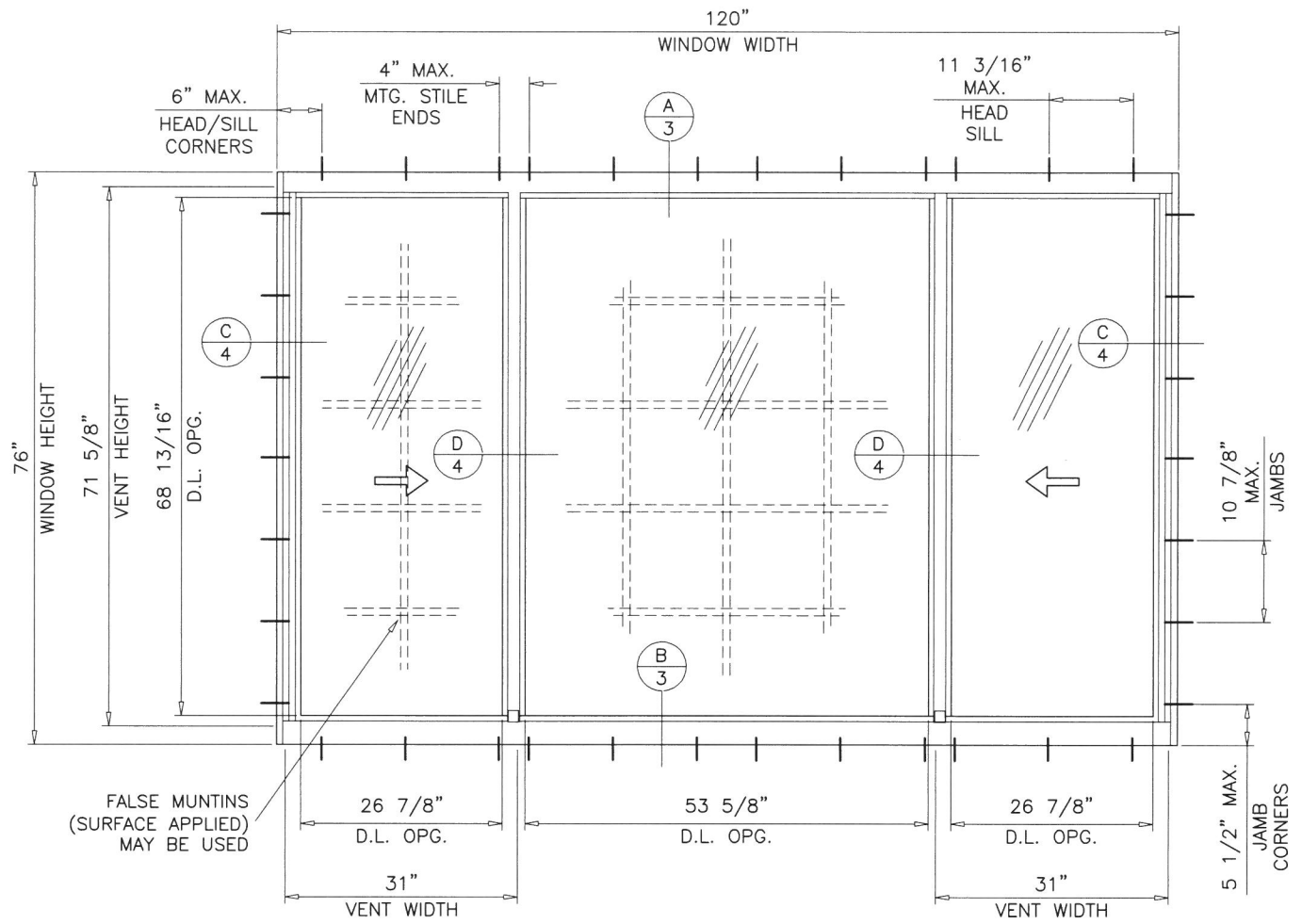
ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2020 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.



TYPICAL ELEVATION
(TESTED UNIT)

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

Sealed: 2/15/2021

FL #25670

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.



af c

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

SERIES-250 ALUM. HORIZ. ROLLING WDW. (L.M.I.)

ECO WINDOW SYSTEMS, LLC.
8502 N.W. 80th STREET
MEDLEY, FL. 33166
TEL. (305) 885-5299 FAX (305) 885-5902

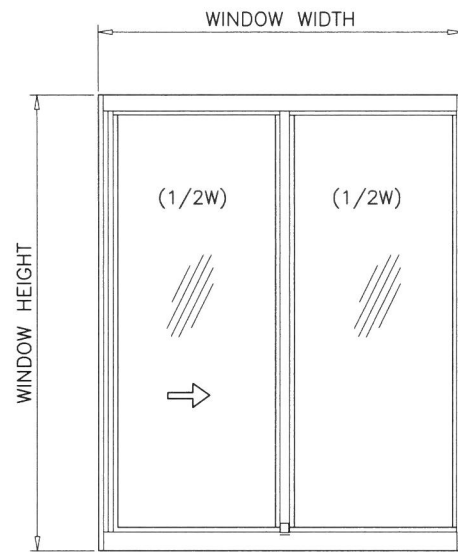
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B	01.14.21		NEW TEST ADDED

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dr. by: TARIQ
chk. by:

drawing no.
18-38F

sheet 1 of 7

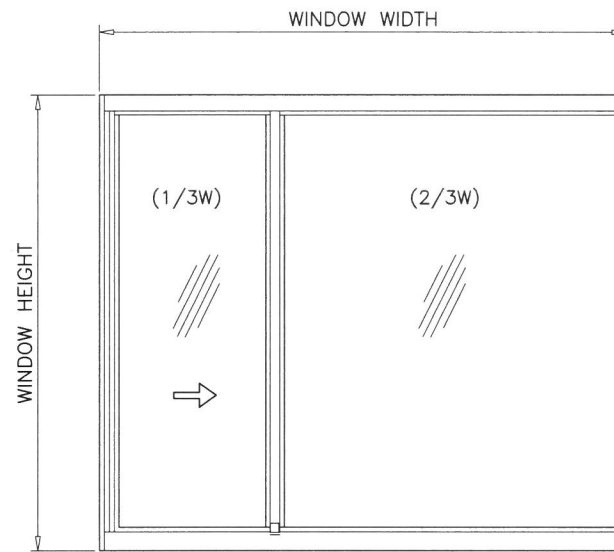
COMP-ANL\W17-75ECO



XO OR OX

LEFT & RIGHT VENTS TO BE OF EQUAL GLASS DLO WIDTHS

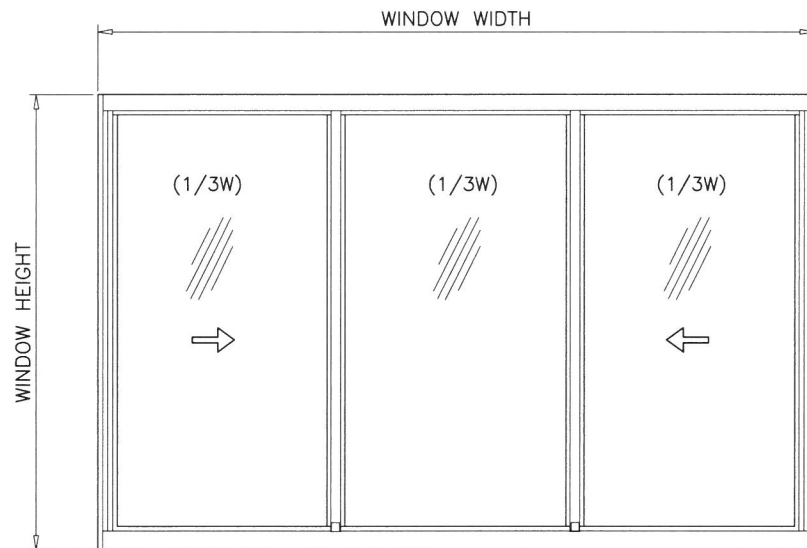
WINDOW DIMS.		MAX. D.L.O. WIDTHS	
WIDTH	HEIGHT	VENT	FIXED
84"	50-5/8"	38"	38"
74"	63"	33"	33"
64"	72"	28"	28"
61"	76"	26-1/2"	26-1/2"



XO OR OX

OPERATING VENT TO BE 1/3 OF THE WINDOW WIDTH

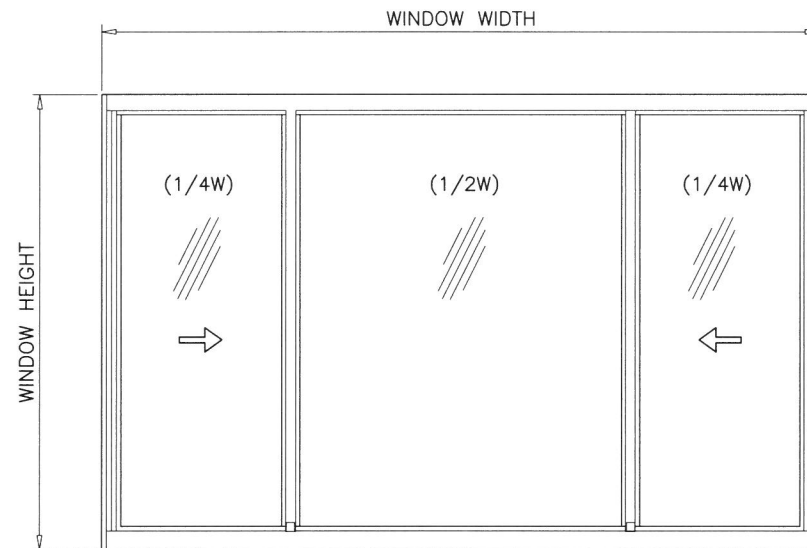
WINDOW DIMS.		MAX. D.L.O. WIDTHS	
WIDTH	HEIGHT	VENT	FIXED
120"	50-5/8"	37-5/16"	74-11/16"
106"	63"	32-11/16"	65-5/16"
93"	72"	28-5/16"	56-11/16"
88"	76"	26-11/16"	53-5/16"



XOX

OPERATING VENTS TO BE 1/3 OF THE WINDOW WIDTH

WINDOW DIMS.		MAX. D.L.O. WIDTHS	
WIDTH	HEIGHT	VENT	FIXED
120"	50-5/8"	35-13/16"	35-13/16"
113"	63"	33-7/16"	33-7/16"
99"	72"	28-13/16"	28-13/16"
92"	76"	26-7/16"	26-7/16"



XOX

OPERATING VENTS TO BE 1/4 OF THE WINDOW WIDTH

WINDOW DIMS.		MAX. D.L.O. WIDTHS	
WIDTH	HEIGHT	VENT	FIXED
144"	50-5/8"	32-7/8"	65-11/16"
144"	63"	32-7/8"	65-11/16"
126"	72"	28-3/8"	56-11/16"
120"	76"	26-7/8"	53-11/16"

GLASS TYPES 'A' & 'A1'

MAXIMUM DESIGN LOAD RATING = + 70.0 PSF
(FOR SIZES SHOWN ABOVE OR SMALLER) - 70.0 PSF

Sealed: 2/15/2021

FL #25670



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af c

SERIES-250 ALUM HORIZ. ROLLING WDW. (L.M.I.)

ECO WINDOW SYSTEMS, LLC.
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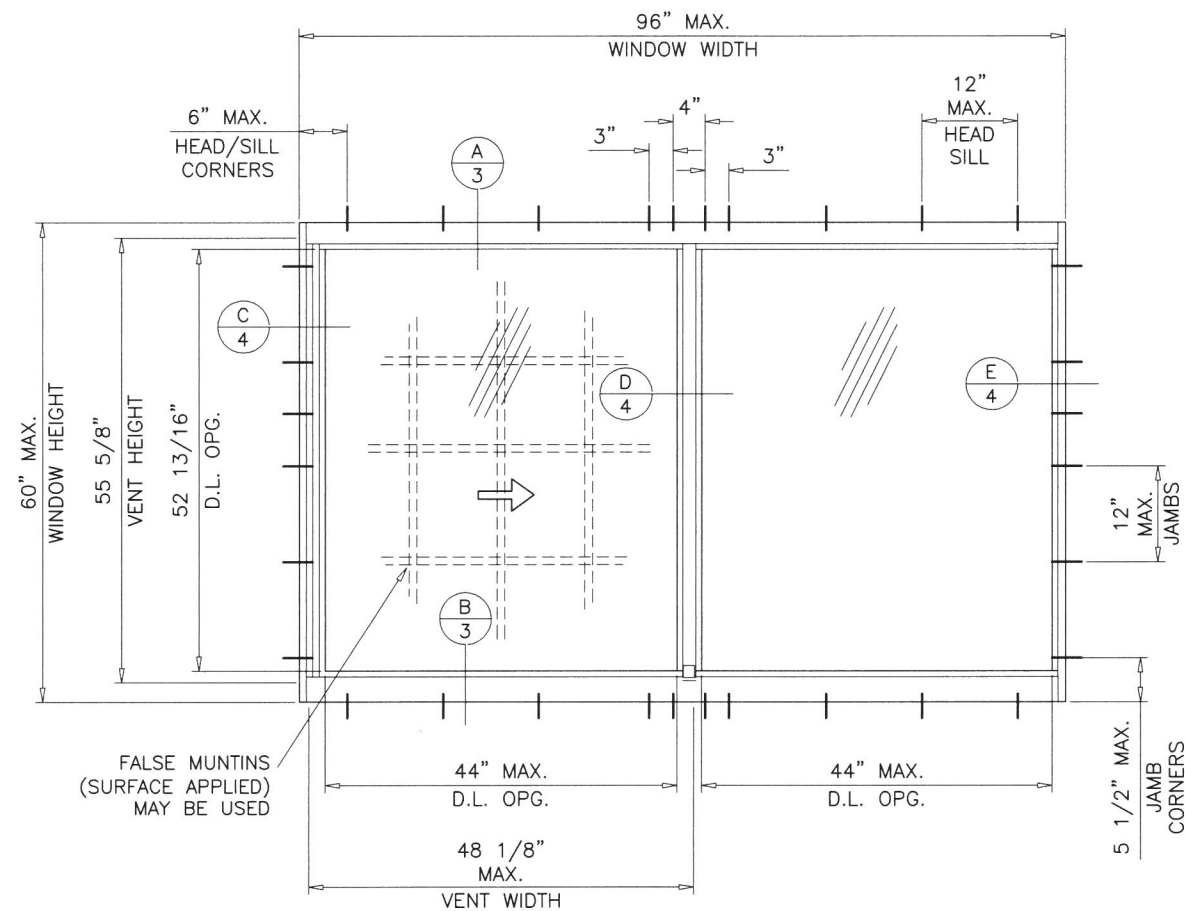
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no. date by description

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chk. by:

drawing no.
18-38F

sheet 2 of 7

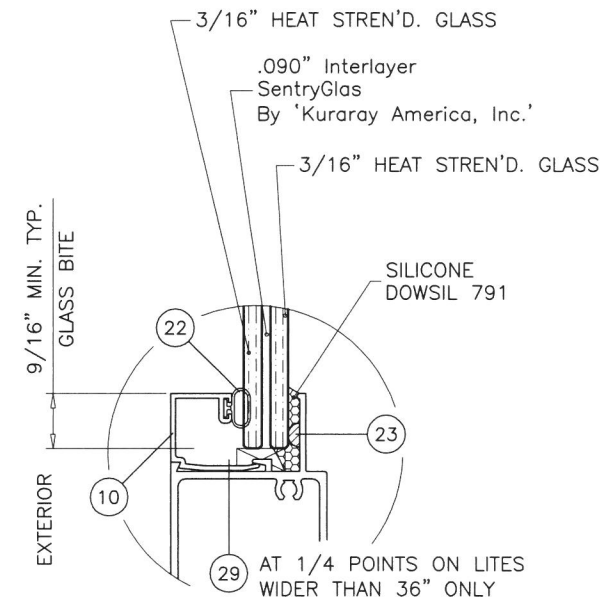
COMP-ANL\W17-75ECO



TYPICAL ELEVATION
(TESTED UNIT)

GLASS TYPE 'B'
MAXIMUM DESIGN LOAD RATING = + 80.0 PSF
 (FOR SIZES SHOWN ABOVE OR SMALLER) **- 90.0 PSF**

FRAME SILL WITH ADD-ON RISER (ITEM #13).
 LOCK TYPE 1 (ITEM #24) ONLY.
 XO SHOWN ON OPPOSITE.



GLASS TYPE 'B'
 7/16\"



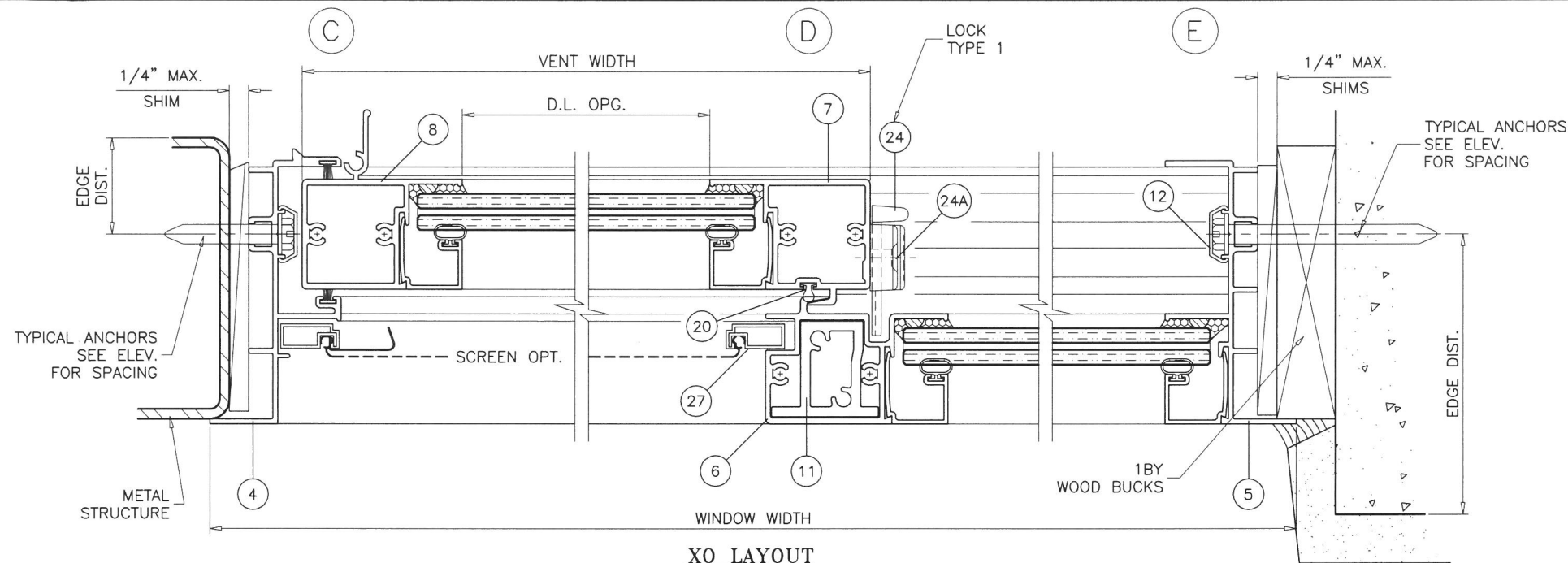
Sealed: 2/15/2021

FL #25670

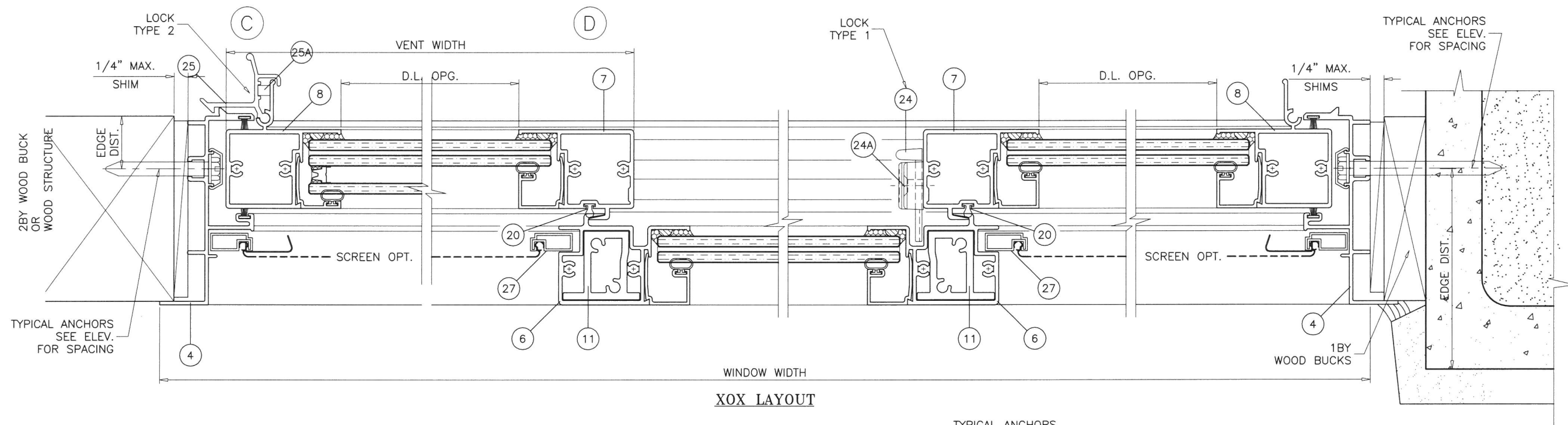
af c
AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 9360 SUNSET DRIVE, SUITE 220
 MIAMI, FLORIDA 33173 (C.A.N. 3538)
 TEL. (305) 264-8100 FAX. (305) 262-6978
 COMP-ANL\W17-75ECO

SERIES-250 ALUM. HORIZ. ROLLING WDW. (L.M.I.)
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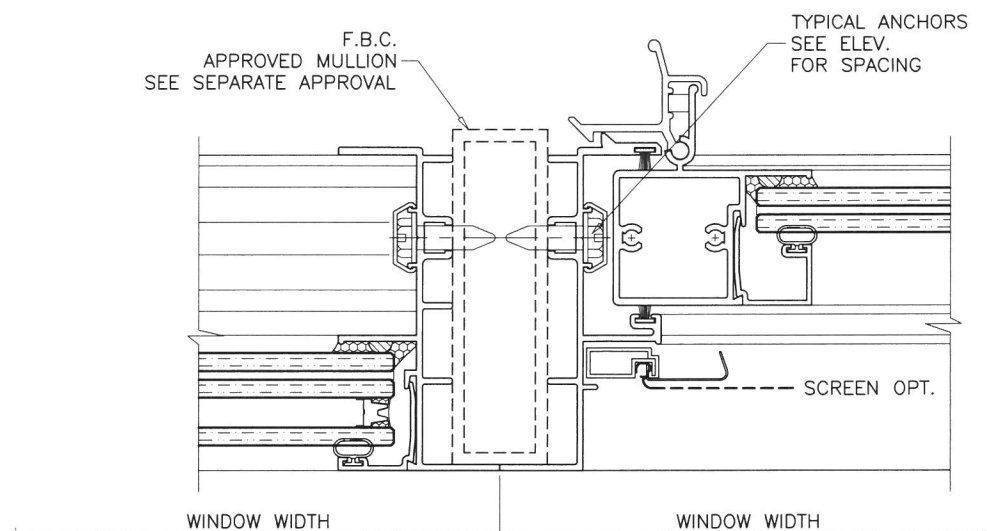
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dr. by:	TARIQ				
chk. by:					
drawing no.	18-38F				
sheet	2.1 of 7				



XO LAYOUT

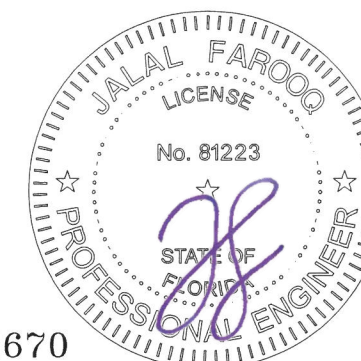


XOX LAYOUT



Sealed: 2/15/2021

FL #25670



af c

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revisions:		by description	
no.	date		

date: 04-04-18

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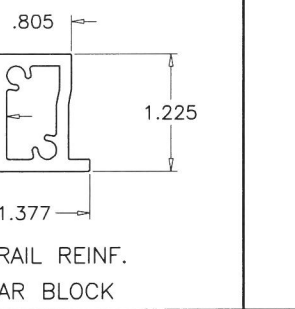
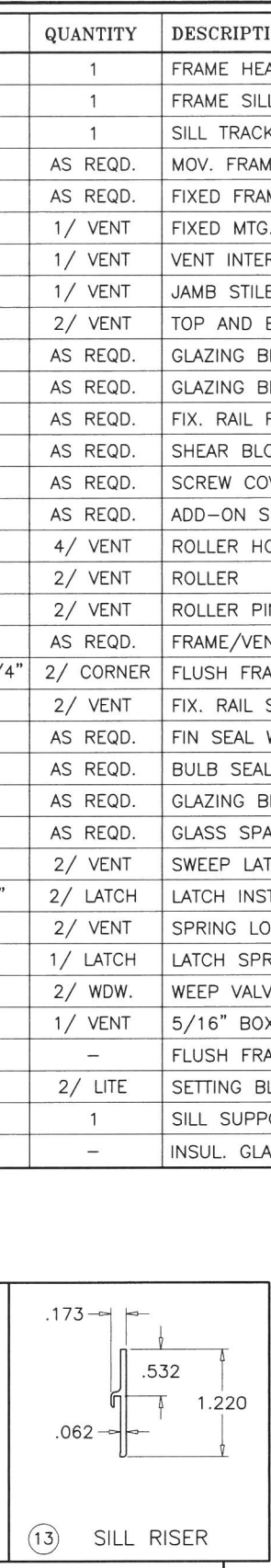
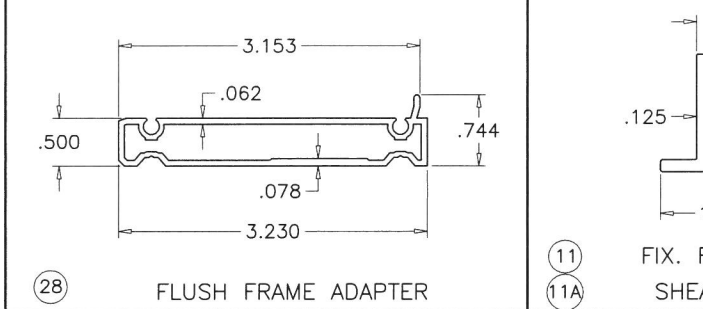
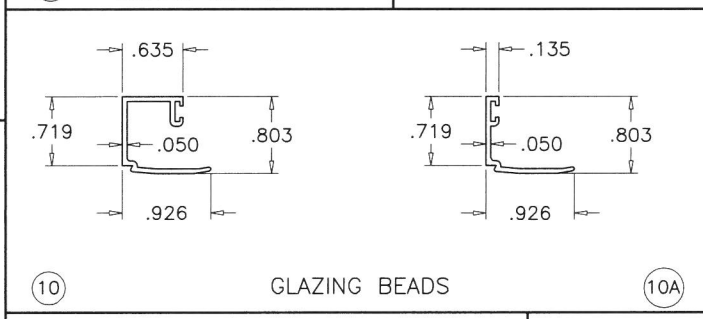
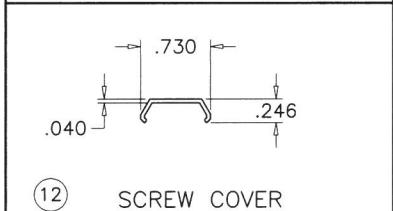
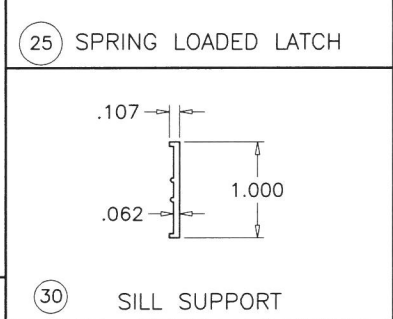
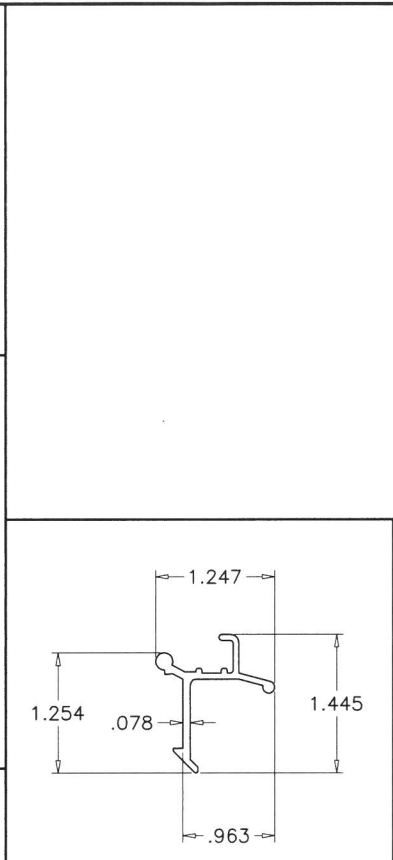
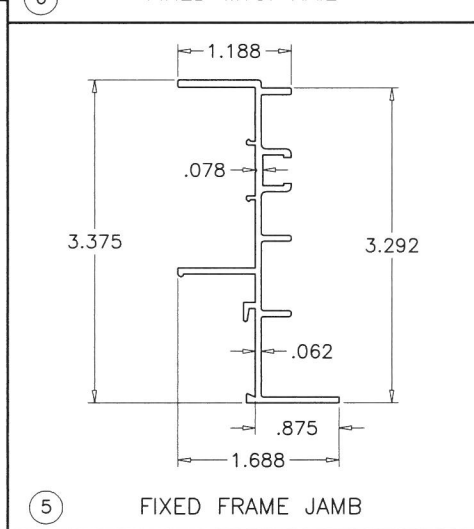
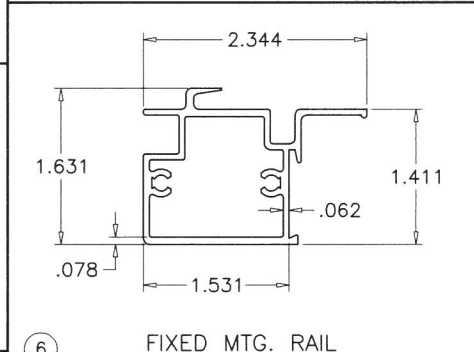
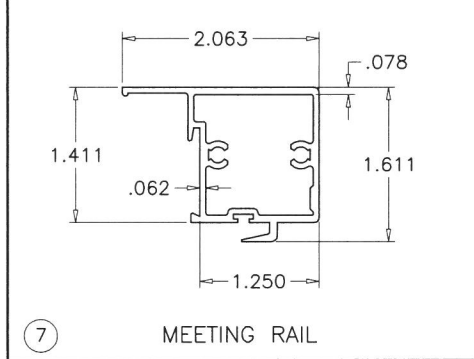
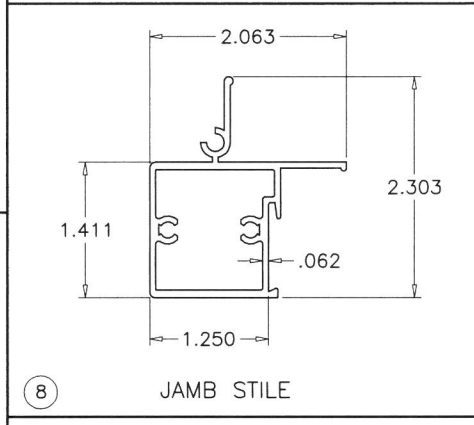
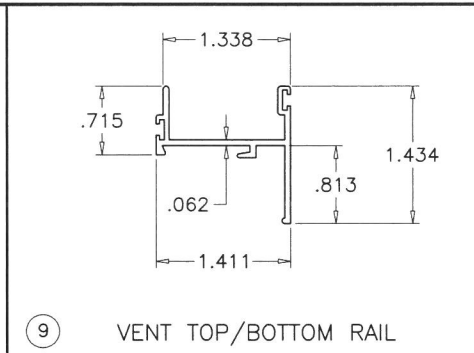
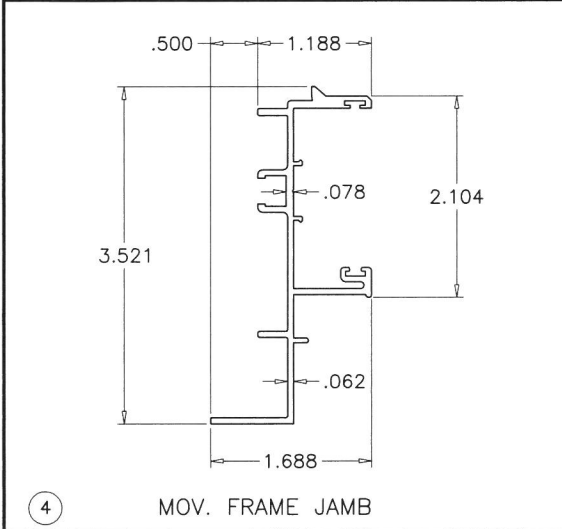
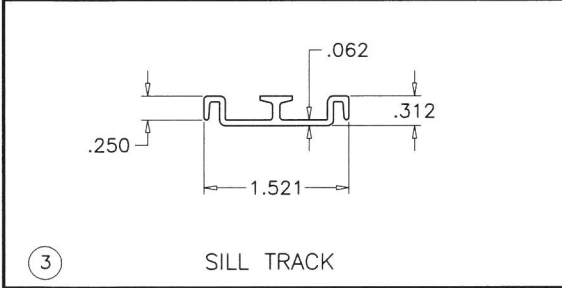
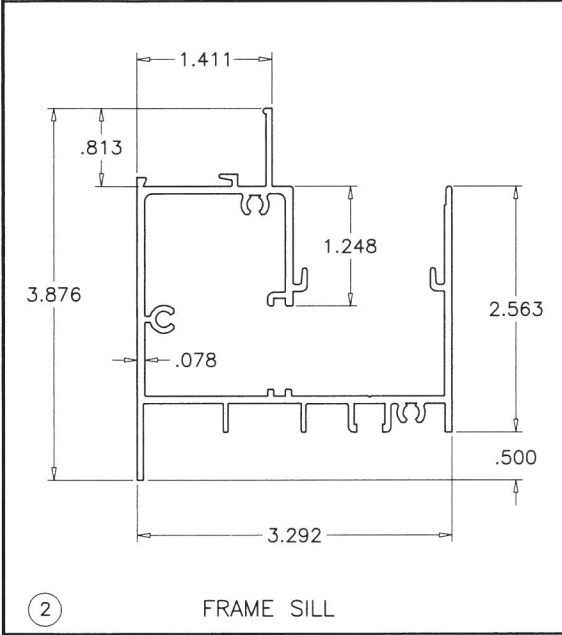
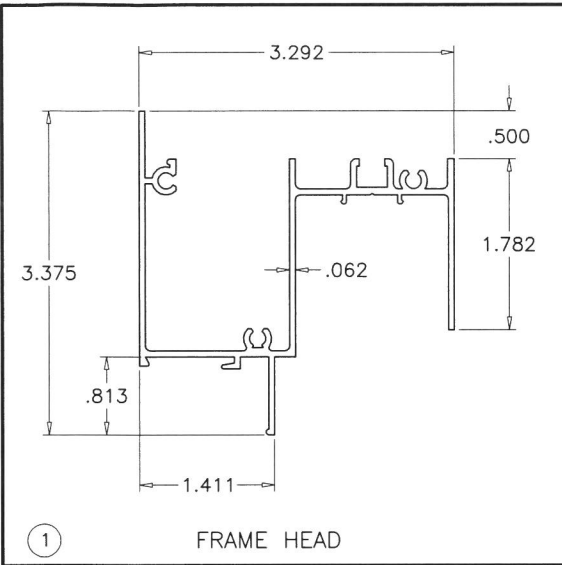
dr. by: TARIQ

chk. by:

drawing no.

18-38F

sheet 4 of 7



ITEM	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	E251	1	FRAME HEAD	6063-T6	-
2	E252	1	FRAME SILL	6063-T6	-
3	E255	1	SILL TRACK INSERT	6063-T6	-
4	E253	AS REQD.	MOV. FRAME JAMB	6063-T6	-
5	E151	AS REQD.	FIXED FRAME JAMB	6063-T6	-
6	E154	1/ VENT	FIXED MTG. RAIL	6063-T6	-
7	E155	1/ VENT	VENT INTERLOCK	6063-T6	-
8	E254	1/ VENT	JAMB STILE	6063-T6	-
9	E157	2/ VENT	TOP AND BOTTOM RAIL	6063-T6	-
10	E159	AS REQD.	GLAZING BEAD (LAM. GLASS)	6063-T6	-
10A	E158	AS REQD.	GLAZING BEAD (INSUL. LAM. GLASS)	6063-T6	-
11	E256	AS REQD.	FIX. RAIL REINF., FULL LENGTH	6063-T6	-
11A	E256	AS REQD.	SHEAR BLOCK, 2" LONG	6063-T6	-
12	E162	AS REQD.	SCREW COVER	PVC	-
13	E204	AS REQD.	ADD-ON SILL RISER	6063-T6	USE AS REQD.
14	E257	4/ VENT	ROLLER HOUSING & GUIDE	CELCON	-
15	FY209	2/ VENT	ROLLER	BRASS	-
16	FY210	2/ VENT	ROLLER PIN	ST. STEEL	-
17	#10 X 1"	AS REQD.	FRAME/VENT ASSEMBLY SCREWS	CRS	P.H. SMS
17A	#10 X 1-1/4"	2/ CORNER	FLUSH FRAME ADAPTER FASTENERS	CRS	FH SMS
18	#10 X 3"	2/ VENT	FIX. RAIL SILL SCREWS (SILL END)	CRS	P.H. SMS
19	W23181	AS REQD.	FIN SEAL W'STRIPPING	-	ULTRAFAB
20	Q300T190	AS REQD.	BULB SEAL	Q-LON	SCHLEGEL
22	E203	AS REQD.	GLAZING BEAD BULB	SANTOPRENE	ULTRAFAB, DUROMETER 65±5
23	FLB-50	AS REQD.	GLASS SPACER	SILICONE	FRANK LOWE
24	SL203P	2/ VENT	SWEEP LATCH	-	SULLIVAN & ASSOC.
24A	#8 X 1/8"	2/ LATCH	LATCH INST. SCREW	ST. STEEL	OH SMS
25	FY113	2/ VENT	SPRING LOADED LATCH	6063-T6	-
25A	-	1/ LATCH	LATCH SPRING	ST. STEEL	-
26	WA2L	2/ WDW.	WEEP VALVE	-	PREFERRED ENG. PRODUCTS
27	-	1/ VENT	5/16" BOX SCREEN	-	OPTIONAL
28	E161	-	FLUSH FRAME ADAPTER	6063-T6	OPTIONAL
29	-	2/ LITE	SETTING BLOCK	EPDM	DUROMETER 80±5 SHORE A
30	-	1	SILL SUPPORT INSERT	6063-T6	-
31	-	-	INSUL. GLASS EDGE SPACER	ST. STEEL	CARDINAL XL

SEALANT:

ALL JOINTS AND FRAME CONNECTIONS SEALED WITH JOINT SEALER.



Sealed: 2/15/2021

FL #25670

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