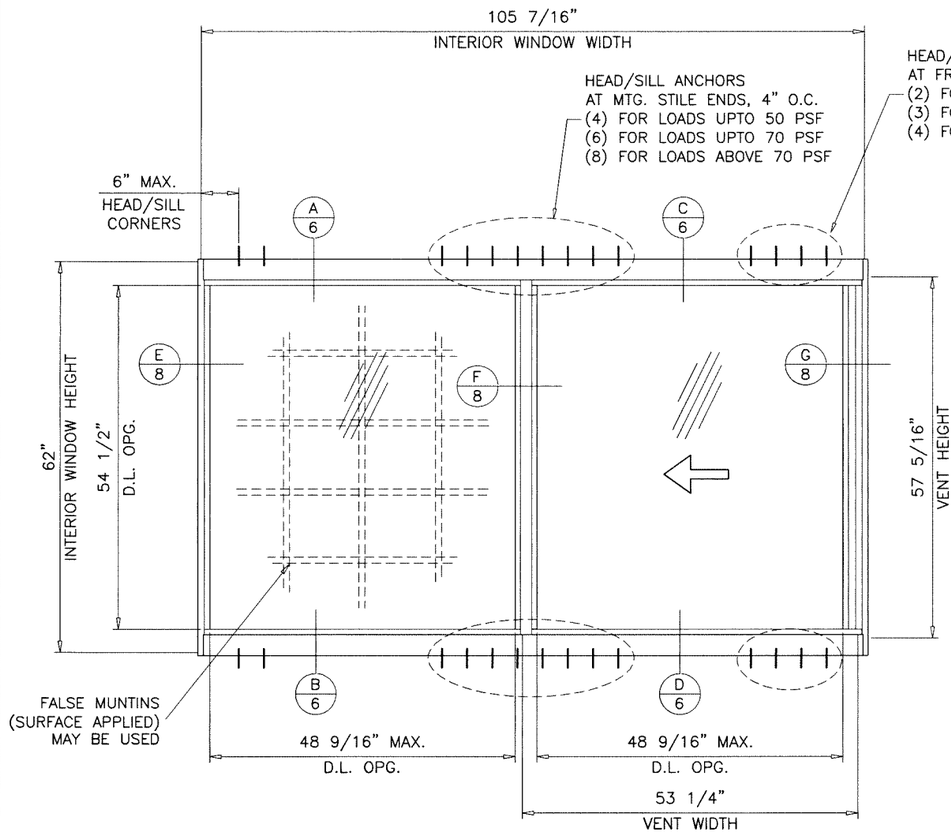

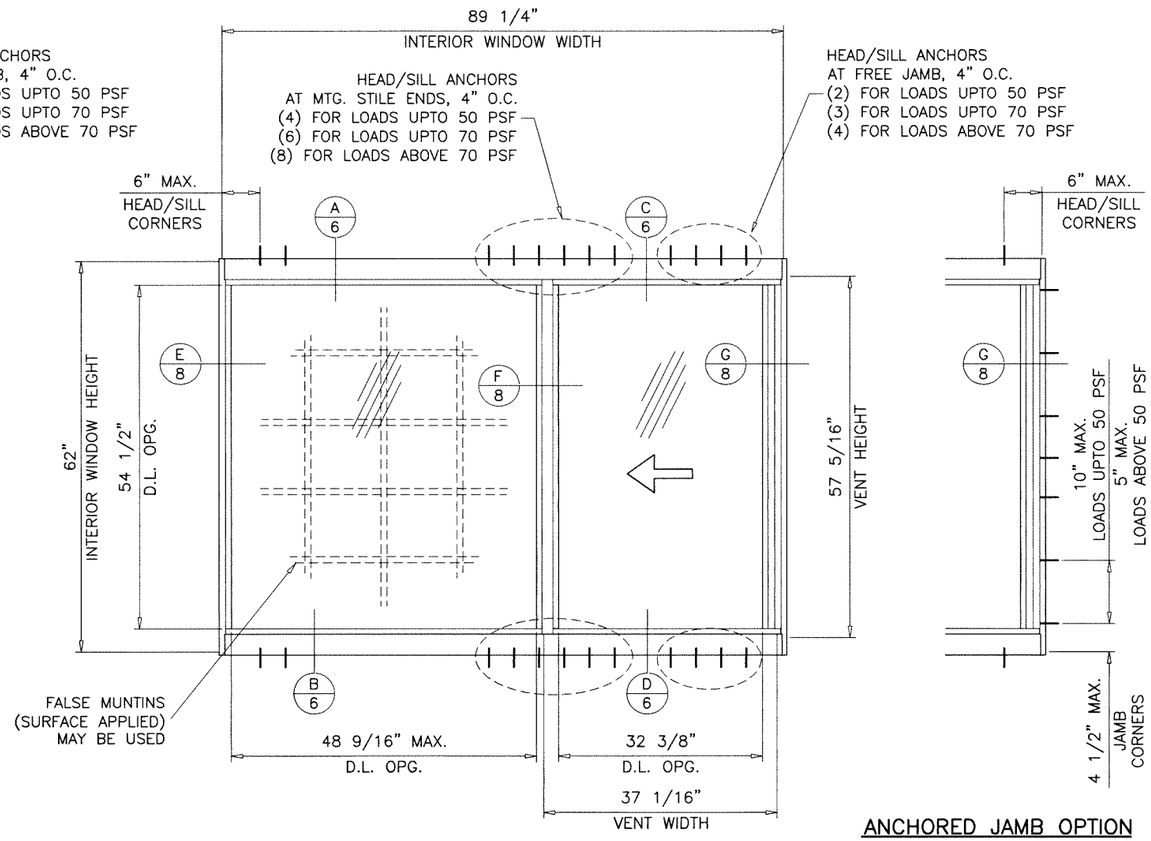

ANCHORED JAMB OPTION

TYPICAL ELEVATIONS

OX

SERIES–100HR
ALUMINUM HORIZONTAL ROLLING WINDOW

DESIGN LOAD RATINGS FOR THESE WINDOWS TO BE AS PER CHARTS SHOWN ON SHEETS 4 AND 5.

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

Sealed: 2/6/2025

FL #47256

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.

JALAL FAROOQ LICENSE No. 81223 STATE OF FLORIDA PROFESSIONAL ENGINEER

afc
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\25–10F–CRV

SERIES–100HR ALUM HORIZ. ROLLING WDW. (L.M.I.)

CRV Impact Windows & Doors, LLC.
13651 S.W. 158 Place
Miami, FL 33196
Tel. 904–337–5203, 786–366–1534

revisions:			
no	date	by	description

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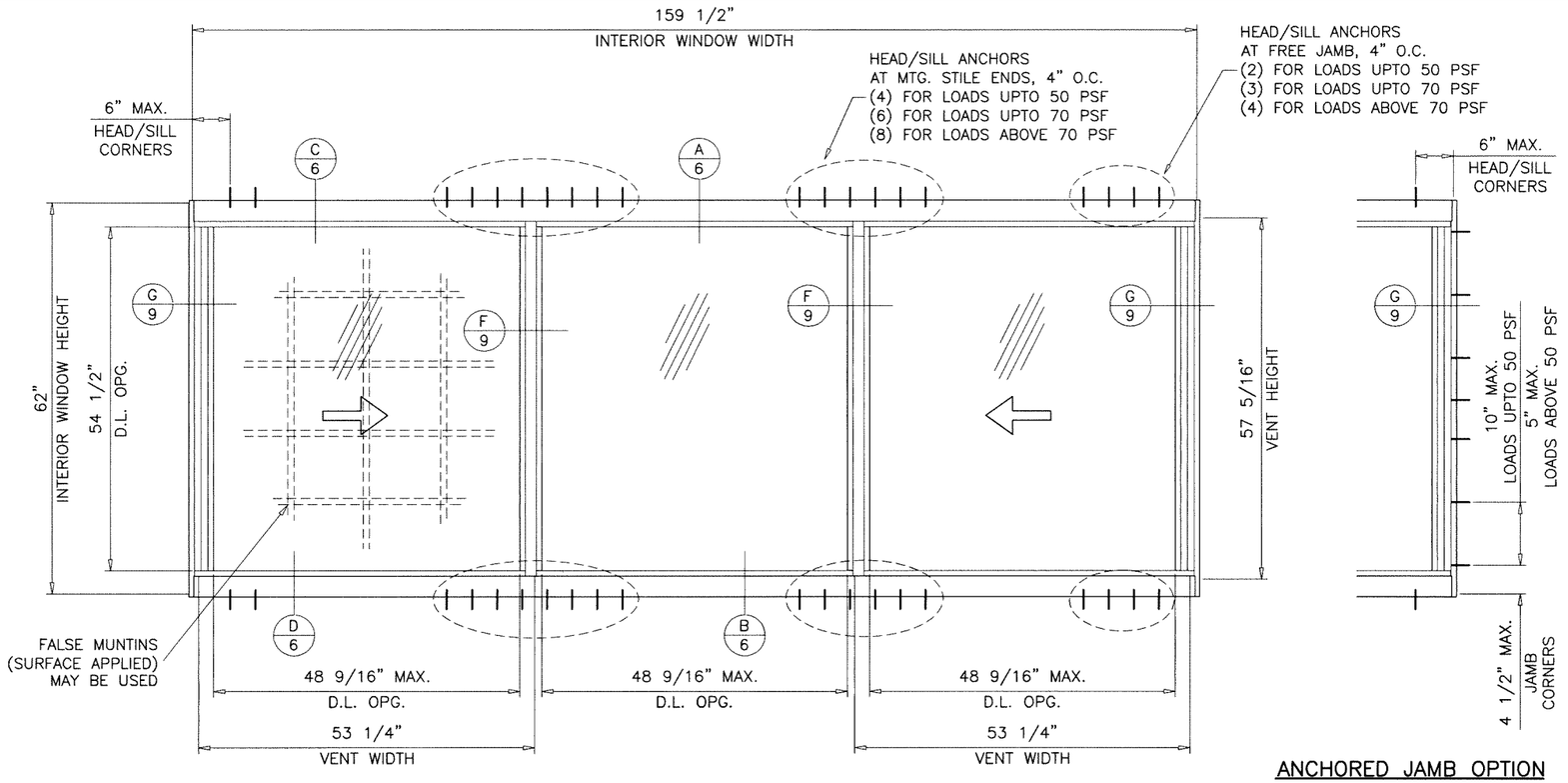
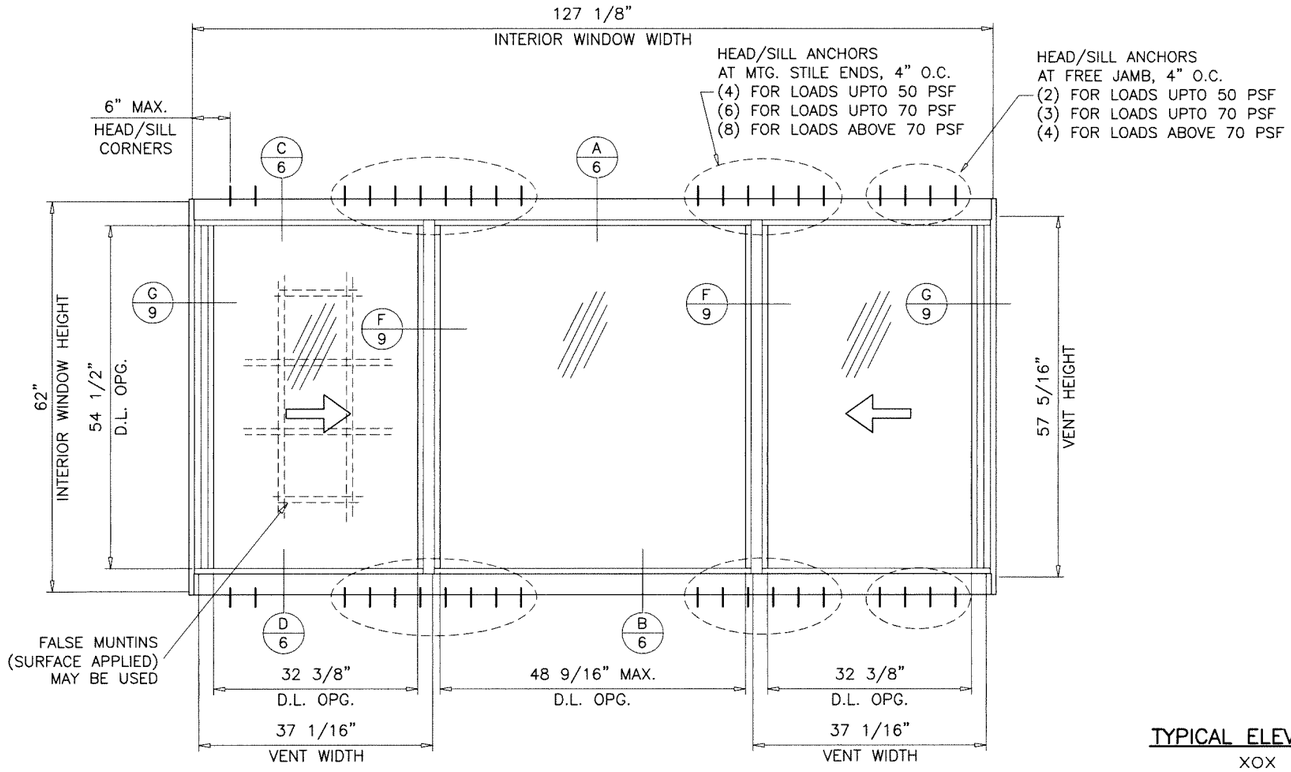
dr. by: TARIQ
chk. by:

drawing no. 25–10F

sheet 1 of 13



ANCHORED JAMB OPTION



TYPICAL ELEVATIONS

XOX

Sealed: 2/6/2025

FL #47256

JALAL FAROOQ LICENSE No. 81223 STATE OF FLORIDA PROFESSIONAL ENGINEER

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
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revisions:

no	date	by	description

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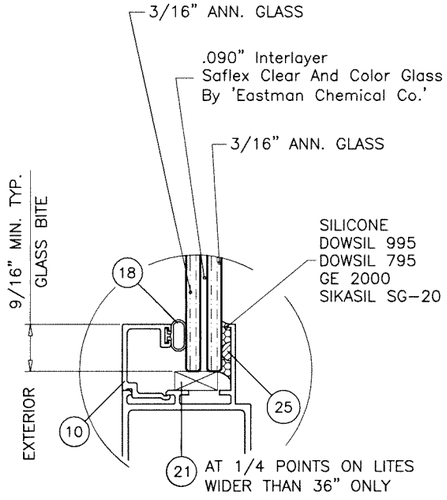
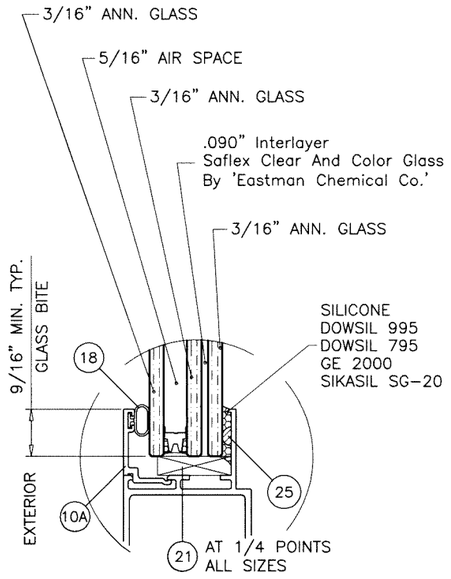
scale: 1/2"=1'-0"
dr. by: TARIQ
chk. by:

drawing no. 25-10F

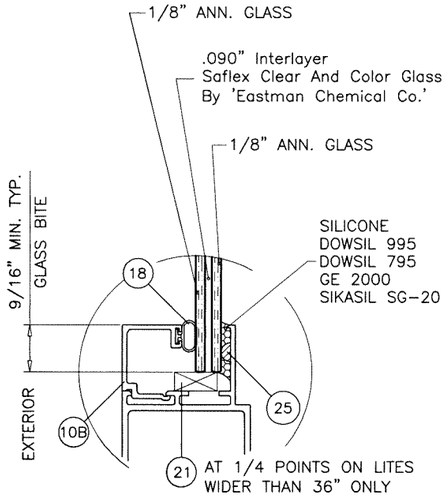
sheet 2 of 13



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

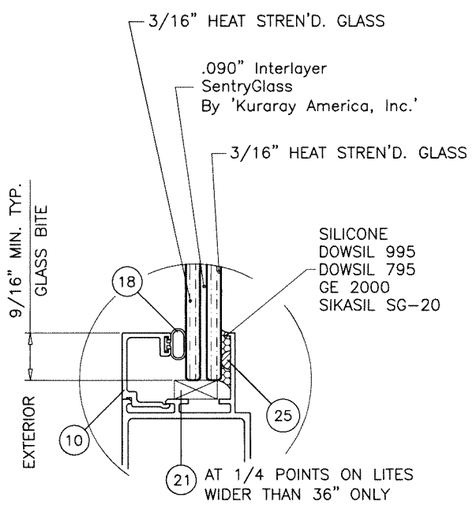


GLASS TYPE 'Ai'
15/16" OVERALL INSUL. LAM. GLASS

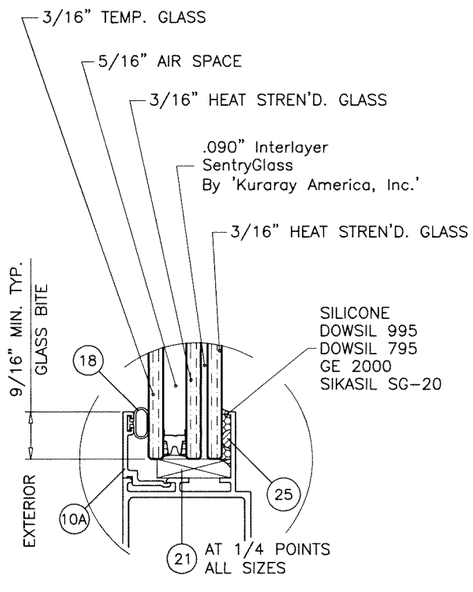


GLASS TYPE 'C'
5/16" OVERALL LAM. GLASS

NOTE:
EXTERIOR LITE OF GLASS TYPE 'Ai' TO BE TEMPERED
FOR INSTALLATIONS ABOVE 30 FT. OF GRADE.



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



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

Sealed: 2/6/2025

FL #47256

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
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revisions:

no	date	by	description

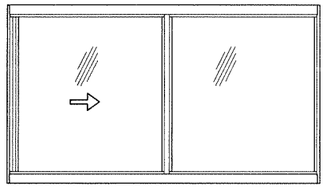
date: 01-10-25
scale: 1/2" = 1"
dr. by: TARIQ
chk. by:

drawing no.
25-10F

sheet 3 of 13

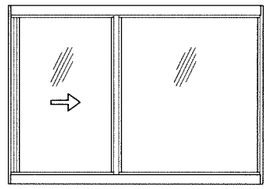
DESIGN LOAD CAPACITY – PSF (XO OR OX SIZES)

INTERIOR FRAME DIMS.		W/O REINF. GLASS 'A' & 'Ai' W/ OR W/O JAMB ANC.		WITH REINF. GLASS TYPES 'B' & 'Bi' W/O JAMB ANCHORS		WITH REINF. GLASS TYPES 'B' & 'Bi' W/ JAMB ANCHORS	
WIDTH	HEIGHT	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)
25–1/2"	25"	70.0	70.0	80.0	95.0	80.0	95.0
36"		70.0	70.0	80.0	95.0	80.0	95.0
52–1/8"		70.0	70.0	80.0	95.0	80.0	95.0
73"		70.0	70.0	80.0	95.0	80.0	95.0
75–1/8"		70.0	70.0	80.0	95.0	80.0	95.0
105–1/4"		70.0	70.0	80.0	95.0	80.0	95.0
110"		70.0	70.0	80.0	95.0	80.0	95.0
25–1/2"	37–3/8"	70.0	70.0	80.0	95.0	80.0	95.0
36"		70.0	70.0	80.0	95.0	80.0	95.0
52–1/8"		70.0	70.0	80.0	95.0	80.0	95.0
73"		70.0	70.0	80.0	95.0	80.0	95.0
75–1/8"		70.0	70.0	80.0	95.0	80.0	95.0
105–1/4"		70.0	70.0	80.0	95.0	80.0	95.0
110"		70.0	70.0	80.0	95.0	80.0	95.0
25–1/2"	49–5/8"	70.0	70.0	80.0	95.0	80.0	95.0
36"		70.0	70.0	80.0	95.0	80.0	95.0
52–1/8"		70.0	70.0	80.0	95.0	80.0	95.0
73"		70.0	70.0	80.0	95.0	80.0	95.0
75–1/8"		70.0	70.0	80.0	95.0	80.0	95.0
105–1/4"		–	–	80.0	95.0	80.0	95.0
110"		–	–	80.0	95.0	80.0	95.0
25–1/2"	55"	70.0	70.0	80.0	95.0	80.0	95.0
36"		70.0	70.0	80.0	95.0	80.0	95.0
52–1/8"		70.0	70.0	80.0	95.0	80.0	95.0
73"		70.0	70.0	80.0	95.0	80.0	95.0
75–1/8"		70.0	70.0	80.0	95.0	80.0	95.0
105–1/4"		–	–	80.0	95.0	80.0	95.0
110"		–	–	80.0	95.0	80.0	95.0
25–1/2"	62"	70.0	70.0	80.0	95.0	80.0	95.0
36"		70.0	70.0	80.0	95.0	80.0	95.0
52–1/8"		70.0	70.0	80.0	95.0	80.0	95.0
73"		70.0	70.0	80.0	94.6	80.0	95.0
75–1/8"		70.0	70.0	80.0	92.7	80.0	95.0
105–1/4"		–	–	76.6	76.6	80.0	95.0
23"	23"	70.0	70.0	80.0	95.0	80.0	95.0
47"		70.0	70.0	80.0	95.0	80.0	95.0
71"		70.0	70.0	80.0	95.0	80.0	95.0
83"		70.0	70.0	80.0	95.0	80.0	95.0
95"		70.0	70.0	80.0	95.0	80.0	95.0
107"		70.0	70.0	80.0	95.0	80.0	95.0
23"	35"	70.0	70.0	80.0	95.0	80.0	95.0
47"		70.0	70.0	80.0	95.0	80.0	95.0
71"		70.0	70.0	80.0	95.0	80.0	95.0
83"		70.0	70.0	80.0	95.0	80.0	95.0
95"		70.0	70.0	80.0	95.0	80.0	95.0
107"		70.0	70.0	80.0	95.0	80.0	95.0
23"	47"	70.0	70.0	80.0	95.0	80.0	95.0
47"		70.0	70.0	80.0	95.0	80.0	95.0
71"		70.0	70.0	80.0	95.0	80.0	95.0
83"		70.0	70.0	80.0	95.0	80.0	95.0
95"		70.0	70.0	80.0	95.0	80.0	95.0
107"		–	–	80.0	95.0	80.0	95.0
23"	59"	70.0	70.0	80.0	95.0	80.0	95.0
47"		70.0	70.0	80.0	95.0	80.0	95.0
71"		70.0	70.0	80.0	95.0	80.0	95.0
83"		–	–	80.0	95.0	80.0	95.0
95"		–	–	80.0	90.8	80.0	95.0
107"		–	–	80.0	87.1	80.0	95.0



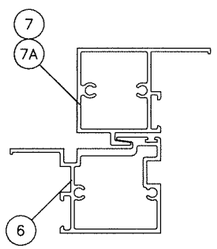
OPERATING VENTS TO BE 1/2 OF WINDOW WIDTH

'XO OR OX'

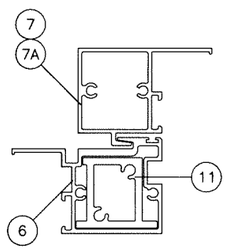


OPERATING VENTS TO BE 1/4 TO 1/3 OF WINDOW WIDTH

'XO OR OX'



FIX. STILE
W/O REINF.



FIX. STILE
WITH REINF.

EXTERIOR LOADS SHOWN IN CHARTS ARE FOR WINDOWS WITH APPLIED RISER AT FRAME SILL. FOR STANDARD SILL (NO RISER) LIMIT MAX. EXTERIOR LOADS TO +66.7 PSF SEE SHEET 6 FOR DETAILS.

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

DESIGN LOAD CAPACITY – PSF (XO OR OX SIZES)

INTERIOR FRAME DIMS.		W/O REINF. GLASS 'A' & 'Ai' W/ OR W/O JAMB ANC.		WITH REINF. GLASS TYPES 'B' & 'Bi' W/O JAMB ANCHORS		WITH REINF. GLASS TYPES 'B' & 'Bi' W/ JAMB ANCHORS	
WIDTH	HEIGHT	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)
25–1/2"	25"	70.0	70.0	80.0	95.0	80.0	95.0
36"		70.0	70.0	80.0	95.0	80.0	95.0
52–1/8"		70.0	70.0	80.0	95.0	80.0	95.0
73"		70.0	70.0	80.0	95.0	80.0	95.0
75–1/8"		70.0	70.0	80.0	95.0	80.0	95.0
105–1/4"		70.0	70.0	80.0	95.0	80.0	95.0
110"		70.0	70.0	80.0	95.0	80.0	95.0
25–1/2"	37–3/8"	70.0	70.0	80.0	95.0	80.0	95.0
36"		70.0	70.0	80.0	95.0	80.0	95.0
52–1/8"		70.0	70.0	80.0	95.0	80.0	95.0
73"		70.0	70.0	80.0	95.0	80.0	95.0
75–1/8"		70.0	70.0	80.0	95.0	80.0	95.0
105–1/4"		–	–	80.0	95.0	80.0	95.0
110"		–	–	80.0	95.0	80.0	95.0
25–1/2"	49–5/8"	70.0	70.0	80.0	95.0	80.0	95.0
36"		70.0	70.0	80.0	95.0	80.0	95.0
52–1/8"		70.0	70.0	80.0	95.0	80.0	95.0
73"		–	–	80.0	95.0	80.0	95.0
75–1/8"		–	–	80.0	95.0	80.0	95.0
25–1/2"	55"	70.0	70.0	80.0	95.0	80.0	95.0
36"		70.0	70.0	80.0	95.0	80.0	95.0
52–1/8"		70.0	70.0	80.0	95.0	80.0	95.0
73"		–	–	80.0	95.0	80.0	95.0
75–1/8"		–	–	80.0	95.0	80.0	95.0
25–1/2"	62"	70.0	70.0	80.0	95.0	80.0	95.0
36"		70.0	70.0	80.0	95.0	80.0	95.0
52–1/8"		70.0	70.0	80.0	95.0	80.0	95.0
73"		–	–	79.1	79.1	80.0	95.0
75–1/8"		–	–	78.1	78.1	80.0	95.0
23"	23"	70.0	70.0	80.0	95.0	80.0	95.0
47"		70.0	70.0	80.0	95.0	80.0	95.0
71"		70.0	70.0	80.0	95.0	80.0	95.0
83"		70.0	70.0	80.0	95.0	80.0	95.0
95"		70.0	70.0	80.0	95.0	80.0	95.0
107"		70.0	70.0	80.0	95.0	80.0	95.0
23"	35"	70.0	70.0	80.0	95.0	80.0	95.0
47"		70.0	70.0	80.0	95.0	80.0	95.0
71"		70.0	70.0	80.0	95.0	80.0	95.0
83"		70.0	70.0	80.0	95.0	80.0	95.0
95"		70.0	70.0	80.0	95.0	80.0	95.0
107"		–	–	80.0	95.0	80.0	95.0
23"	47"	70.0	70.0	80.0	95.0	80.0	95.0
47"		70.0	70.0	80.0	95.0	80.0	95.0
71"		70.0	70.0	80.0	95.0	80.0	95.0
83"		–	–	80.0	95.0	80.0	95.0
95"		–	–	80.0	95.0	80.0	95.0
23"	59"	70.0	70.0	80.0	95.0	80.0	95.0
47"		70.0	70.0	80.0	95.0	80.0	95.0
71"		–	–	80.0	90.9	80.0	95.0
83"		–	–	80.0	86.5	80.0	95.0

Sealed: 2/6/2025

FL #47256

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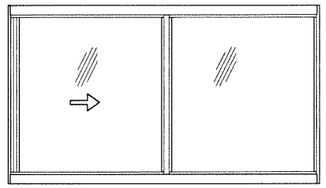
revisions:

no	date	by	description

date: 01–10–25 | scale: – | dr. by: TARIQ | chk. by:

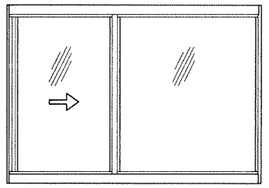
drawing no. 25–10F

DESIGN LOAD CAPACITY – PSF (XO OR OX SIZES)			
		W/O REINF.	
INTERIOR FRAME DIMS.		GLASS TYPE 'C'	
		W/ OR W/O JAMB ANC.	
WIDTH	HEIGHT	EXT.(+)	INT.(–)
25–1/2"	25"	55.0	55.0
36"		55.0	55.0
52–1/8"		55.0	55.0
73"		55.0	55.0
75–1/8"		55.0	55.0
105–1/4"		55.0	55.0
110"		55.0	55.0
25–1/2"	37–3/8"	55.0	55.0
36"		55.0	55.0
52–1/8"		55.0	55.0
73"		55.0	55.0
75–1/8"		55.0	55.0
105–1/4"		55.0	55.0
110"		55.0	55.0
25–1/2"	49–5/8"	55.0	55.0
36"		55.0	55.0
52–1/8"		55.0	55.0
73"		55.0	55.0
75–1/8"		55.0	55.0
25–1/2"	55"	55.0	55.0
36"		55.0	55.0
52–1/8"		55.0	55.0
73"		55.0	55.0
75–1/8"		55.0	55.0
25–1/2"	62"	55.0	55.0
36"		55.0	55.0
52–1/8"		55.0	55.0
73"		55.0	55.0
75–1/8"		55.0	55.0
23"	23"	55.0	55.0
47"		55.0	55.0
71"		55.0	55.0
83"		55.0	55.0
95"		55.0	55.0
107"		55.0	55.0
23"	35"	55.0	55.0
47"		55.0	55.0
71"		55.0	55.0
83"		55.0	55.0
95"		55.0	55.0
107"		55.0	55.0
23"	47"	55.0	55.0
47"		55.0	55.0
71"		55.0	55.0
83"		55.0	55.0
95"		55.0	55.0
23"	59"	55.0	55.0
47"		55.0	55.0
71"		55.0	55.0



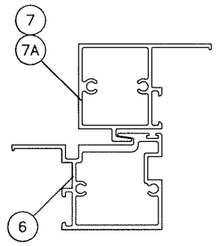
OPERATING VENTS TO BE 1/2 OF WINDOW WIDTH

'XO OR OX'



OPERATING VENTS TO BE 1/4 TO 1/3 OF WINDOW WIDTH

'XO OR OX'



FIX. STILE
W/O REINF.

DESIGN LOAD CAPACITY – PSF (XO OR OX SIZES)			
		W/O REINF.	
INTERIOR FRAME DIMS.		GLASS TYPE 'C'	
		W/ OR W/O JAMB ANC.	
WIDTH	HEIGHT	EXT.(+)	INT.(–)
25–1/2"	25"	55.0	55.0
36"		55.0	55.0
52–1/8"		55.0	55.0
73"		55.0	55.0
75–1/8"		55.0	55.0
105–1/4"		55.0	55.0
110"		55.0	55.0
25–1/2"	37–3/8"	55.0	55.0
36"		55.0	55.0
52–1/8"		55.0	55.0
73"		55.0	55.0
75–1/8"		55.0	55.0
25–1/2"	49–5/8"	55.0	55.0
36"		55.0	55.0
52–1/8"		55.0	55.0
25–1/2"	55"	55.0	55.0
36"		55.0	55.0
52–1/8"		55.0	55.0
25–1/2"	62"	55.0	55.0
36"		55.0	55.0
52–1/8"		55.0	55.0
23"	23"	55.0	55.0
47"		55.0	55.0
71"		55.0	55.0
83"		55.0	55.0
95"		55.0	55.0
107"		55.0	55.0
23"	35"	55.0	55.0
47"		55.0	55.0
71"		55.0	55.0
83"		55.0	55.0
95"		55.0	55.0
23"	47"	55.0	55.0
47"		55.0	55.0
71"		55.0	55.0
23"	59"	55.0	55.0
47"		55.0	55.0

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

Sealed: 2/6/2025

FL #47256

JALAL FAROOQ LICENSE No. 81223 STATE OF FLORIDA PROFESSIONAL ENGINEER

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

afc

COMP–ANL\25–10F–CRV

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CRV Impact Windows & Doors, LLC.
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Miami, FL 33196
Tel. 904–337–5203, 786–366–1534

revisions:

no	date	by	description

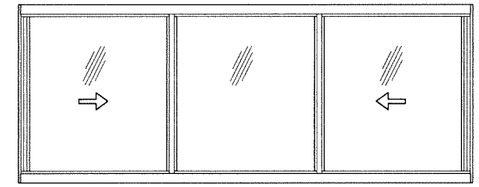
date: 01–10–25
scale: –
dr. by: TARIQ
chk. by:

drawing no. 25–10F

sheet 4.1 of 13

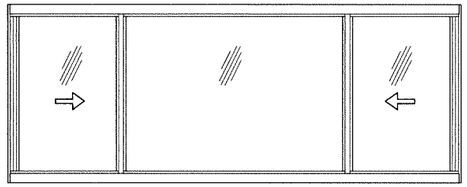
DESIGN LOAD CAPACITY – PSF (XOX SIZES)

INTERIOR FRAME DIMS.		W/O REINF. GLASS 'A' & 'Ai' W/ OR W/O JAMB ANC.		WITH REINF. GLASS TYPES 'B' & 'Bi' W/O JAMB ANCHORS		WITH REINF. GLASS TYPES 'B' & 'Bi' W/ JAMB ANCHORS	
WIDTH	HEIGHT	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)
73"	25"	70.0	70.0	80.0	95.0	80.0	95.0
105–1/4"		70.0	70.0	80.0	95.0	80.0	95.0
110"		70.0	70.0	80.0	95.0	80.0	95.0
111"		70.0	70.0	80.0	95.0	80.0	95.0
159–1/2"		–	–	80.0	95.0	80.0	95.0
73"	37–3/8"	70.0	70.0	80.0	95.0	80.0	95.0
105–1/4"		70.0	70.0	80.0	95.0	80.0	95.0
110"		70.0	70.0	80.0	95.0	80.0	95.0
111"		70.0	70.0	80.0	95.0	80.0	95.0
159–1/2"		–	–	80.0	95.0	80.0	95.0
73"	49–5/8"	70.0	70.0	80.0	95.0	80.0	95.0
105–1/4"		70.0	70.0	80.0	95.0	80.0	95.0
110"		70.0	70.0	80.0	95.0	80.0	95.0
111"		70.0	70.0	80.0	95.0	80.0	95.0
159–1/2"		–	–	80.0	95.0	80.0	95.0
73"	55"	70.0	70.0	80.0	95.0	80.0	95.0
105–1/4"		70.0	70.0	80.0	95.0	80.0	95.0
110"		70.0	70.0	80.0	95.0	80.0	95.0
111"		70.0	70.0	80.0	95.0	80.0	95.0
159–1/2"		–	–	80.0	95.0	80.0	95.0
73"	62"	70.0	70.0	80.0	95.0	80.0	95.0
105–1/4"		70.0	70.0	80.0	95.0	80.0	95.0
110"		70.0	70.0	80.0	94.3	80.0	95.0
111"		70.0	70.0	80.0	93.7	80.0	95.0
159–1/2"		–	–	76.3	76.3	80.0	95.0
71"	23"	70.0	70.0	80.0	95.0	80.0	95.0
83"		70.0	70.0	80.0	95.0	80.0	95.0
95"		70.0	70.0	80.0	95.0	80.0	95.0
107"		70.0	70.0	80.0	95.0	80.0	95.0
119"		70.0	70.0	80.0	95.0	80.0	95.0
131"		70.0	70.0	80.0	95.0	80.0	95.0
143"		70.0	70.0	80.0	95.0	80.0	95.0
155"		70.0	70.0	80.0	95.0	80.0	95.0
71"	35"	70.0	70.0	80.0	95.0	80.0	95.0
83"		70.0	70.0	80.0	95.0	80.0	95.0
95"		70.0	70.0	80.0	95.0	80.0	95.0
107"		70.0	70.0	80.0	95.0	80.0	95.0
119"		70.0	70.0	80.0	95.0	80.0	95.0
131"		70.0	70.0	80.0	95.0	80.0	95.0
143"		70.0	70.0	80.0	95.0	80.0	95.0
155"		70.0	70.0	80.0	95.0	80.0	95.0
71"	47"	70.0	70.0	80.0	95.0	80.0	95.0
83"		70.0	70.0	80.0	95.0	80.0	95.0
95"		70.0	70.0	80.0	95.0	80.0	95.0
107"		70.0	70.0	80.0	95.0	80.0	95.0
119"		70.0	70.0	80.0	95.0	80.0	95.0
131"		70.0	70.0	80.0	95.0	80.0	95.0
143"		70.0	70.0	80.0	95.0	80.0	95.0
155"		–	–	80.0	95.0	80.0	95.0
71"	59"	70.0	70.0	80.0	95.0	80.0	95.0
83"		70.0	70.0	80.0	95.0	80.0	95.0
95"		70.0	70.0	80.0	95.0	80.0	95.0
107"		70.0	70.0	80.0	95.0	80.0	95.0
119"		–	–	80.0	95.0	80.0	95.0
131"		–	–	80.0	94.6	80.0	95.0
143"		–	–	80.0	90.6	80.0	95.0
155"		–	–	80.0	87.6	80.0	95.0



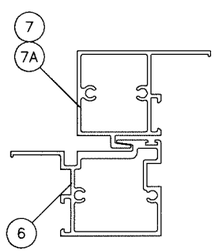
OPERATING VENTS TO BE 1/3 OF THE WINDOW WIDTH

'XOX'

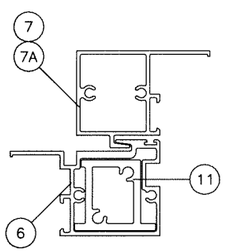


OPERATING VENTS TO BE 1/4 TO 1/3 OF THE WINDOW WIDTH

'XOX'



FIX. STILE
W/O REINF.



FIX. STILE
WITH REINF.

EXTERIOR LOADS SHOWN IN CHARTS ARE FOR WINDOWS WITH APPLIED RISER AT FRAME SILL. FOR STANDARD SILL (NO RISER) LIMIT MAX. EXTERIOR LOADS TO +66.7 PSF
SEE SHEET 6 FOR DETAILS.

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

DESIGN LOAD CAPACITY – PSF (XOX SIZES)

INTERIOR FRAME DIMS.		W/O REINF. GLASS 'A' & 'Ai' W/ OR W/O JAMB ANC.		WITH REINF. GLASS 'B' & 'Bi' W/ OR W/O JAMB ANC.	
WIDTH	HEIGHT	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)
73"	25"	70.0	70.0	80.0	95.0
105–1/4"		70.0	70.0	80.0	95.0
110"		70.0	70.0	80.0	95.0
111"		70.0	70.0	80.0	95.0
159–1/2"		70.0	70.0	80.0	95.0
73"	37–3/8"	70.0	70.0	80.0	95.0
105–1/4"		70.0	70.0	80.0	95.0
110"		70.0	70.0	80.0	95.0
111"		70.0	70.0	80.0	95.0
159–1/2"		–	–	80.0	95.0
73"	49–5/8"	70.0	70.0	80.0	95.0
105–1/4"		–	–	80.0	95.0
110"		–	–	80.0	95.0
111"		–	–	80.0	95.0
73"	55"	70.0	70.0	80.0	95.0
105–1/4"		–	–	80.0	95.0
110"		–	–	80.0	95.0
111"		–	–	80.0	95.0
73"	62"	70.0	70.0	80.0	95.0
105–1/4"		–	–	80.0	95.0
71"	23"	70.0	70.0	80.0	95.0
83"		70.0	70.0	80.0	95.0
95"		70.0	70.0	80.0	95.0
107"		70.0	70.0	80.0	95.0
119"		70.0	70.0	80.0	95.0
131"		70.0	70.0	80.0	95.0
143"		70.0	70.0	80.0	95.0
155"		70.0	70.0	80.0	95.0
71"	35"	70.0	70.0	80.0	95.0
83"		70.0	70.0	80.0	95.0
95"		70.0	70.0	80.0	95.0
107"		70.0	70.0	80.0	95.0
119"		70.0	70.0	80.0	95.0
131"		70.0	70.0	80.0	95.0
143"		–	–	80.0	95.0
155"		–	–	80.0	95.0
71"	47"	70.0	70.0	80.0	95.0
83"		70.0	70.0	80.0	95.0
95"		70.0	70.0	80.0	95.0
107"		–	–	80.0	95.0
119"		–	–	80.0	95.0
131"		–	–	80.0	95.0
71"	59"	70.0	70.0	80.0	95.0
83"		–	–	80.0	95.0
95"		–	–	80.0	95.0
107"		–	–	80.0	95.0

Sealed: 2/6/2025

FL #47256

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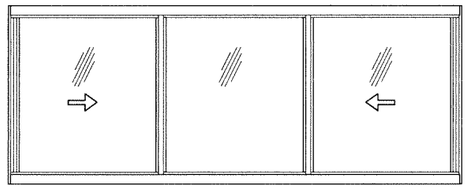
revisions:			
no	date	by	description

date: 01–10–25 | scale: – | dr. by: TARIQ | chk. by:

drawing no. 25–10F

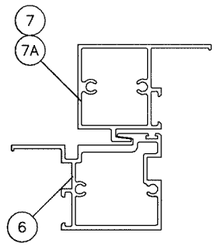
sheet 5 of 13

DESIGN LOAD CAPACITY – PSF (XOX SIZES)			
INTERIOR FRAME DIMS.		W/O REINF. GLASS TYPE 'C' W/ OR W/O JAMB ANC.	
WIDTH	HEIGHT	EXT.(+)	INT.(–)
73"	25"	55.0	55.0
105–1/4"		55.0	55.0
110"		55.0	55.0
111"		55.0	55.0
73"	37–3/8"	55.0	55.0
105–1/4"		55.0	55.0
110"		55.0	55.0
111"		55.0	55.0
73"	49–5/8"	55.0	55.0
105–1/4"		55.0	55.0
110"		55.0	55.0
111"		55.0	55.0
73"	55"	55.0	55.0
105–1/4"		55.0	55.0
110"		55.0	55.0
111"		55.0	55.0
73"	62"	55.0	55.0
105–1/4"		55.0	55.0
110"		55.0	55.0
111"		55.0	55.0
71"	23"	55.0	55.0
83"		55.0	55.0
95"		55.0	55.0
107"		55.0	55.0
119"		55.0	55.0
131"		55.0	55.0
143"		55.0	55.0
155"		55.0	55.0
71"	35"	55.0	55.0
83"		55.0	55.0
95"		55.0	55.0
107"		55.0	55.0
119"		55.0	55.0
131"		55.0	55.0
143"		55.0	55.0
155"		55.0	55.0
71"	47"	55.0	55.0
83"		55.0	55.0
95"		55.0	55.0
107"		55.0	55.0
119"		55.0	55.0
131"		55.0	55.0
143"		55.0	55.0
71"	59"	55.0	55.0
83"		55.0	55.0
95"		55.0	55.0
107"		55.0	55.0

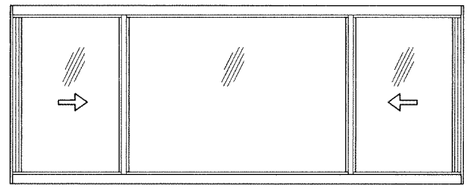


OPERATING VENTS TO BE 1/3 OF THE WINDOW WIDTH

'XOX'



FIX. STILE
W/O REINF.



OPERATING VENTS TO BE 1/4 TO 1/3 OF THE WINDOW WIDTH

'XOX'

DESIGN LOAD CAPACITY – PSF (XOX SIZES)			
INTERIOR FRAME DIMS.		W/O REINF. GLASS TYPE 'C' W/ OR W/O JAMB ANC.	
WIDTH	HEIGHT	EXT.(+)	INT.(–)
73"	25"	55.0	55.0
105–1/4"		55.0	55.0
110"		55.0	55.0
111"		55.0	55.0
159–1/2"		55.0	55.0
73"	37–3/8"	55.0	55.0
105–1/4"		55.0	55.0
110"		55.0	55.0
111"		55.0	55.0
73"	49–5/8"	55.0	55.0
73"	55"	55.0	55.0
73"	62"	55.0	55.0
71"	23"	55.0	55.0
83"		55.0	55.0
95"		55.0	55.0
107"		55.0	55.0
119"		55.0	55.0
131"		55.0	55.0
143"		55.0	55.0
155"		55.0	55.0
71"	35"	55.0	55.0
83"		55.0	55.0
95"		55.0	55.0
107"		55.0	55.0
119"		55.0	55.0
131"		55.0	55.0
71"	47"	55.0	55.0
83"		55.0	55.0
95"		55.0	55.0
71"	59"	55.0	55.0

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

Sealed: 2/6/2025

JALAL FAROOQ LICENSE No. 81223 STATE OF FLORIDA PROFESSIONAL ENGINEER

FL #47256

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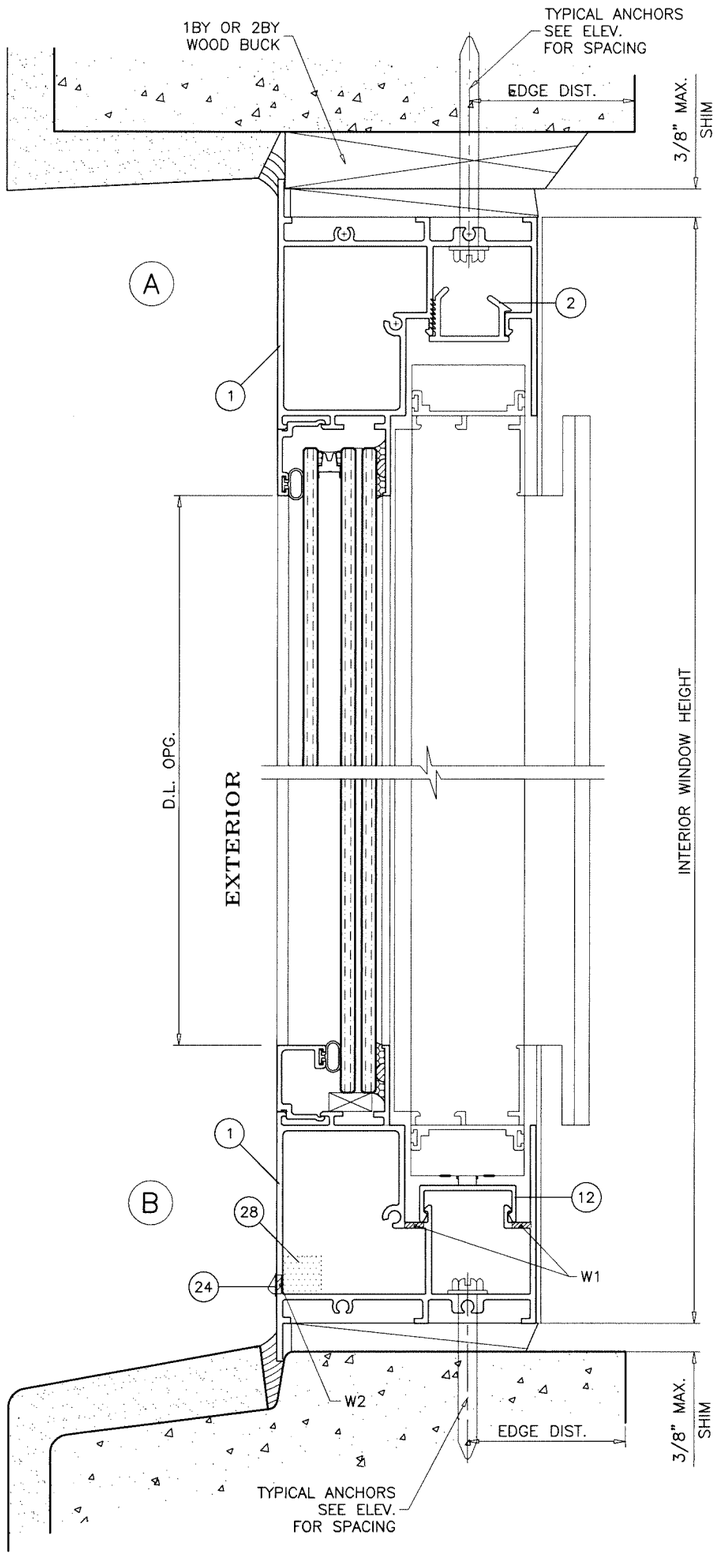
revisions:

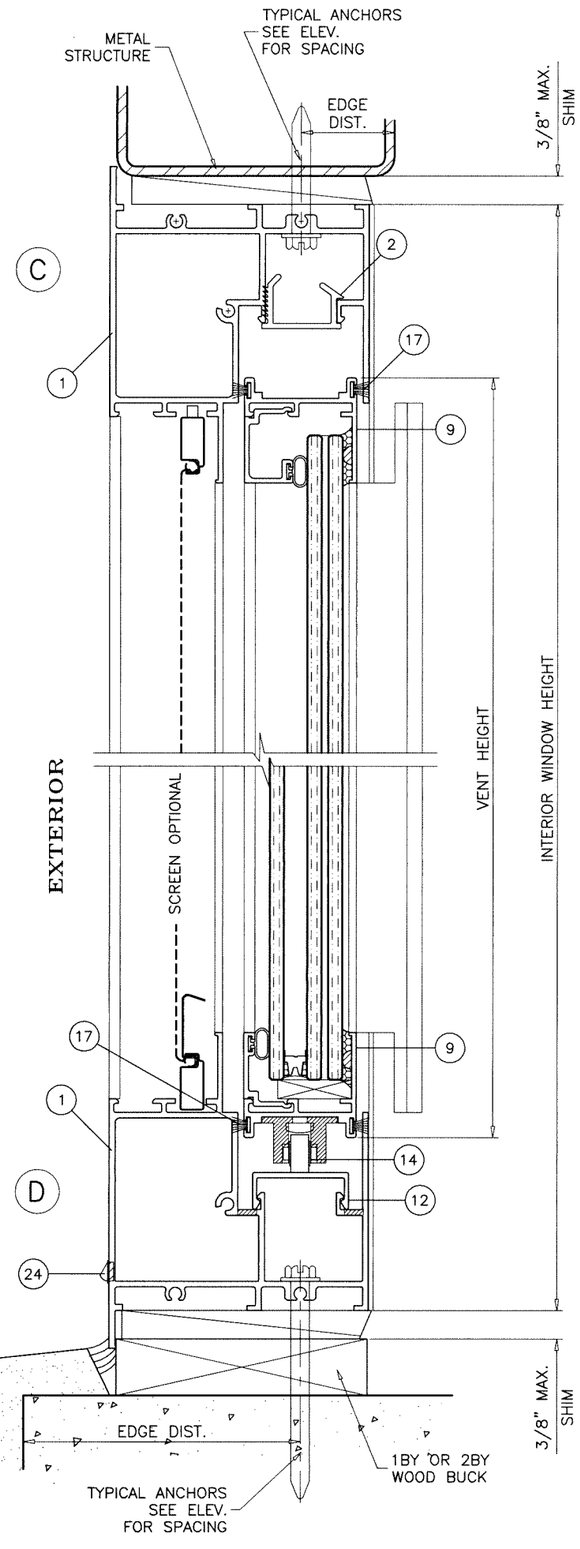
no	date	by	description

date: 01–10–25
scale: –
dr. by: TARIQ
chk. by:

drawing no. 25–10F

sheet 5.1 of 13

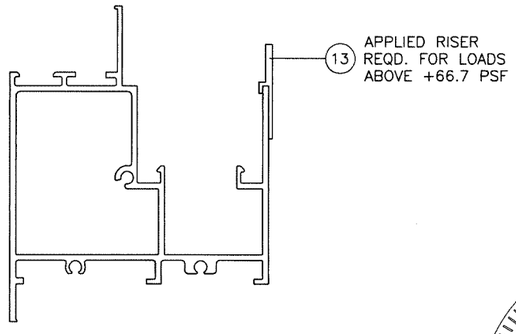




WEEPHOLES:

W1 = 5/16" X 2" NOTCH AT EACH END

W2 = 5/16" X 1-3/4" WEEP NOTCHES AT 4-1/2" FROM EACH END AND 50" O.C. WITH BAFFLE.



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FL #47256

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\25-10F-CRV

SERIES-100HR ALUM HORIZ. ROLLING WDW. (L.M.I.)

CRV Impact Windows & Doors, LLC.
13651 S.W. 158 Place
Miami, FL 33196
Tel. 904-337-5203, 786-366-1534

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no	date	by	description

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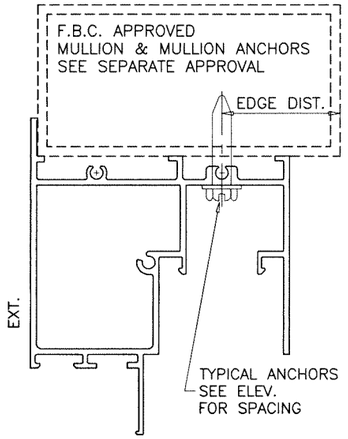
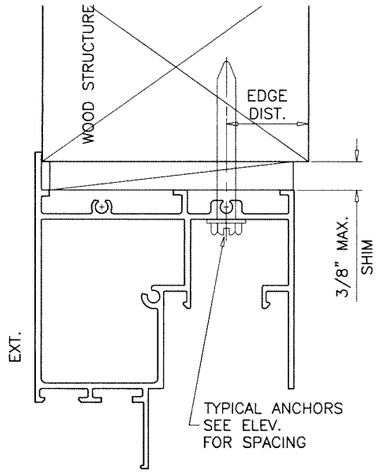
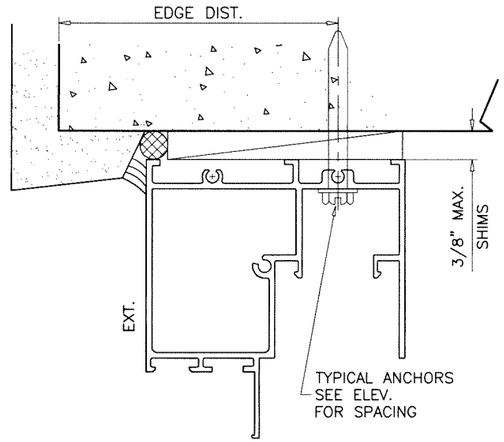
dr. by: TARIQ
chk. by:

drawing no. 25-10F

sheet 6 of 13







FLUSH FRAME WITH
TRIMMED EXTERIOR FLANGE

WOOD BUCKS AND METAL STRUCTURE NOT BY 'CRV 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 WOOD STRUCTURES
2" MIN. PENETRATION INTO WOOD (HEAD/SILL/JAMBS)

THRU 1BY OR 2BY WOOD 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
2" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
2" MIN. EMBED INTO GROUT FILLED 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)

TYPICAL EDGE DISTANCE

INTO CONCRETE AND BLOCKS = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

WOOD AT HEAD, SILL OR JAMBS SG = 0.55 MIN.
CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.
C-90 HOLLOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.

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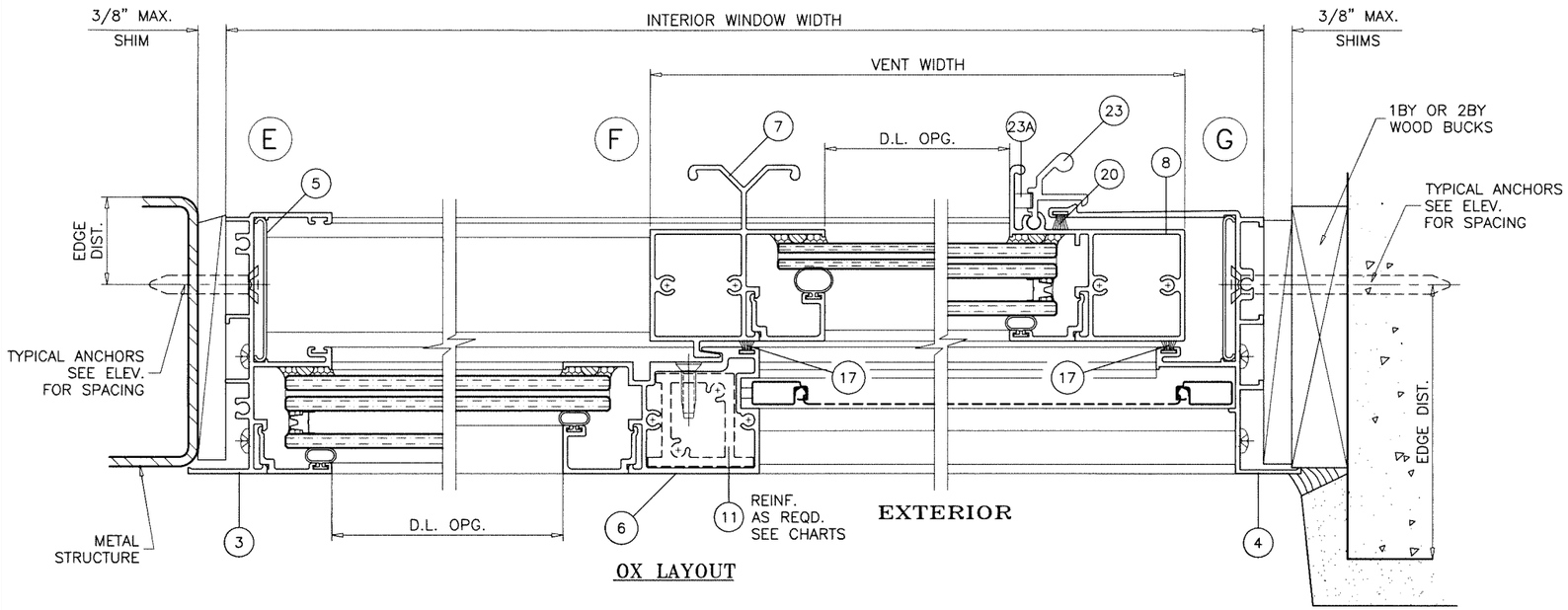

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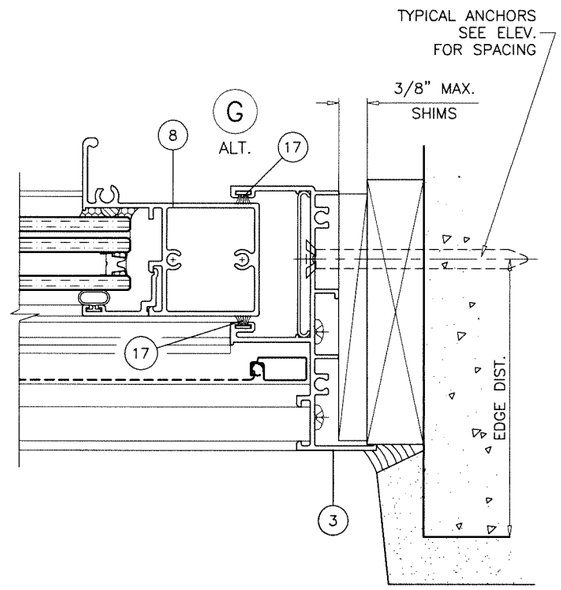

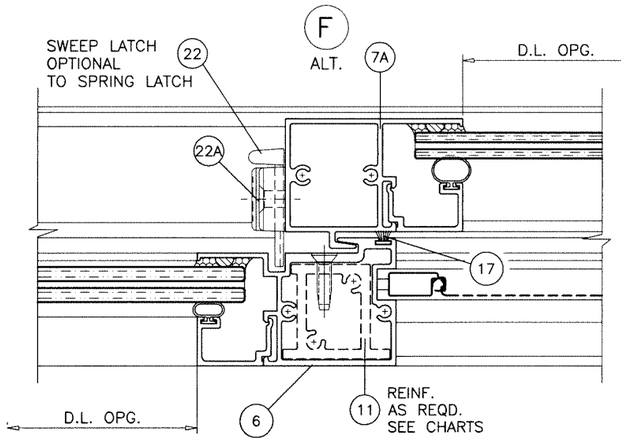

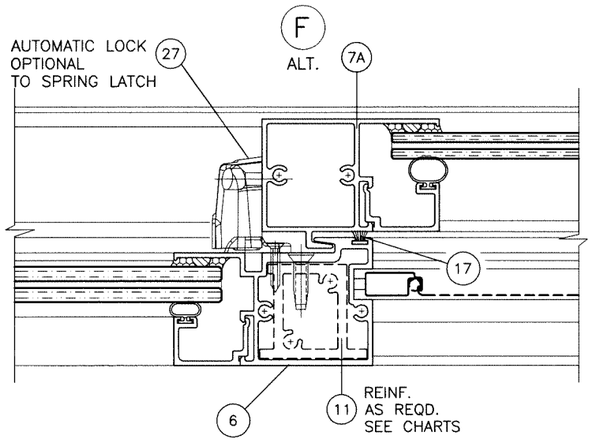

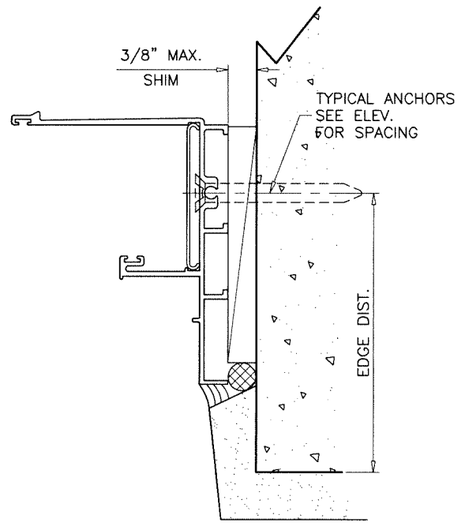

FLUSH FRAME WITH
TRIMMED EXTERIOR FLANGE
APPLICABLE TO MOV. AND FIX. JAMBS

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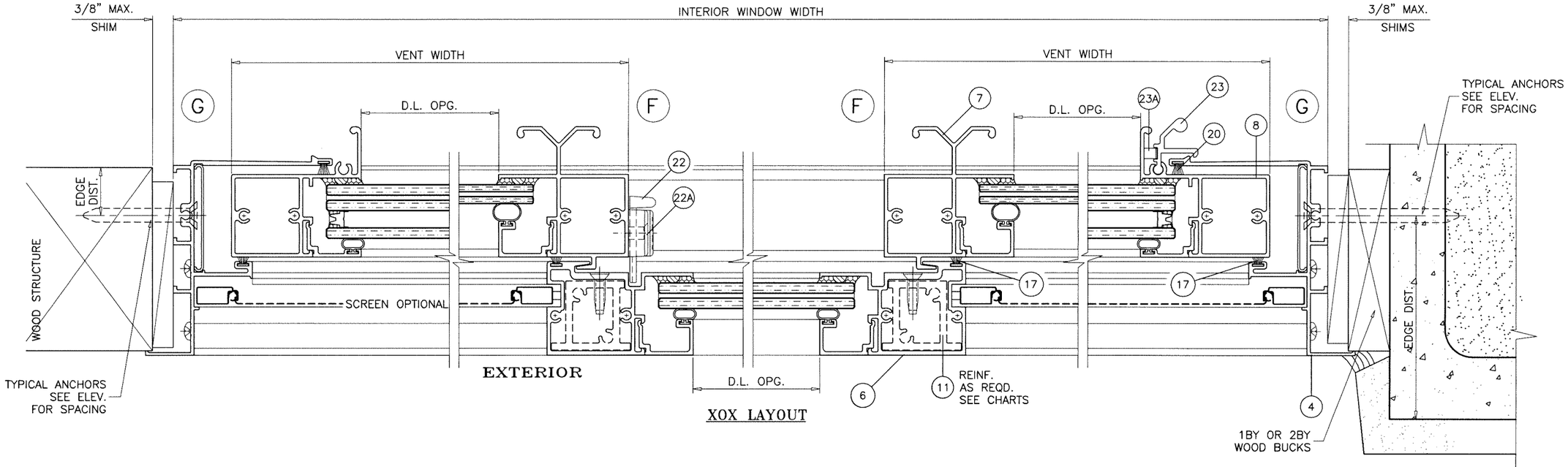
sheet 8 of 13



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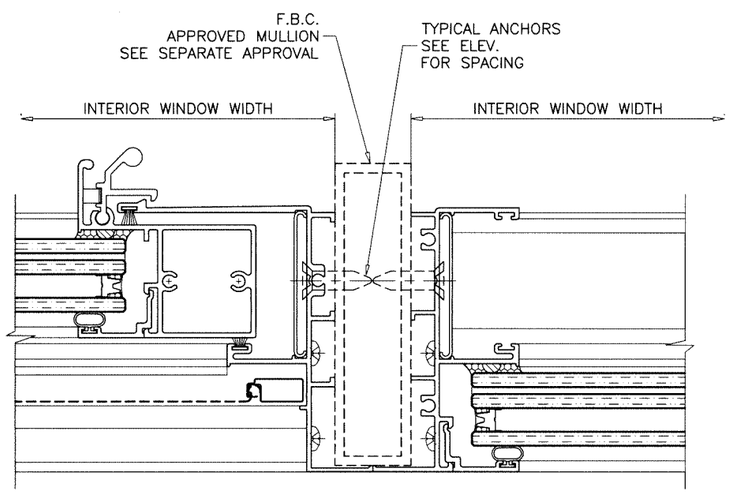

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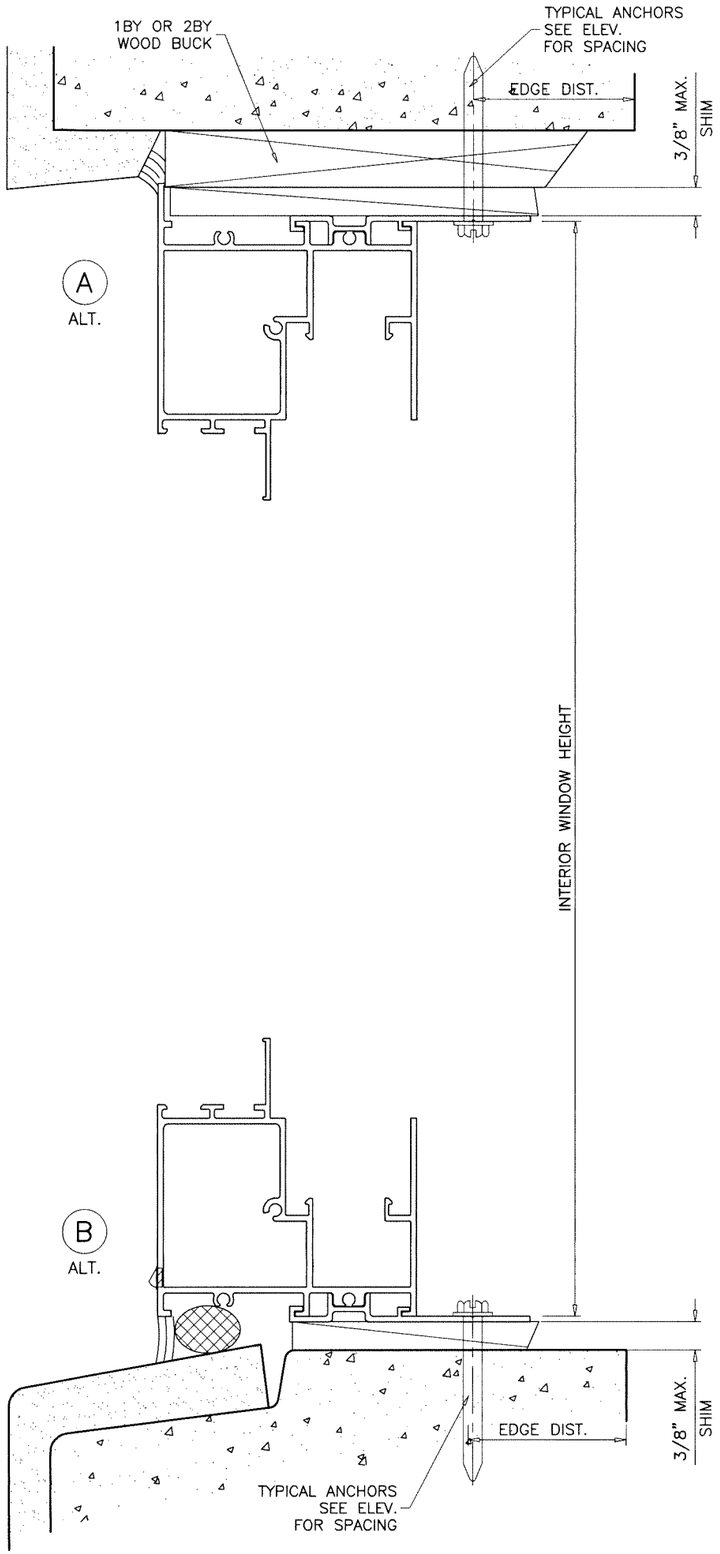

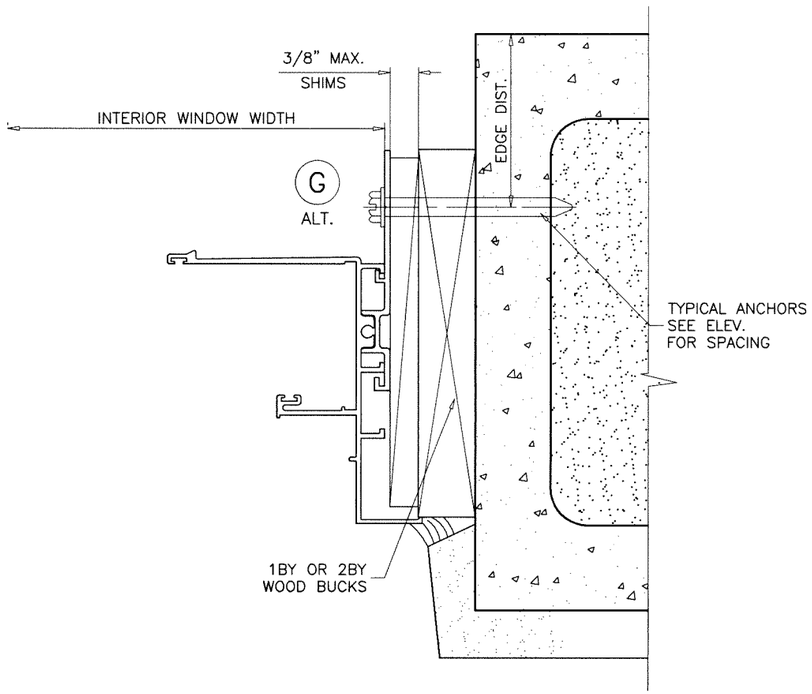

INSTALLATION DETAILS WITH ANCHOR CLIP (FLUSH & FLANGE FRAMES)

WINDOWS CAN BE INSTALLED BY USING ANCHOR CLIPS AT HEAD, SILL AND JAMBS.
CLIP INSTALLATION CAN BE IN ANY SUBSTRATE SHOWN FOR ANCHORS THRU FRAMES
SEE SHEETS 6 THRU 9 FOR DETAILS

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ITEM	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	101B	1	FRAME HEAD/SILL	6063–T6	PROFILE
2	G107	AS REQD.	HEAD COVER (OPTIONAL)	PVC	CENTRAL PLASTICS
3	116	AS REQD.	FRAME JAMB (MOVING/FIXED)	6063–T6	PROFILE
4	104A	AS REQD.	FRAME JAMB (MOVING)	6063–T6	PROFILE
5	G104	AS REQD.	JAMB COVER	PVC	CENTRAL PLASTICS
6	108	1/ VENT	FIXED MTG. RAIL	6063–T6	PROFILE
7	107	1/ VENT	VENT INTERLOCK W/ HANDLE	6063–T6	PROFILE
7A	118	1/ VENT	VENT INTERLOCK W/O HANDLE	6063–T6	PROFILE
8	106	1/ VENT	JAMB STILE	6063–T6	PROFILE
9	102	2/ VENT	TOP AND BOTTOM RAIL	6063–T6	PROFILE
10	115	AS REQD.	GLAZING BEAD (7/16" LAM. GLASS)	6063–T6	PROFILE
10A	103	AS REQD.	GLAZING BEAD (INSUL. LAM. GLASS)	6063–T6	PROFILE
10B	119	AS REQD.	GLAZING BEAD (5/16" LAM. GLASS)	6063–T6	PROFILE
11	111	AS REQD.	FIX. STILE REINFORCING (FULL LENGTH)	6063–T6	PROFILE
12	110	AS REQD.	TRACK	6063–T6	PROFILE
13	114	AS REQD.	SILL RISER	6063–T5	PROFILE
14	G101	2/ VENT	ROLLER HOUSING	NYLON	M&M PLASTICS
15	#10 X 1 3/4"	AS REQD.	FRAME/VENT ASSEMBLY FASTENERS	CRS	PH PH SMS
16	#10 X 2"	2/ VENT	SHEAR BLOCK ASSEMBLY FASTENERS	CRS	PH PH SMS
17	W71221NK	AS REQD.	FIN SEAL W'STRIPPING	–	ULTRAFAB
18	G20618	AS REQD.	GLAZING BEAD BULB	NEOPRENE	ULTRAFAB
19	109	AS REQD.	ANCHOR CLIP	6063–T6	PROFILE
20	W71321NK	AS REQD.	JAMB STILE W'STRIPPING	–	ULTRAFAB
21	–	AS REQD.	SETTING BLOCK AT 1/4 POINTS (1/4" X 1" X 2" LONG)	EPDM	DUROMETER 80±5 SHORE A
22	SL203P	2/ VENT	SWEEP LATCH, AT 9 1/2" FROM EACH END	ZAMAK	SULLIVAN & ASSOC.
22A	#8 X 1/2"	2/ LATCH	LATCH INST. SCREW	ST. STEEL	PH FH SMS
23	–	2/ VENT	SPRING LOADED LATCH, AT 10" FROM EACH END	6063–T6	ALTERNATE TO SWEEP LATCH
23A	G106	2/ LATCH	LATCH SPRING	ST. STEEL	SULLIVAN & ASSOC.
24	WA2L	2/ WDW.	HI–FLOW WEEPER	–	SULLIVAN & ASSOC.
25	FLB50–CLEAR	AS REQD.	GLASS SPACER/BUMPER	SILICONE	FRANK LOWE
26	–	OPTIONAL	5/16" BOX SCREEN	–	OPTIONAL
27	WL02	AS REQD.	AUTOMATIC LOCK	–	ROTO HARDWARE
28	–	AS REQD.	RETICULATED FOAM BAFFLE 30 PPI (1/2" X 1/2" X 1–1/2" LONG)	–	PREFERRED ENGINEERING PRODUCTS
29	–	–	–	–	–

SEALANT:

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

FL #47256

JALAL FAROOQ LICENSE No. 61223 STATE OF FLORIDA PROFESSIONAL ENGINEER

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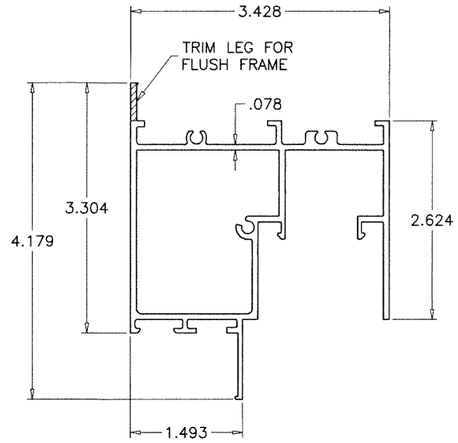
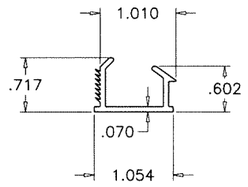
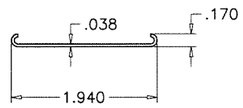


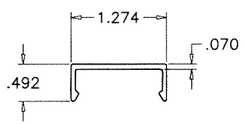
(1) FRAME HEAD/SILL



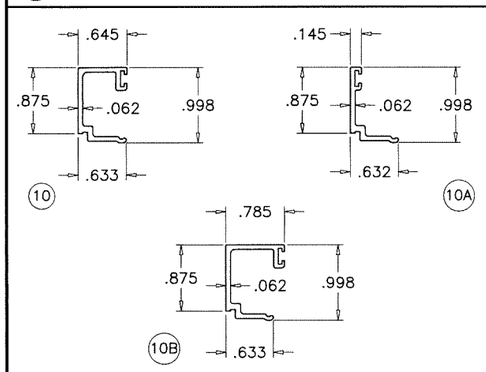
(2) HEAD COVER



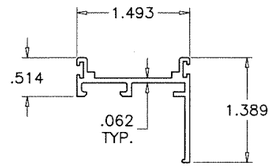
(5) JAMB COVER



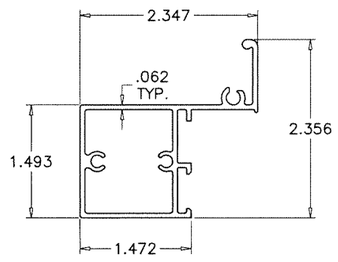
(12) TRACK



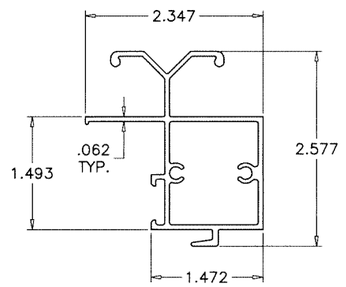
GLAZING BEADS



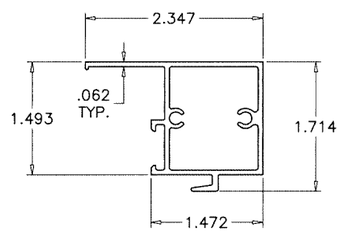
(9) VENT TOP/BOTTOM RAIL



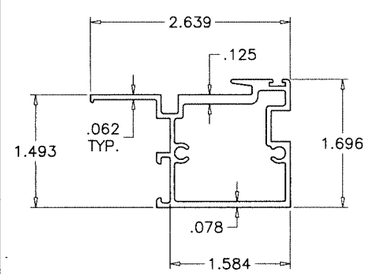
(8) JAMB STILE



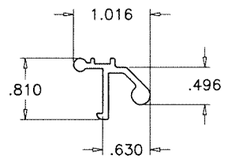
(7) VENT INTERLOCK W/ HANDLE



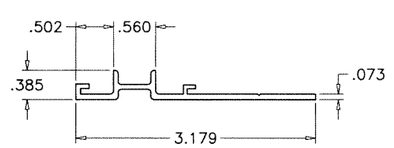
(7A) VENT INTERLOCK W/O HANDLE



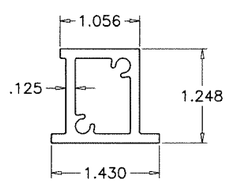
(6) FIXED MTG. RAIL



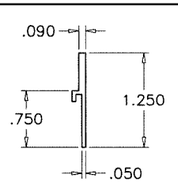
(23) SPRING LOADED LATCH



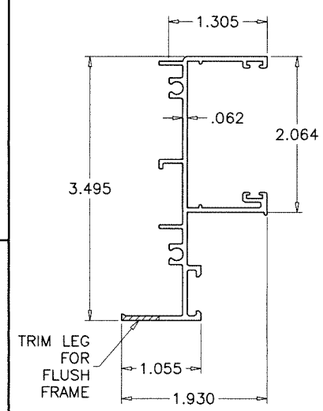
(19) ANCHOR CLIP



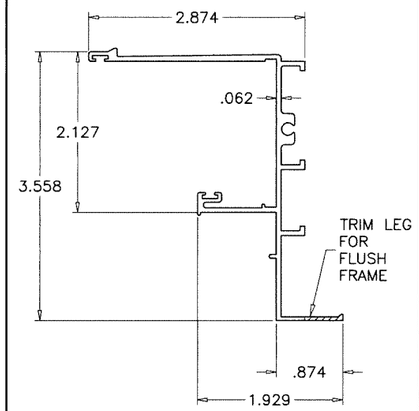
(11) FIX. STILE REINFORCING



(13) SILL RISER



(3) FRAME JAMB (MOVING/FIXED)



(4) FRAME JAMB (MOVING)

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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\25-10F-CRV

SERIES-100HR ALUM HORIZ. ROLLING WDW. (L.M.I.)

CRV Impact Windows & Doors, LLC.
13651 S.W. 158 Place
Miami, FL 33196
Tel. 904-337-5203, 786-366-1534

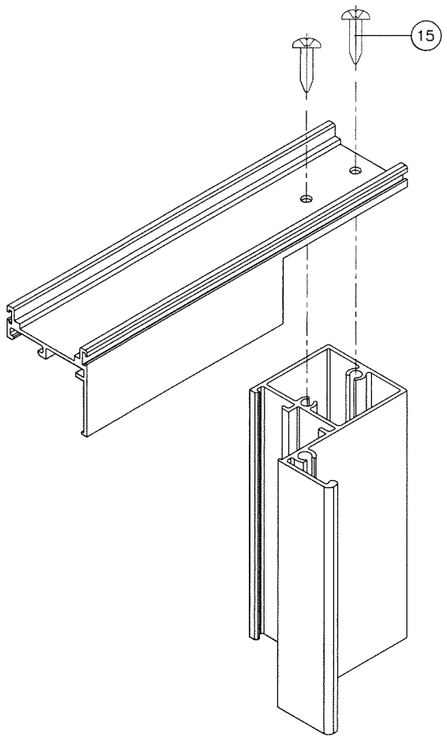
revisions:

no	date	by	description

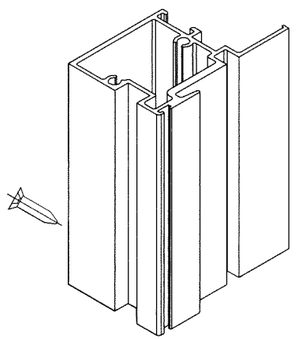
date: 01-10-25
scale: 1/2" = 1"
dr. by: TARIQ
chk. by:

drawing no. 25-10F

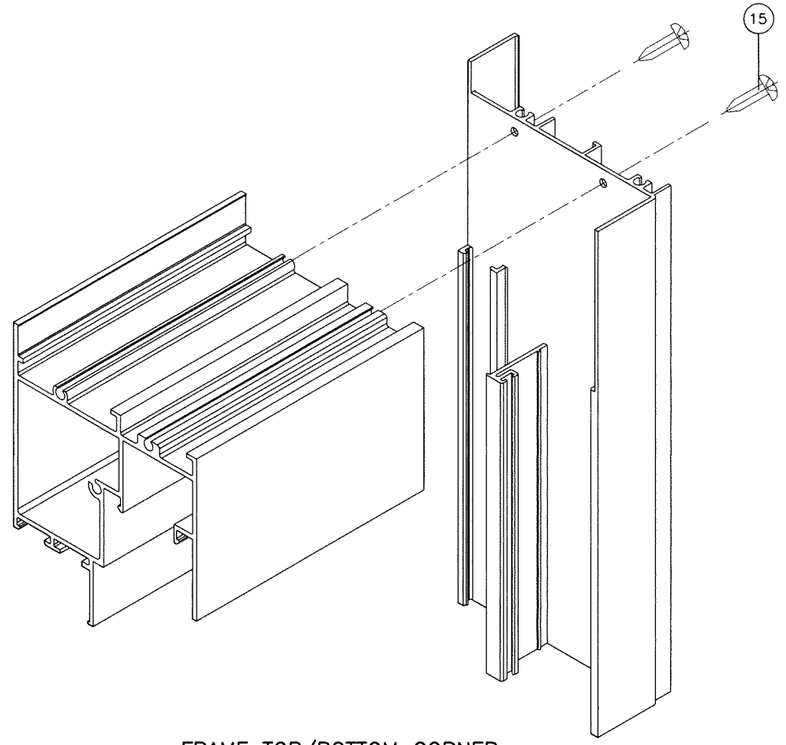
sheet 12 of 13



VENT TOP/BOTTOM CORNER



FIXED MTG. STILE CORNER



FRAME TOP/BOTTOM CORNER

Sealed: 2/6/2025

FL #47256

AL-FAROOQ CORPORATION
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