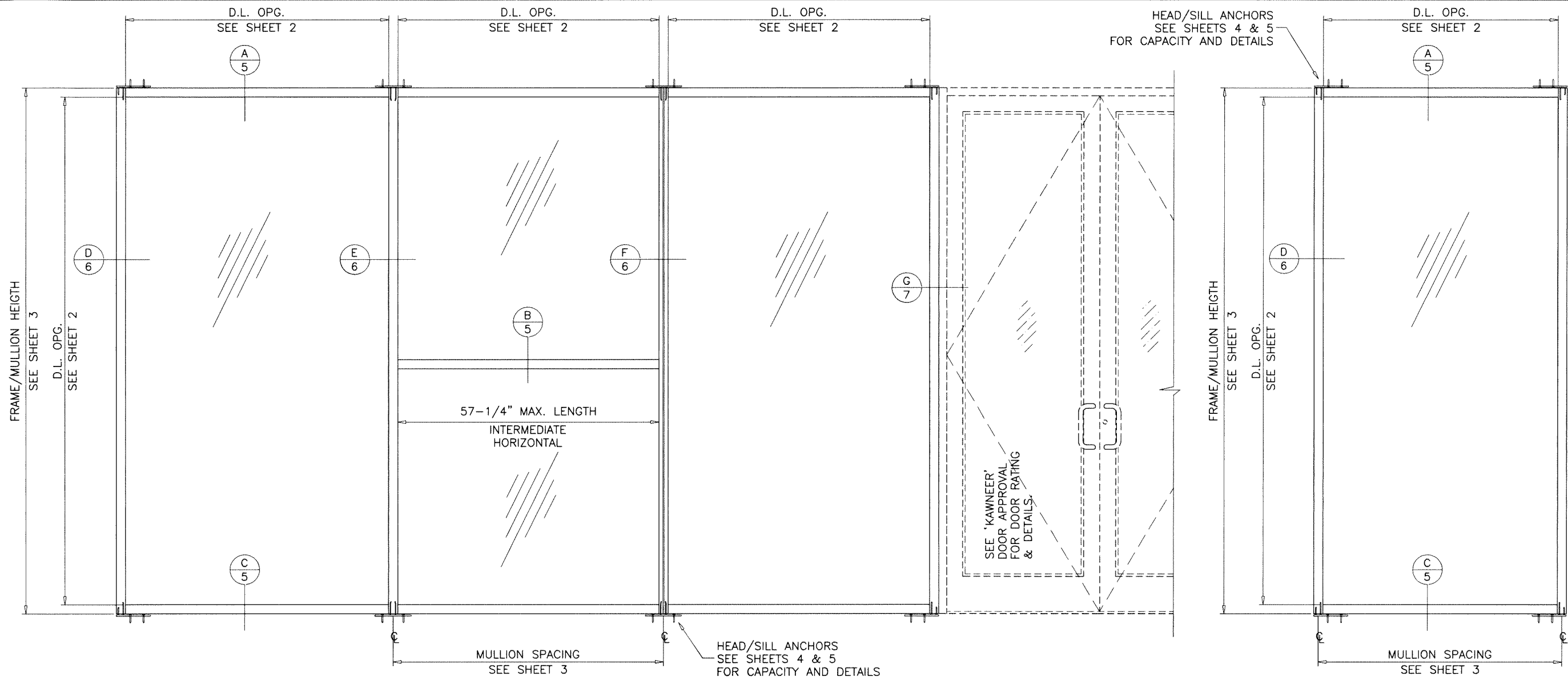




THIS SYSTEM IS NOT RATED FOR IMPACT.
INSTALLATION OF THIS SYSTEM OUTSIDE THE HVHZ AREA SHALL MEET THE APPLICABLE REQUIREMENTS FOR WIND BORNE DEBRIS PROTECTION.

SERIES 1620/1620 SSG ALUMINUM CURTAIN WALL SYSTEM

CODE REQUIREMENTS FOR SAFEGUARDS MUST BE OBSERVED.

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

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 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)'.

TYPICAL ELEVATIONS

INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

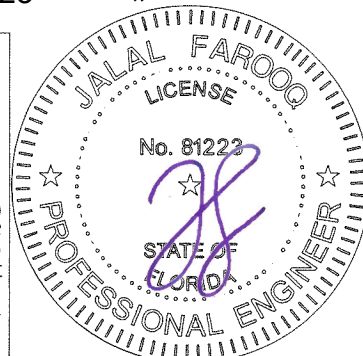
- STEP 1** DETERMINE DESIGN WIND PRESSURE REQUIREMENTS BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
- STEP 2** SEE CHARTS ON SHEET 2 FOR GLASS DESIGN LOAD CAPACITY.
- STEP 3** CHECK MULLION DESIGN LOAD CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEET 3 THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- STEP 4** USING CHARTS ON SHEET 4 SELECT ANCHOR OPTION WITH DESIGN LOAD CAPACITY MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
- STEP 5** FOR JAMBS, USING SHEET 6, DETERMINE THE MIN. & MAX. GAP DIMENSIONS.
- STEP 6** THE LOWEST VALUE RESULTING FROM STEPS 2, 3, 4 AND 5 THAT EXCEED THE DESIGN WIND PRESSURES DETERMINED THRU STEP 1 SHALL APPLY TO ENTIRE SYSTEM.
- STEP 7** WHEN USING THIS SYSTEM WITH DOORS, THE LOWER VALUE OF THE DESIGN PRESSURE RATING FOR THE SYSTEM AND THE DOOR SHALL APPLY.

- 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.

SINGLE 'O' PANEL:
FRAME WIDTH = D.L.O. WIDTH + 4.0"
FRAME HEIGHT = D.L.O. HEIGHT + 4.0"

MONOLITHIC GLASS
INSUL. GLASS
NON IMPACT

Sealed: 7/18/2023 FL #17083



AL-FAROOQ CORPORATION
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MIAMI, FLORIDA 33173
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STORE 20-59F-KNA

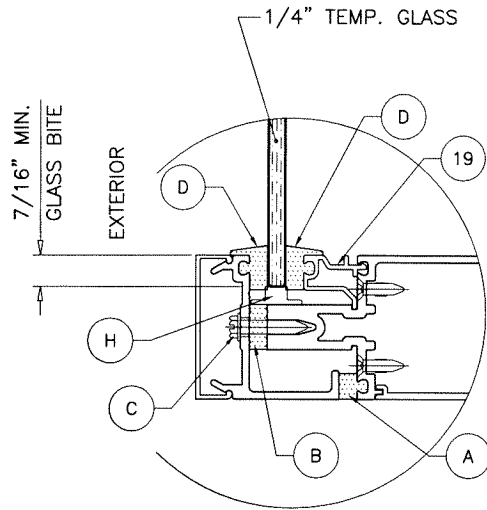
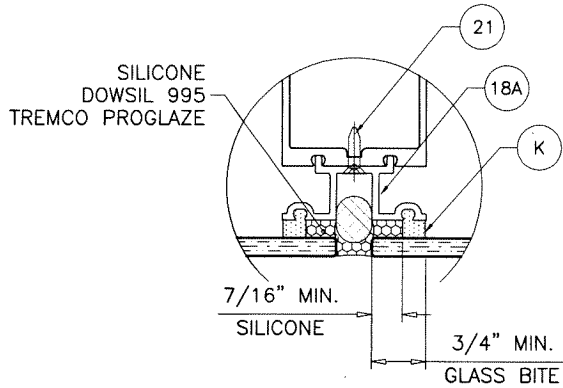
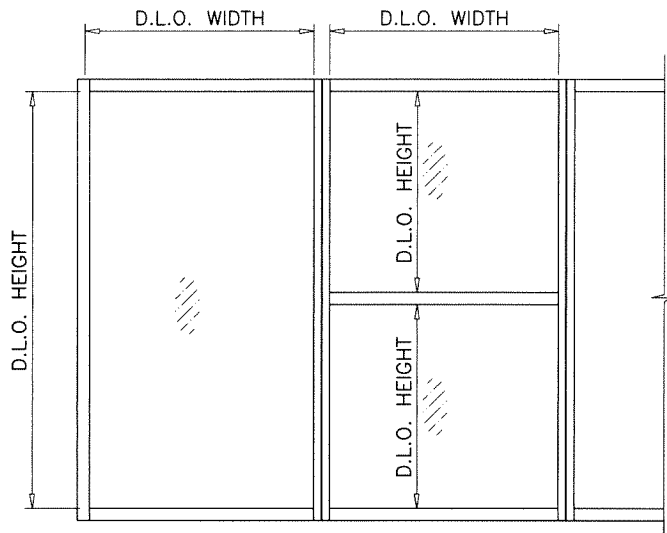
1620/1620SSG ALUM CURTAIN WALL SYS. (N.I.)
Kawneer Company, Inc.
555 Guthridge Ct. Technology Park/Atlanta
Norcross, GA 30092
Tel. (770) 449-5555 Fax. (770) 734-1560

revisions:	no.	date	by	description
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dr. by:	TARIQ			
chk. by:				
drawing no.	20-59F			
sheet	1 of 10			

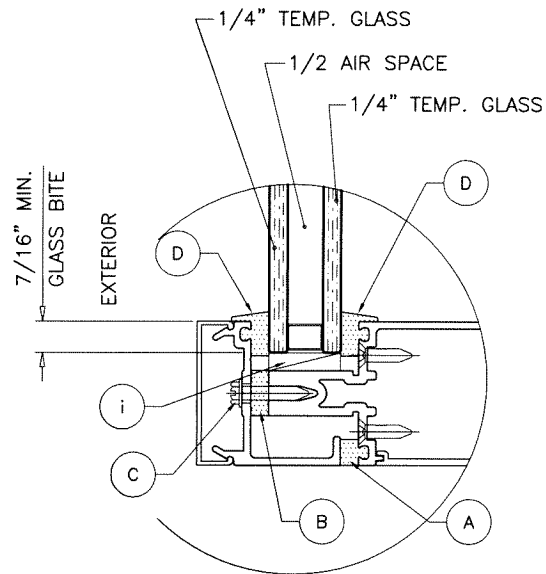
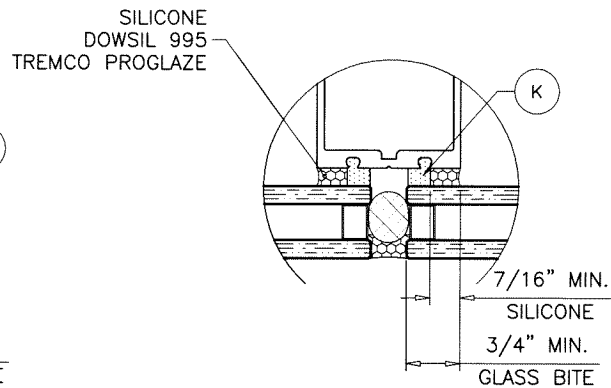
GLASS DESIGN LOAD CAPACITY - PSF			
NOMINAL DIMS.		1/4" TEMP. GLASS 1" INSUL. TEMP. GLASS	
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+)	INT. (-)
25"	56-3/4"	60.4	60.4
28"		56.2	56.2
31"		52.8	52.8
34"		50.1	50.1
37"		47.9	47.9
40"		46.2	46.2
43"		44.8	44.8
46"		43.7	43.7
49"		42.9	42.9
51"		42.3	42.3
55"		41.9	41.9
57-1/4"		41.8	41.8
25"	68"	57.8	57.8
28"		53.4	53.4
31"		49.9	49.9
34"		47.0	47.0
37"		44.6	44.6
40"		42.7	42.7
43"		41.0	41.0
46"		39.7	39.7
47"		39.3	39.3
25"	80"	56.0	56.0
28"		51.5	51.5
31"		47.8	47.8
34"		44.9	44.9
37"		42.4	42.4
40"		40.3	40.3
25"	92"	54.7	54.7
28"		50.1	50.1
31"		46.4	46.4
34"		43.4	43.4
35"		42.5	42.5
25"	98"	54.2	54.2
28"		49.6	49.6
31"		45.9	45.9
33"		43.8	43.8
25"	104"	53.7	53.7
28"		49.1	49.1
31"		45.4	45.4
25"	110"	53.3	53.3
28"		48.7	48.7
25"	115-1/2"	53.0	53.0
28"		48.4	48.4

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-09 (3 SEC. GUSTS).

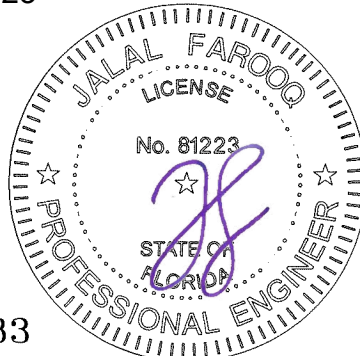


GLAZING DETAIL
MONOLITHIC GLASS



GLAZING DETAIL
INSULATED GLASS

Sealed: 7/18/2023



FL #17083

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1620/1620SSG ALUM CURTAIN WALL SYS. (N.I.)
Kawneer Company, Inc.
555 Guthridge Ct. Technology Park/Atlanta
Norcross, GA 30092
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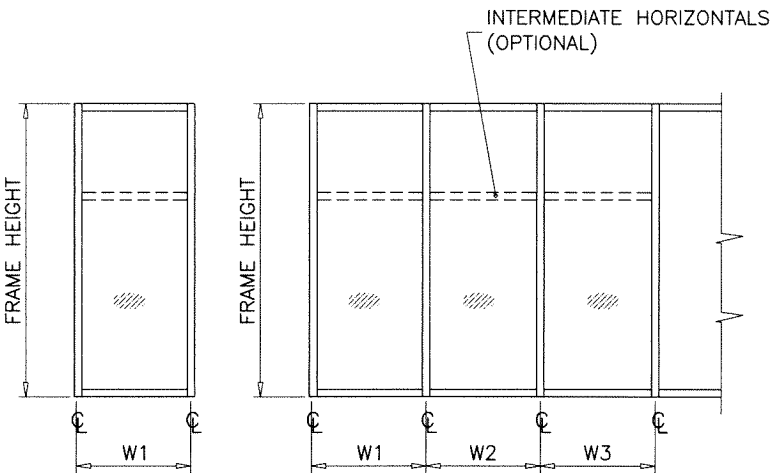
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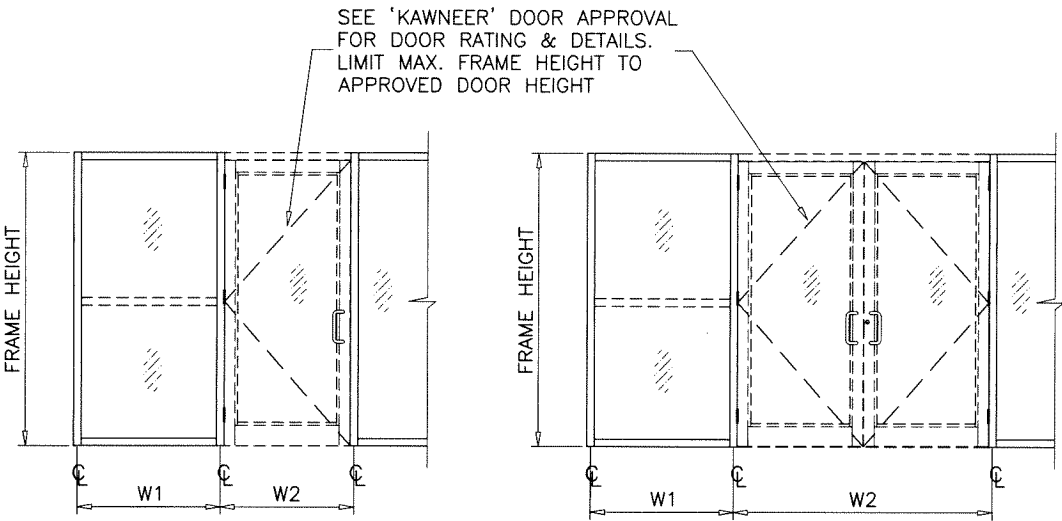
drawing no.	20-59F
sheet	2 of 10

JAMB & MULLION LOAD CAPACITY – PSF WITH OR WITHOUT INTERMEDIATE HORIZONTALS							
NOMINAL DIMS.		JAMB 'J'		MULL 'M1'		MULL 'M2'	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)
36"	102"	62.7	62.7	62.7	62.7	62.7	62.7
39"		62.7	62.7	62.7	62.7	62.7	62.7
42"		62.7	62.7	62.7	62.7	62.7	62.7
45"		62.7	62.7	62.7	62.7	62.7	62.7
48"		62.7	62.7	62.7	62.7	62.7	62.7
51"		62.7	62.7	62.7	62.7	62.7	62.7
54"		62.7	62.7	62.7	62.7	62.7	62.7
57"		62.7	62.7	62.7	62.7	62.7	62.7
59–1/4"		62.7	62.7	62.7	62.7	62.7	62.7
36"	108"	62.7	62.7	62.7	62.7	62.7	62.7
39"		62.7	62.7	62.7	62.7	62.7	62.7
42"		62.7	62.7	62.7	62.7	62.7	62.7
45"		62.7	62.7	62.7	62.7	62.7	62.7
48"		62.7	62.7	62.7	62.7	62.7	62.7
51"		62.7	62.7	62.7	62.7	62.7	62.7
54"		62.7	62.7	62.7	62.7	62.7	62.7
57"		62.7	62.7	60.6	60.6	59.9	59.9
59–1/4"		62.7	62.7	58.4	58.4	57.7	57.7
36"	114"	62.7	62.7	62.7	62.7	62.7	62.7
39"		62.7	62.7	62.7	62.7	62.7	62.7
42"		62.7	62.7	62.7	62.7	62.7	62.7
45"		62.7	62.7	62.7	62.7	62.7	62.7
48"		62.7	62.7	62.7	62.7	62.7	62.7
51"		62.7	62.7	60.5	60.5	59.6	59.6
54"		62.7	62.7	57.1	57.1	56.3	56.3
57"		62.7	62.7	54.1	54.1	53.3	53.3
59–1/4"		62.7	62.7	52.1	52.1	51.3	51.3
36"	119–1/2"	62.7	62.7	62.7	62.7	62.7	62.7
39"		62.7	62.7	62.7	62.7	62.7	62.7
42"		62.7	62.7	62.7	62.7	62.7	62.7
45"		62.7	62.7	62.1	62.1	58.6	58.6
48"		62.7	62.7	58.2	58.2	55.0	55.0
51"		62.7	62.7	54.8	54.8	51.7	51.7
54"		62.7	62.7	51.7	51.7	48.9	48.9
57"		62.7	62.7	49.0	49.0	46.3	46.3
59–1/4"		41.8	41.8	41.8	41.8	41.8	41.8
36"	126"	41.8	41.8	41.8	41.8	41.8	41.8
39"		41.8	41.8	41.8	41.8	41.8	41.8
42"		41.8	41.8	41.8	41.8	41.8	41.8
45"		41.8	41.8	41.8	41.8	41.8	41.8
48"		41.8	41.8	41.8	41.8	41.8	41.8
51"		40.0	40.0	40.0	40.0	40.0	40.0
54"		38.1	38.1	38.1	38.1	38.1	38.1
59–1/4"		34.6	34.6	34.6	34.6	34.6	34.6
36"	132"	41.8	41.8	41.8	41.8	41.8	41.8
39"		41.8	41.8	41.8	41.8	41.8	41.8
42"		41.2	41.2	41.2	41.2	41.2	41.2
45"		38.6	38.6	38.6	38.6	38.6	38.6
48"		36.5	36.5	36.5	36.5	36.5	36.5
51"		34.6	34.6	34.6	34.6	34.6	34.6
59–1/4"		31.2	31.2	31.2	31.2	31.2	31.2
59–1/2"		27.8	27.8	27.8	27.8	27.8	27.8

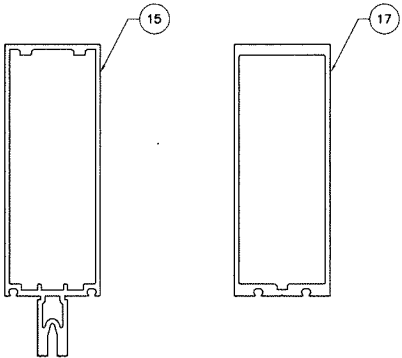
INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



$$\begin{aligned} \text{WIDTH (W)} &= W1 \\ \text{AT JAMB} \\ \text{WIDTH (W)} &= \frac{W2 + W3}{2} \\ \text{AT MULLION} \end{aligned}$$



$$\begin{aligned} \text{WIDTH (W)} &= \frac{W1 + W2}{2} \\ \text{AT MULLION} \\ \text{WIDTH (W)} &= \frac{W1}{2} + \frac{W2}{4} \\ \text{AT MULLION} \end{aligned}$$



JAMB 'J'
MULLION 'M1'

Ix	IN ⁴	Sx	IN ³
9.4139		2.7823	

Ix	IN ⁴	Sx	IN ³
7.2570		2.7295	

NOTE:
LOWER CAPACITY OF JAMBS 'J' AND MULLION 'M1' OR 'M2'
SHALL CONTROL WHEN USED IN COMBINATION.

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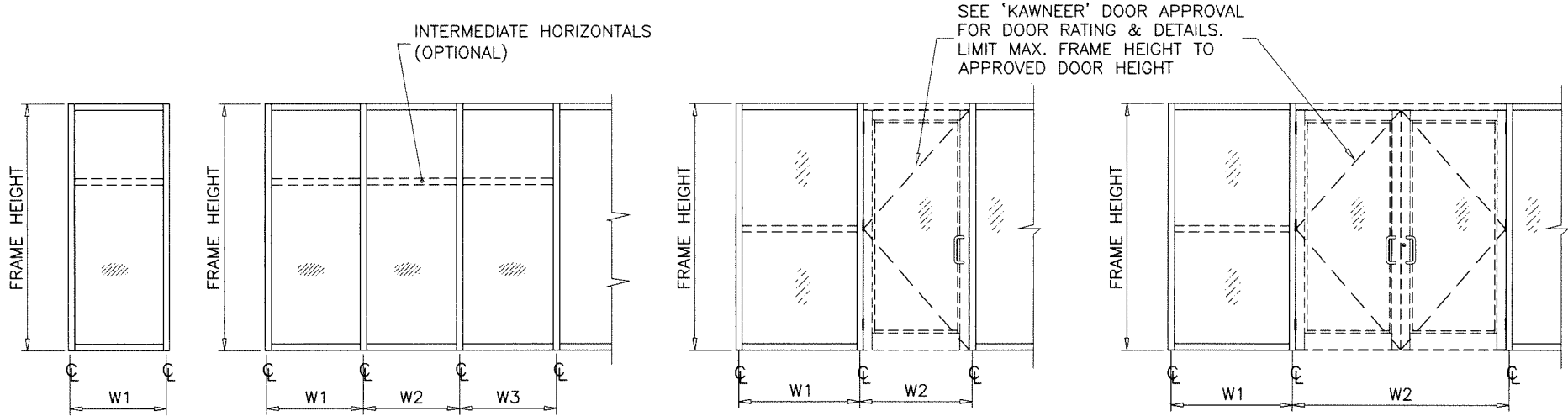
1620/1620SSG ALUM CURTAIN WALL SYS. (N.I.)
Kawneer Company, Inc.
555 Guthridge Ct. Technology Park/Atlanta
Norcross, GA 30092
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revisions:		no date by description	
date:	06-26-20	no:	
scale:	–	by:	TARIQ
dr:		chk:	
drawing no.		20-59F	
sheet		3 of 10	

ANCHOR DESIGN LOAD CAPACITY - PSF
EXT.(+) & INT.(-)

NOMINAL DIMS.		ANCHOR TYPES 'A' & 'B'
WIDTH (W)	FRAME HEIGHT	
36"	102"	62.7
39"		62.7
42"		62.7
45"		62.7
48"		60.4
51"		56.9
54"		53.7
57"		50.9
59-1/4"		49.0
36"	108"	62.7
39"		62.7
42"		62.7
45"		60.9
48"		57.1
51"		53.7
54"		50.7
57"		48.1
59-1/4"		46.3
36"	114"	62.7
39"		62.7
42"		61.8
45"		57.7
48"		54.1
51"		50.9
54"		48.1
57"		45.5
59-1/4"		43.8
36"	119-1/2"	62.7
39"		62.7
42"		58.9
45"		55.0
48"		51.6
51"		48.5
54"		45.8
57"		43.4
59-1/4"		41.8
36"	126"	41.8
39"		41.8
42"		41.8
45"		41.8
48"		41.8
51"	132"	41.8
54"		41.8
57"		41.8
59-1/4"		41.8
59-1/4"		41.8

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



WIDTH (W) = W1
AT JAMB

WIDTH (W) = $\frac{W2 + W3}{2}$
AT MULLION

WIDTH (W) = $\frac{W1 + W2}{2}$
AT MULLION

WIDTH (W) = $\frac{W1}{2} + \frac{W2}{4}$
AT MULLION

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

TYPICAL ANCHORS:

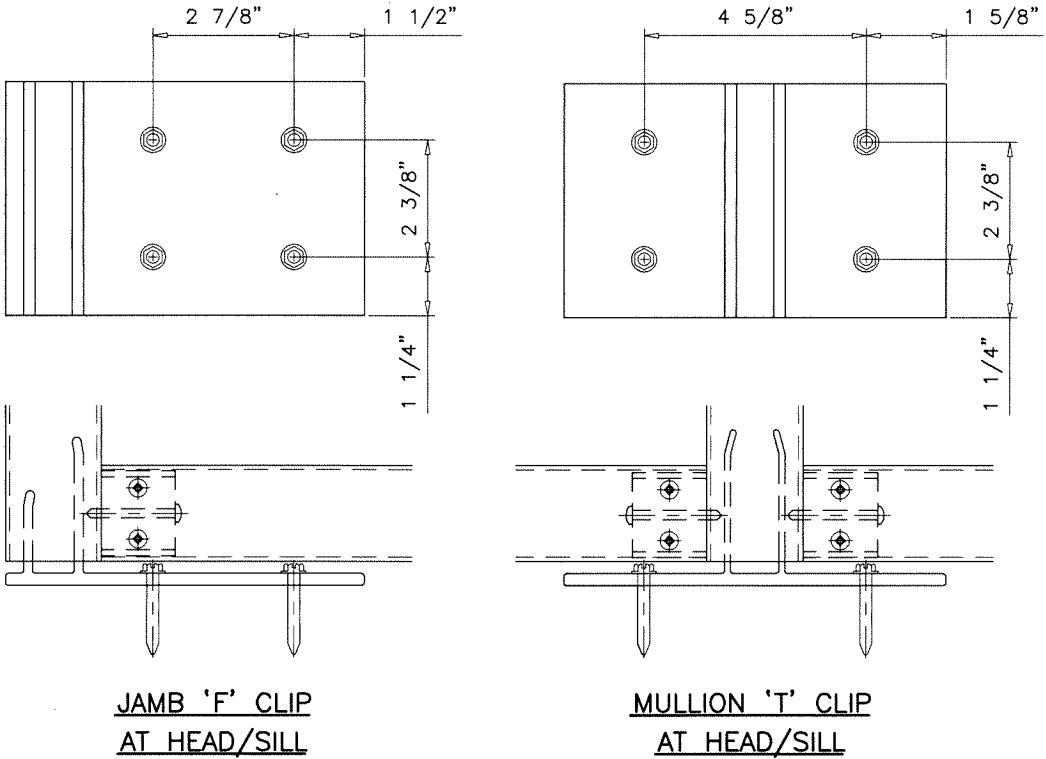
TYPE 'A'- 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
DIRECTLY INTO CONCRETE
1-3/4" MIN. EMBED INTO CONCRETE

TYPE 'B'- 1/4" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)
INTO METAL STRUCTURES
(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 = 1-3/4" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

CONCRETE AT HEAD OR SILL f'c = 3000 PSI MIN.



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revisions:

no	date	by	description

date: 06-26-20

scale: -

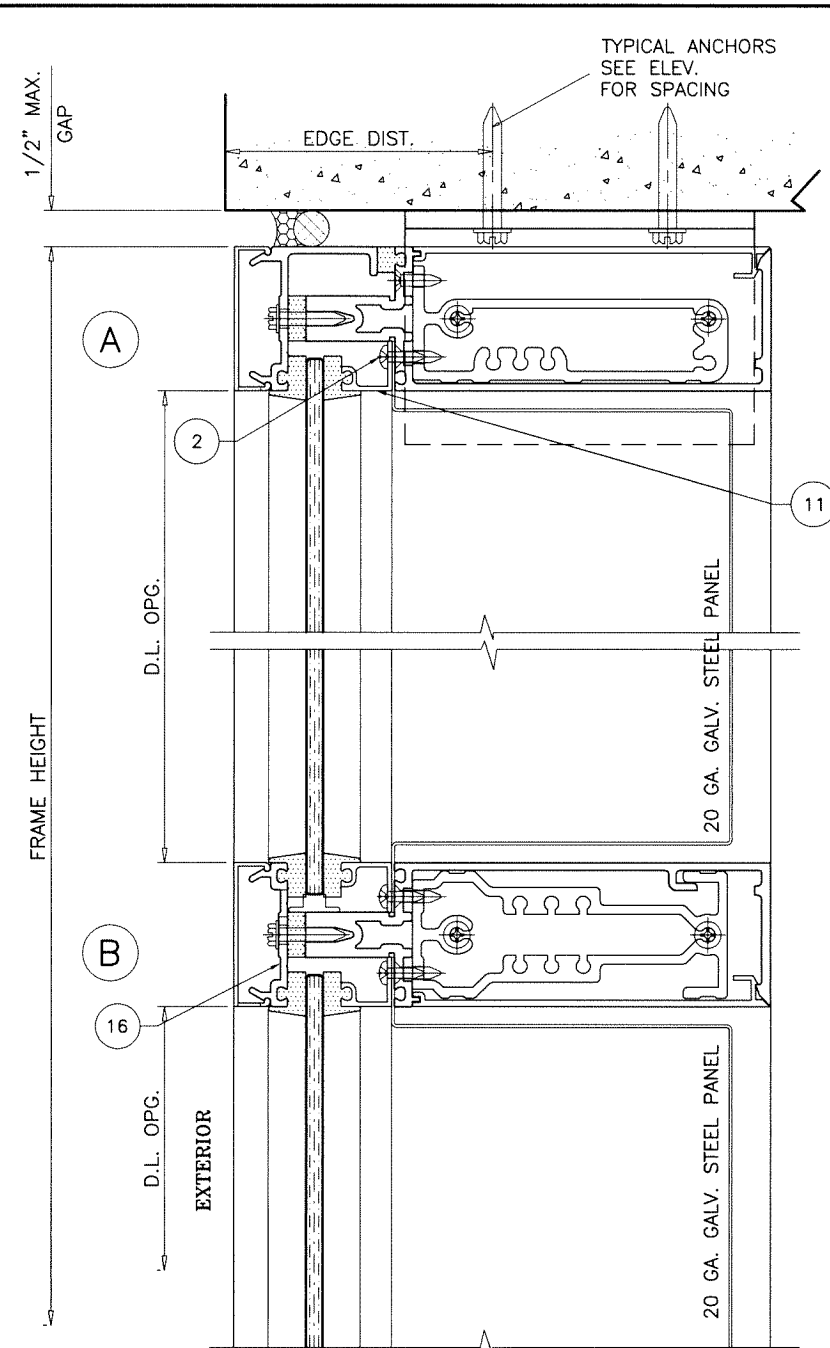
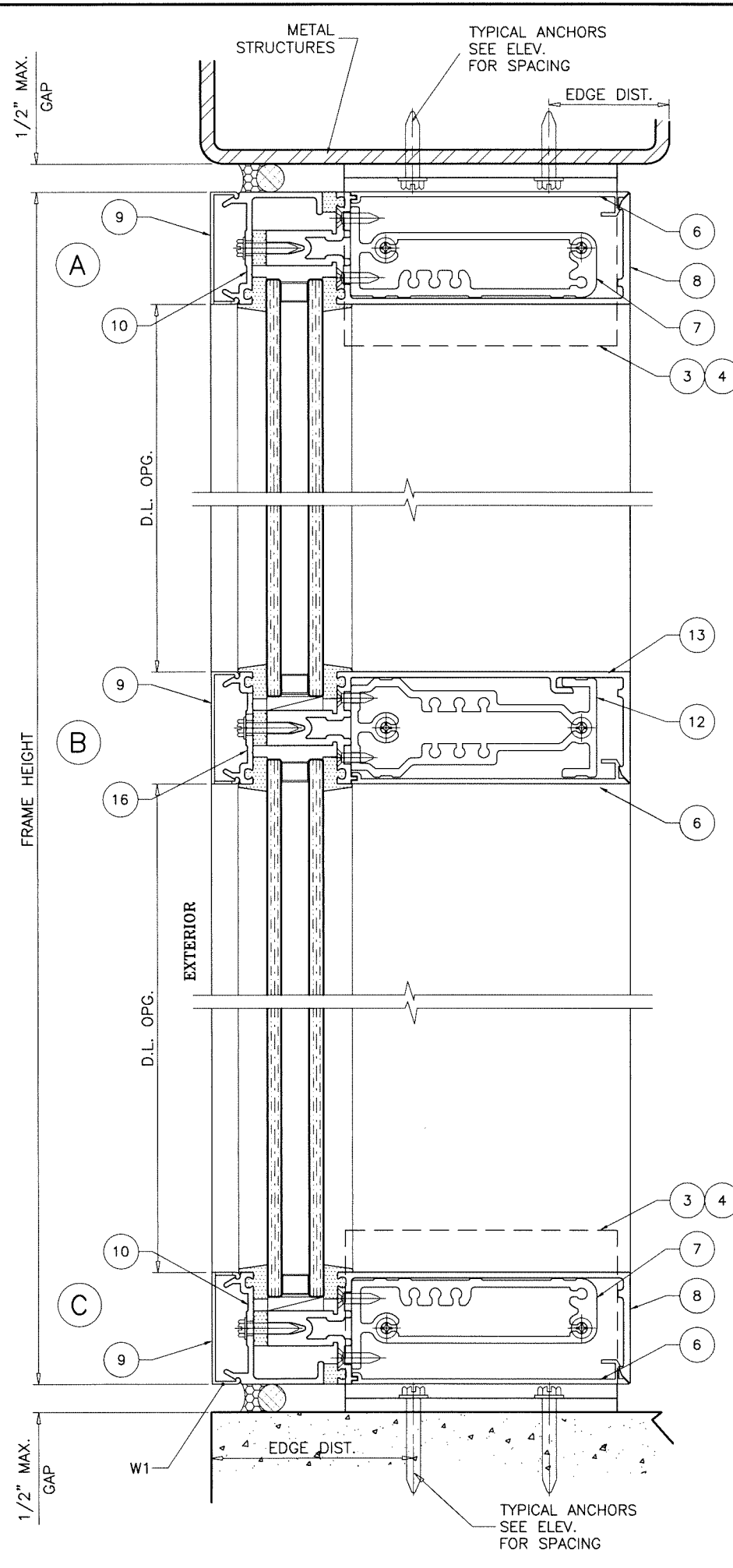
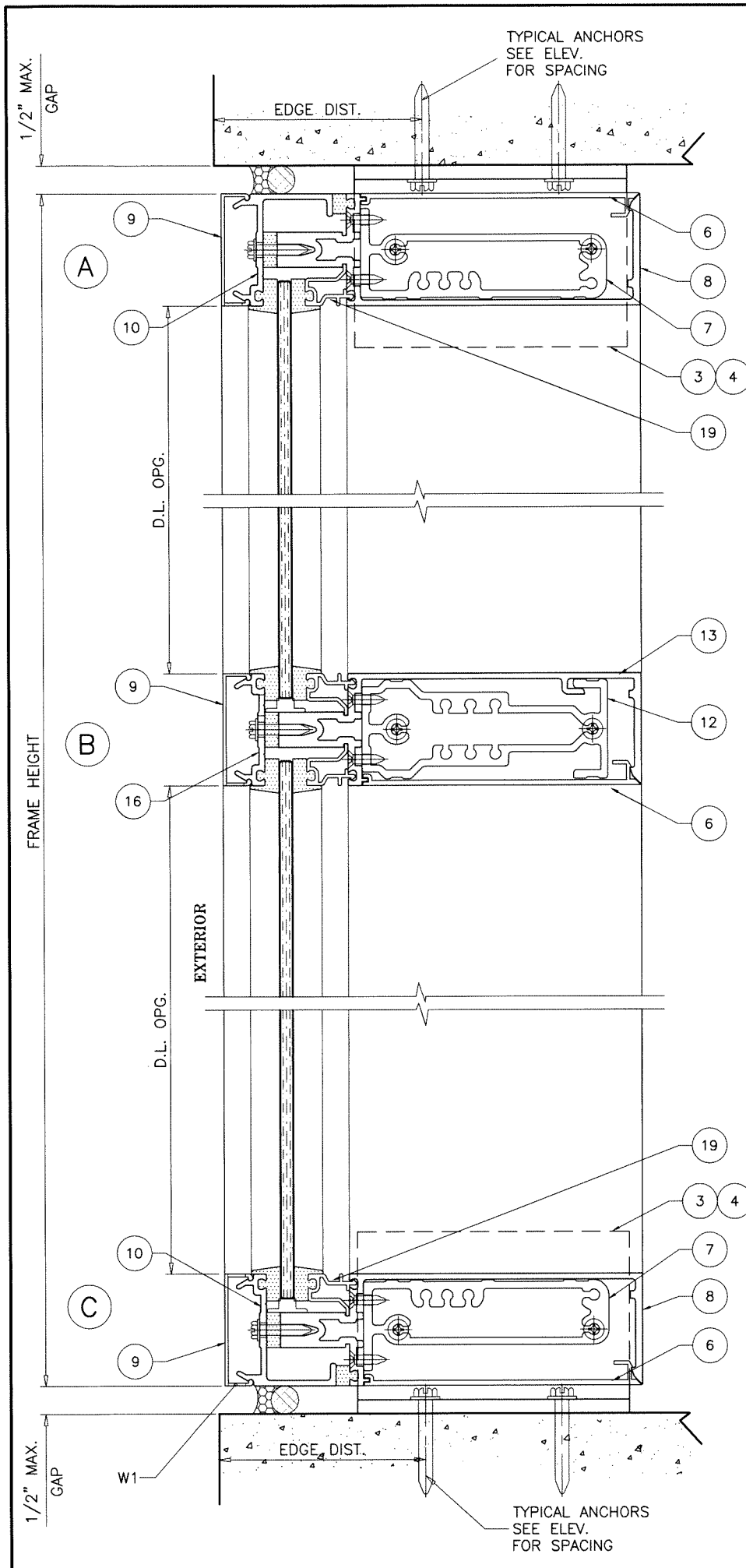
dr. by: TARIQ

chk. by: -

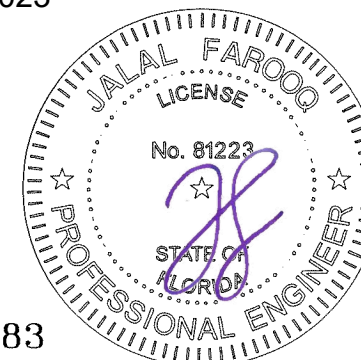
drawing no.

20-59F

sheet 4 of 10



Sealed: 7/18/2023



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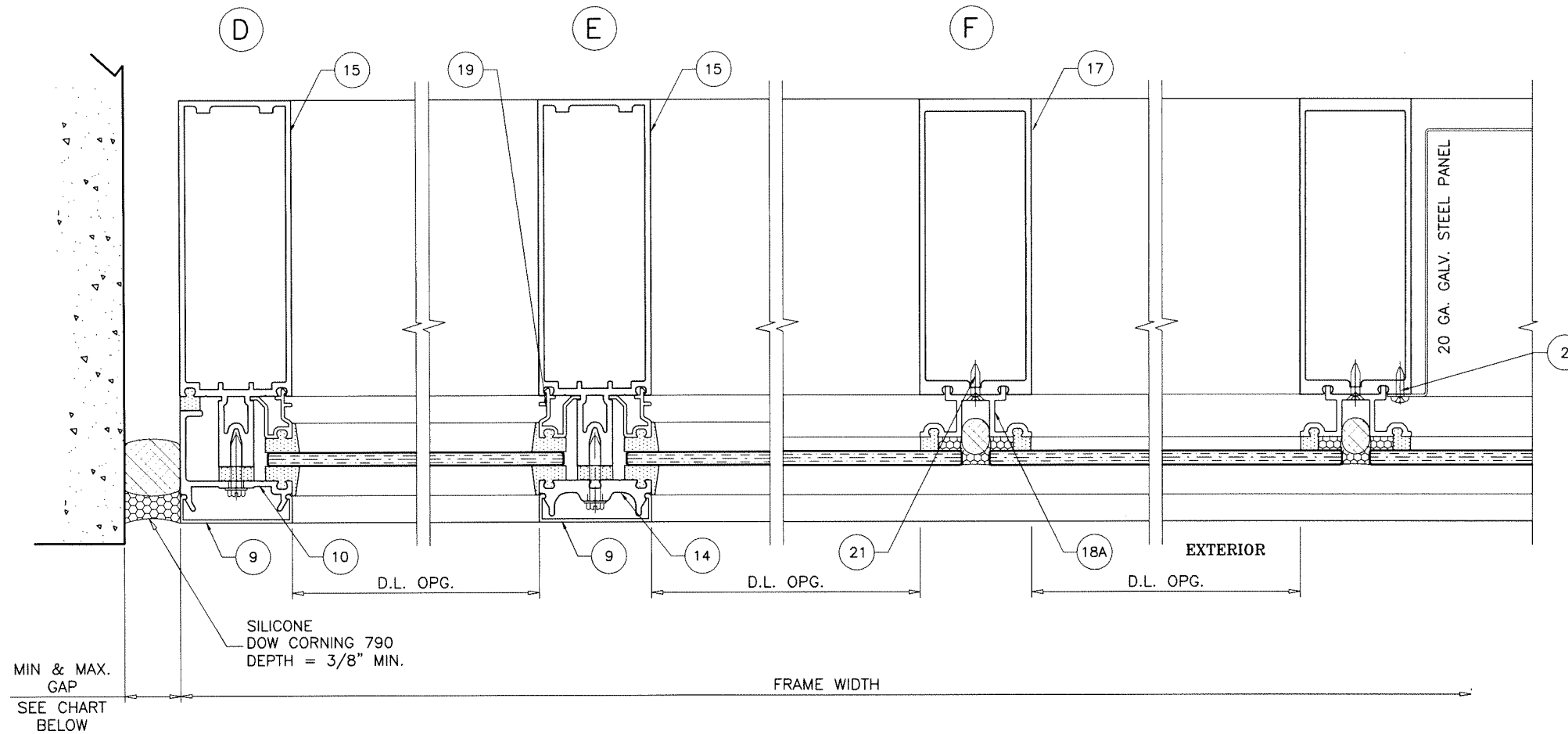
Kawneer Company, Inc.
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revisions:

no	date	description

date: 06-26-20
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

drawing no.
20-59F
sheet 5 of 10

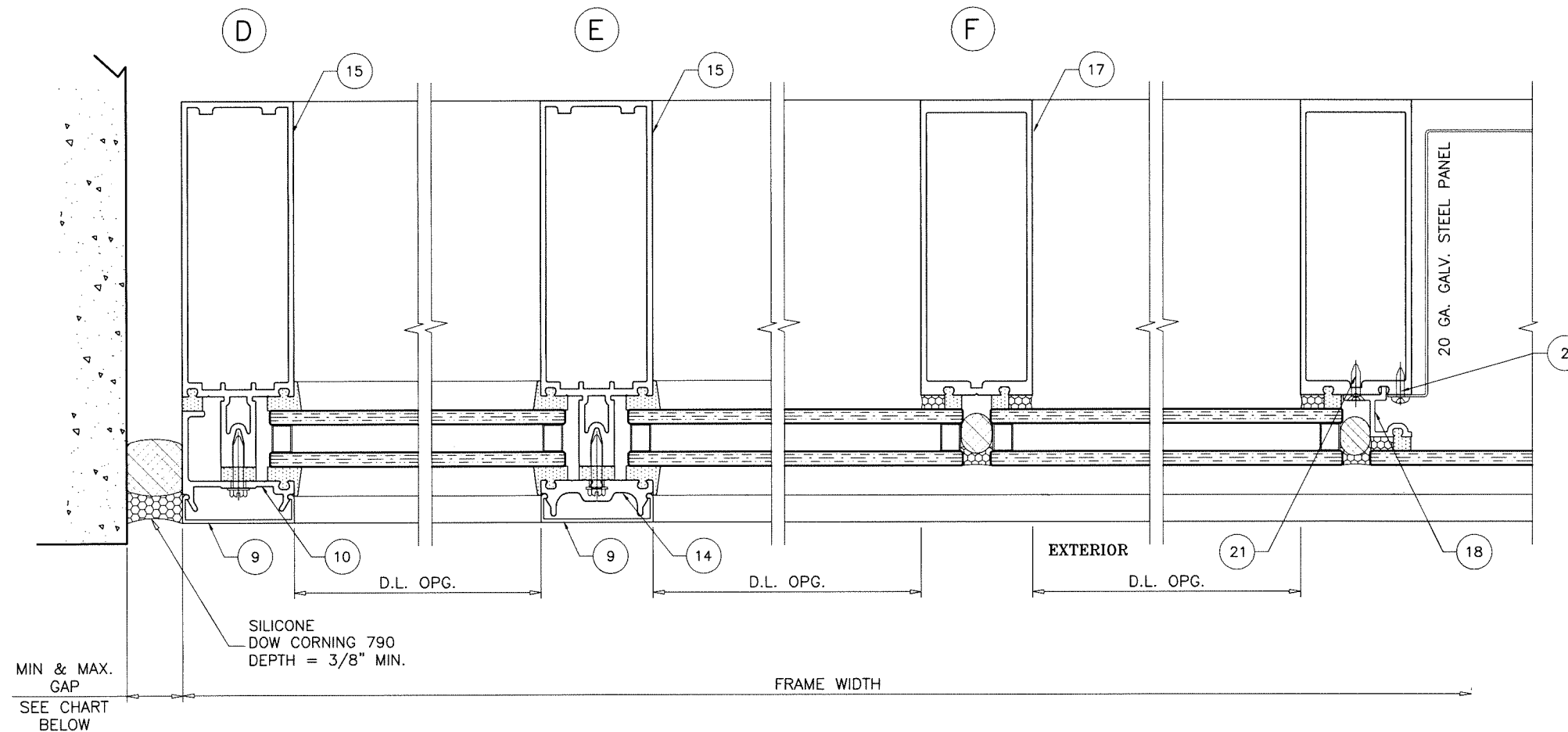


MAX. FRAME HEIGHT	GAP	
	MIN.	MAX.
114"	3/8"	3/4"
132"	1/2"	3/4"

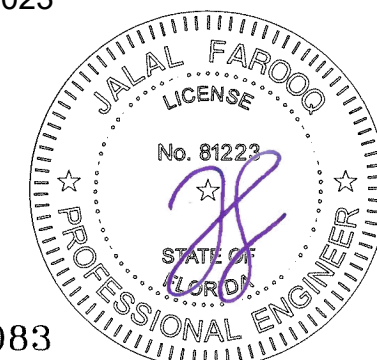
NOTE:
 MAX. MOVEMENT CONSIDERED=100% STRETCH.
 PLEASE REFER TO SEALANT MANUFACTURER'S DATA AND APPLICATION MANUAL FOR COMPATABILITY OF SEALANT TO SUBSTRATE & WINDOWALL MATERIAL/FINISH AND COMPLIANCE FOR WARRANTY.
 REFER TO ACI-117-10 FOR CONSTRUCTION TOLERANCES.

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.



Sealed: 7/18/2023

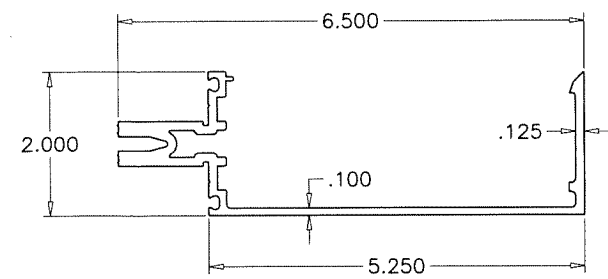


FL #17083

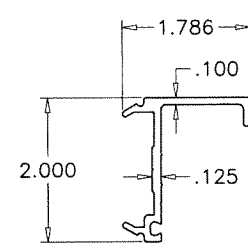
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 STORE 20-59F-KNA

1620/1620SSG ALUM CURTAIN WALL SYS. (N.I.)
Kawneer Company, Inc.
 555 Guthridge Ct. Technology Park/Atlanta
 Norcross, GA 30092
 Tel. (770) 449-5555 Fax. (770) 734-1560

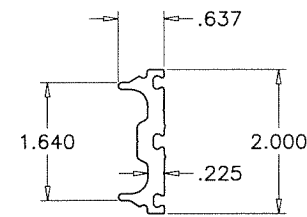
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dr. by:	TARIQ	chk. by:	
drawing no.	20-59F	sheet	6 of 10



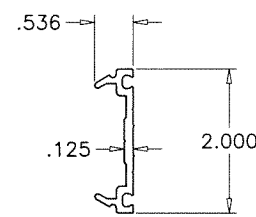
8 OPEN BACK HEAD/SILL



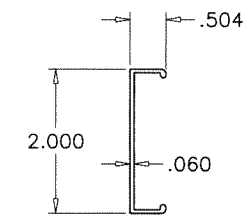
10 PERIMETER PRESSURE PLATE



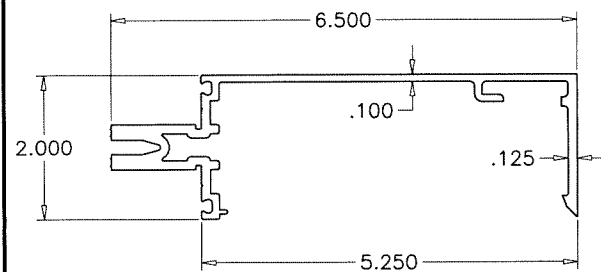
14 F/G PRESSURE PLATE



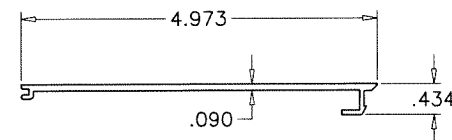
16 PRESSURE PLATE



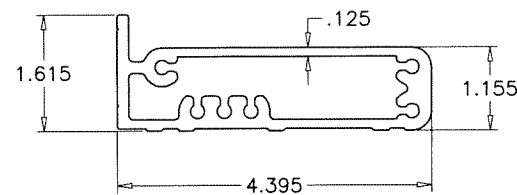
9 PRESSURE PLATE COVER



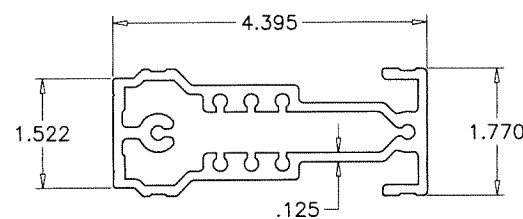
13 OPEN BACK HORIZONTAL



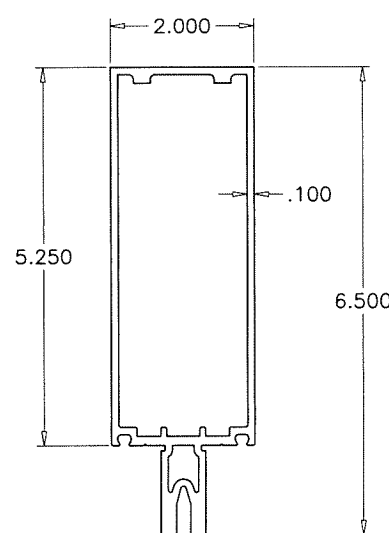
6 OPEN BACK FILLER



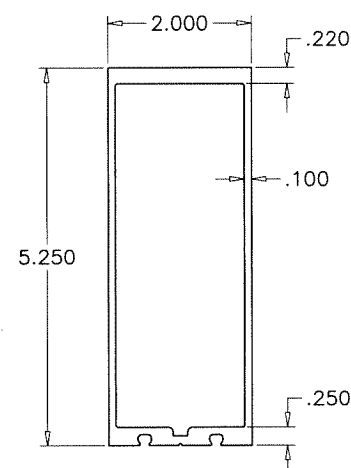
7 SHEAR BLOCK (HEAD/SILL)



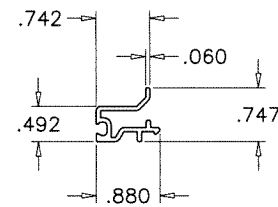
12 SHEAR BLOCK (INTERMEDIATE)



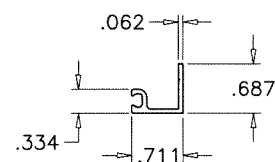
15 JAMB/MULLION



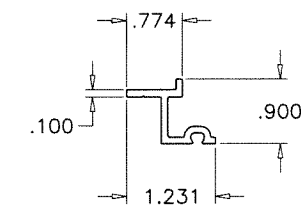
17 SSG HEAVY MULLION



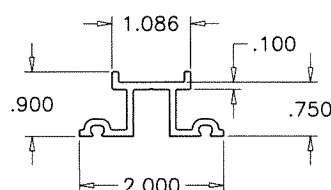
19 1/4" INFILL ADAPTER



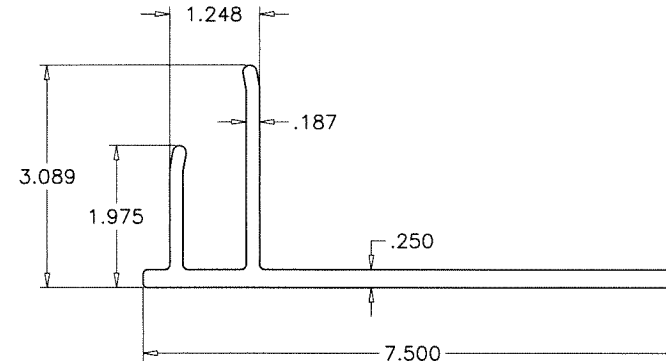
11 PANEL ADAPTER



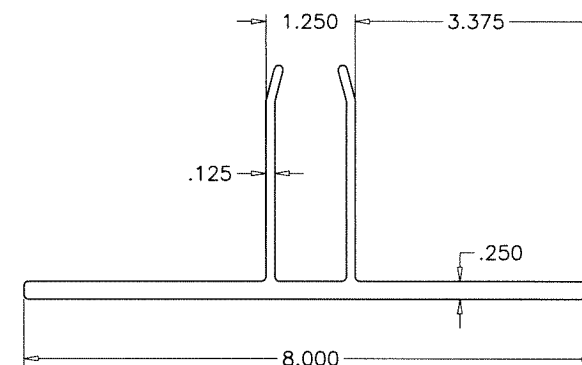
18 RSPE ADAPTER



18A RSPE ADAPTER

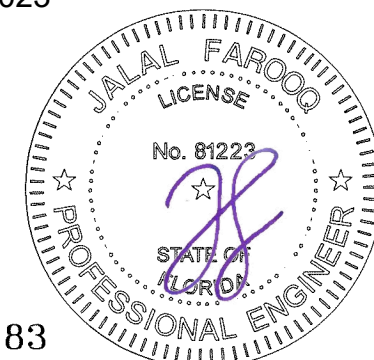


3 'F' ANCHOR CLIP



4 'T' ANCHOR CLIP

Sealed: 7/18/2023



FL #17083

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

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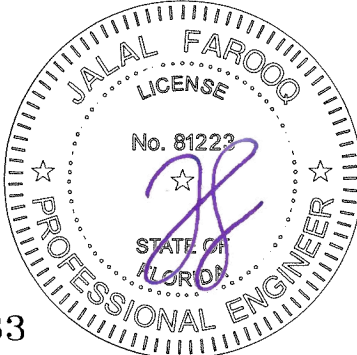
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chk. by:			
drawing no. 20-59F			
sheet 8 of 10			

drawing no.
20-59F

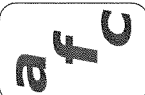
sheet 8 of 10

ITEM #	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	128930	AS REQD.	SHEAR BLOCK FASTENERS	ST/ST	#10 X 3/4" FH SMS
2	128496	AS REQD.	PANEL FASTENERS	ST/ST	#8-18 X 1/2" PH SELF DRILLING
3	178320	AS REQD.	'F' ANCHOR CLIP	6063-T6	-
4	178321	AS REQD.	'T' ANCHOR CLIP	6063-T6	-
5	128570	AS REQD.	SHEAR BLOCK FASTENERS	ST/ST	#10 X 1-7/8" PH SMS
6	162317	AS REQD.	OPEN BACK FILLER	6063-T6	-
7	178302	AS REQD.	SHEAR BLOCK (HEAD/SILL)	6063-T6	-
8	178009	AS REQD.	OPEN BACK (HEAD/SILL)	6063-T6	-
9	178006	AS REQD.	PRESSURE PLATE COVER	6063-T6	-
10	178305	AS REQD.	PERIMETER PRESSURE PLATE	6063-T6	-
11	178043	AS REQD.	PANEL ADAPTER	6063-T6	-
12	178304	AS REQD.	INTERMEDIATE SHEAR BLOCK	6063-T6	-
13	178013	AS REQD.	OPEN BACK HORIZONTAL	6063-T6	-
14	178339	AS REQD.	F/G PRESSURE PLATE	6063-T6	-
15	178003	AS REQD.	JAMB/MULLION	6063-T6	-
16	178300	AS REQD.	PRESSURE PLATE	6063-T6	-
17	178026	AS REQD.	SSG HEAVY MULLION	6063-T6	-
18	178045	AS REQD.	RSPE ADAPTER	6063-T6	-
18A	178046	AS REQD.	RSPE ADAPTER	6063-T6	-
19	178018	AS REQD.	1/4" INFILL ADAPTER	6063-T6	-
21	128328	AS REQD.	RSPE ADAPTER FASTENERS	ST/ST	#10 X 5/8" FH SELF DRILLING
A	027857	AS REQD.	PERIMETER GASKET	EPDM	DUROMETER 70±5 SHORE A
B	162310	AS REQD.	THERMAL SEPARATOR	EPDM	DUROMETER 60±5 SHORE A
C	128406	AS REQD.	PRESSURE PLATE FASTENERS	ST. STEEL	1/4" X 1-1/4" HWH THREAD CUTTING
D	027850	AS REQD.	GLAZING GASKET	EPDM	DUROMETER 60±5 SHORE A
H	027906	2/ LITE	SETTING BLOCKS, AT 1/4 POINTS (MONOLITHIC GLASS)	EPDM	DUROMETER 85±5 SHORE A
i	027858	2/ LITE	SETTING BLOCKS, AT 1/4 POINTS (INSUL. GLASS)	EPDM	DUROMETER 85±5 SHORE A
K	027475	AS REQD.	ADAPTER GASKET	EPDM	DUROMETER 60±5 SHORE A
-	-	-	-	-	-

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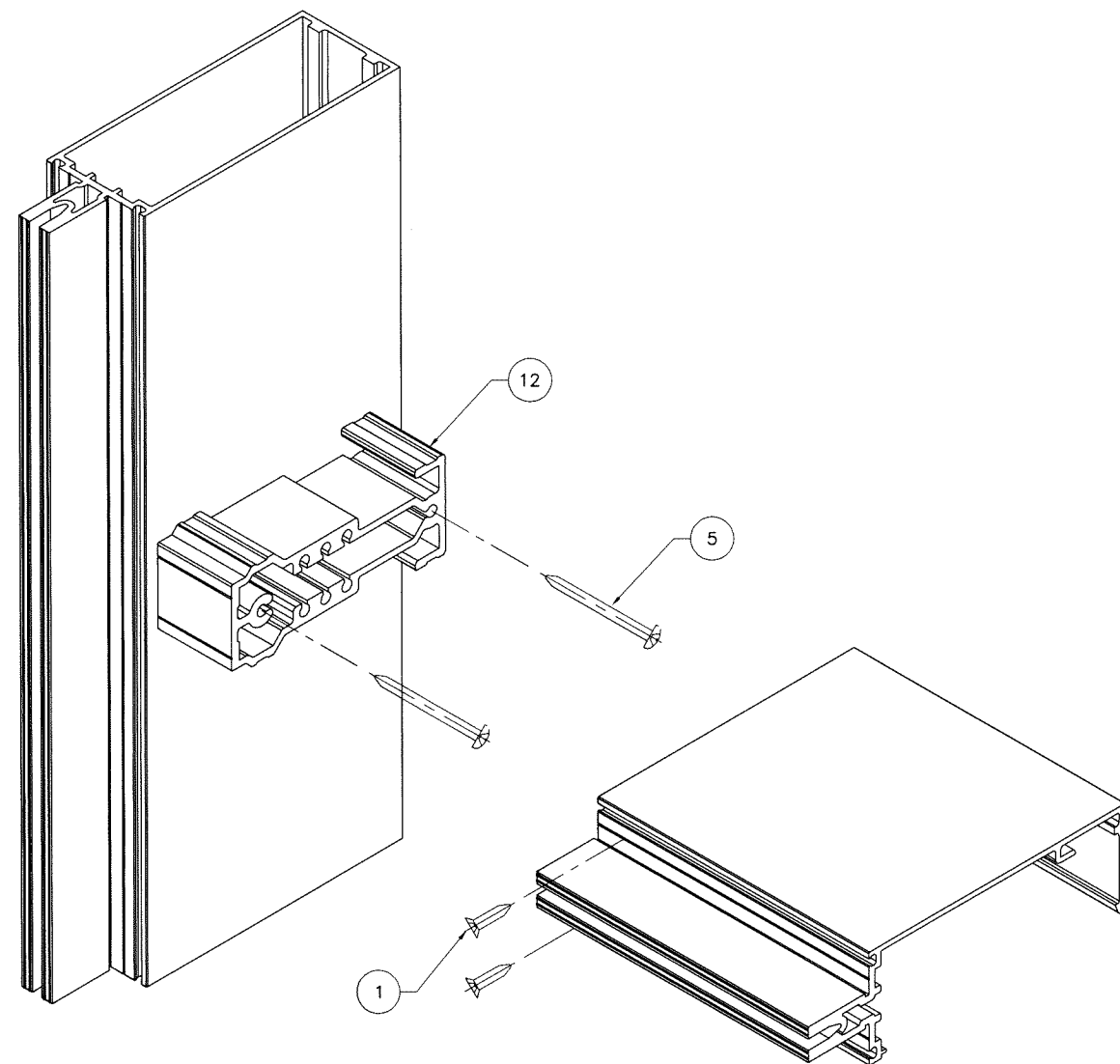
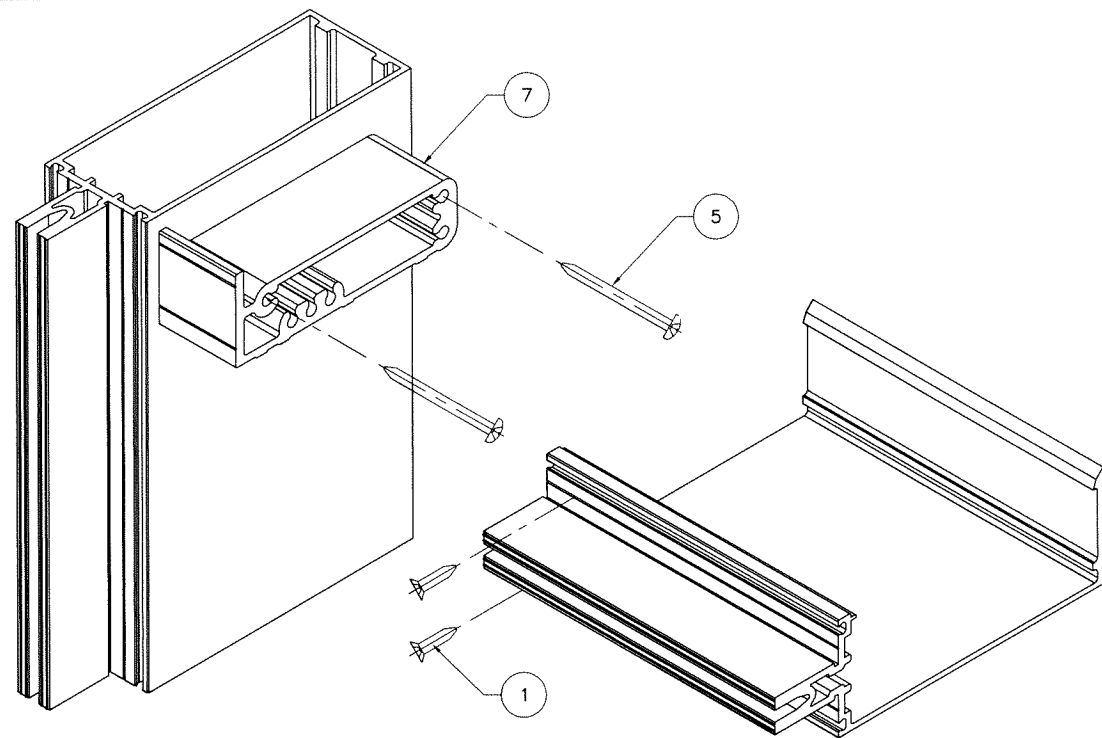
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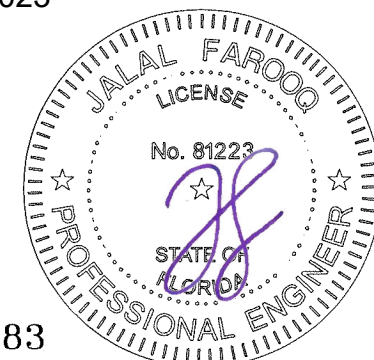
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