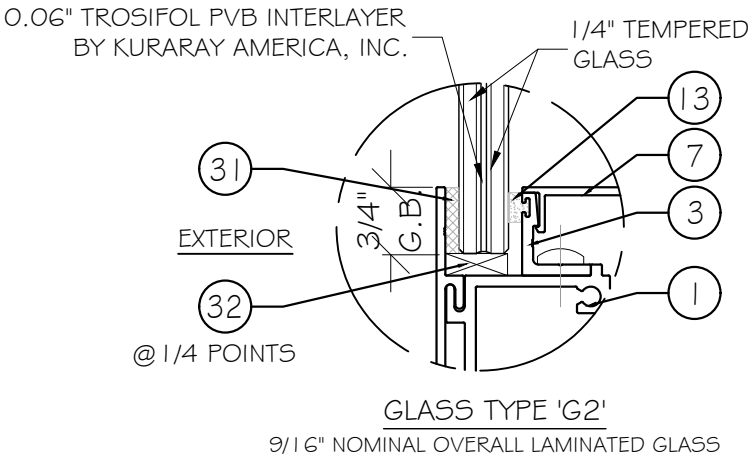
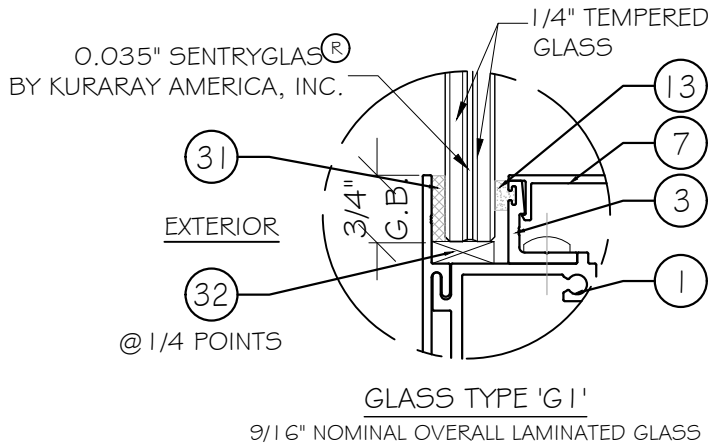


CONTINENTAL GLASS SYSTEMS, INC.
SERIES 3800 WINDOW WALL (S.M.I.)
IMPACT LEVEL "D"



GENERAL NOTES:

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 7TH EDITION OF FLORIDA BUILDING CODE (2020) INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
- WINDOW WALL RATED FOR SMALL MISSILE IMPACT, SYSTEM TESTED FOR IMPACT LEVEL "D". TO BE USED AT 30 FT ABOVE GRADE.
- THESE WINDOWS ARE APPROVED FOR AIR AND WATER INFILTRATION.
- ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS. ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
- ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.
- MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 6TH EDITION / 7TH EDITION OF FLORIDA BUILDING CODE (2017 / 2020) SECTION AS APPLICABLE.
- METAL STRUCTURAL AND/ OR WOOD STRUCTURAL BY OTHERS TO BE DESIGNED TO SUPPORT THE LOADS IMPOSED BY THIS GLAZING SYSTEM AND TO TRANSFER SUCH LOADS TO THE BUILDING MAIN STRUCTURE.
- ULTIMATE LOAD OBTAINED FROM ASCE 7-10 / ASCE 7-16, MULTIPLY BY 0.6 SHALL BE LESS THAN OR EQUAL TO MAX. DESIGN LOAD IN THIS DOCUMENT. THE DESIGN LOADS SHOWN IN THIS DOCUMENT ARE ALLOWABLE DESIGN LOADS.
- SEALANT
ALL FRAME CORNERS, JOINTS, MULLION SEAMS AND PERIMETER GLAZING BEAD TO FRAME INSTALLATION FASTENERS SEALED WITH SILICON SEALANT.

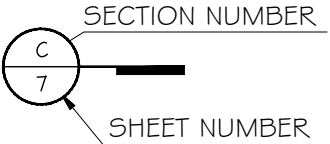
INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

- STEP 1:** DETERMINE DESIGN WIND LOAD REQUIREMENTS BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7-16 STANDARD.
- STEP 2:** SEE SHEET E1 & E2 FOR APPROVED WINDOW SIZE AND DESIGN LOAD.
- STEP 3:** SEE SHEET S1 FOR CAPACITY DUE TO SILICONE SEALANT WIDTH.
- STEP 4:** SEE SHEET A1 FOR APPROVED ANCHOR TYPE AND ANCHOR CAPACITY.
- STEP 5:** THE LOWEST VALUE RESULTING FROM STEPS 2 & 3 THAT EXCEED THE DESIGN WIND PRESSURES DETERMINED THOUGH STEP 1 SHALL APPLY TO ENTIRE SYSTEM

ABBREVIATIONS AND SYMBOLS

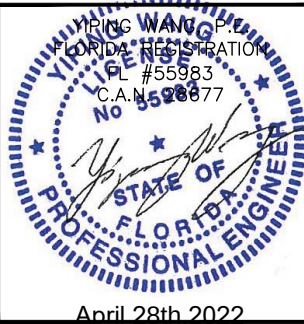
D.L.O. - DAYLITE OPENING
F.H. - FRAME HEIGHT
F.W. - FRAME WIDTH
W/ - WITH
W/O - WITHOUT
O.C. - ON CENTER



- LIMITATIONS OF USE**
- A- THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; I.E. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.E.D.
- B- 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.
- C- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
- D- 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.
- E- 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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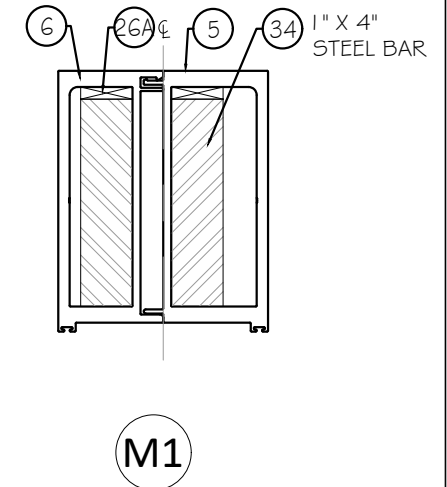
FL #17174



SERIES 3800 WINDOW WALL - S.M.I.
CONTINENTAL GLASS SYSTEMS INC.

MCY ENGINEERING, INC.
GLAZING CONSULTANTS
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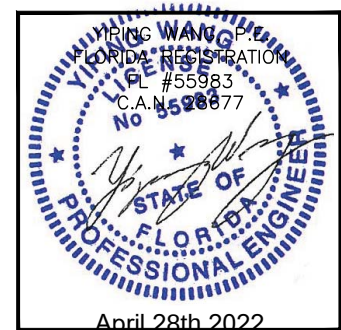
Rev.	Rev. No.	Date	Drawn By	Description
Rev. 2	04.04.2022	James		
Drawn Date	04.05.2022	Scale		
DRAWING NO.	AD22-11			
COVER				
Sheet No.	1 OF 9			



GLASS CAPACITIES CHART (GLASS TYPE "G1" & "G2")			
MAX. DLOW	MAX. DLOH	G.A.	Pd ALLOW
INCH	INCH	FT ²	(±) PSF
55.875	139.25	54.01	150

SEE SHEET A1 FOR
ANCHOR NUMBER AND
ANCHOR CAPACITY

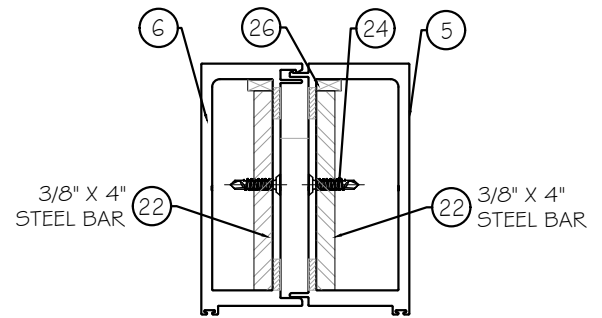
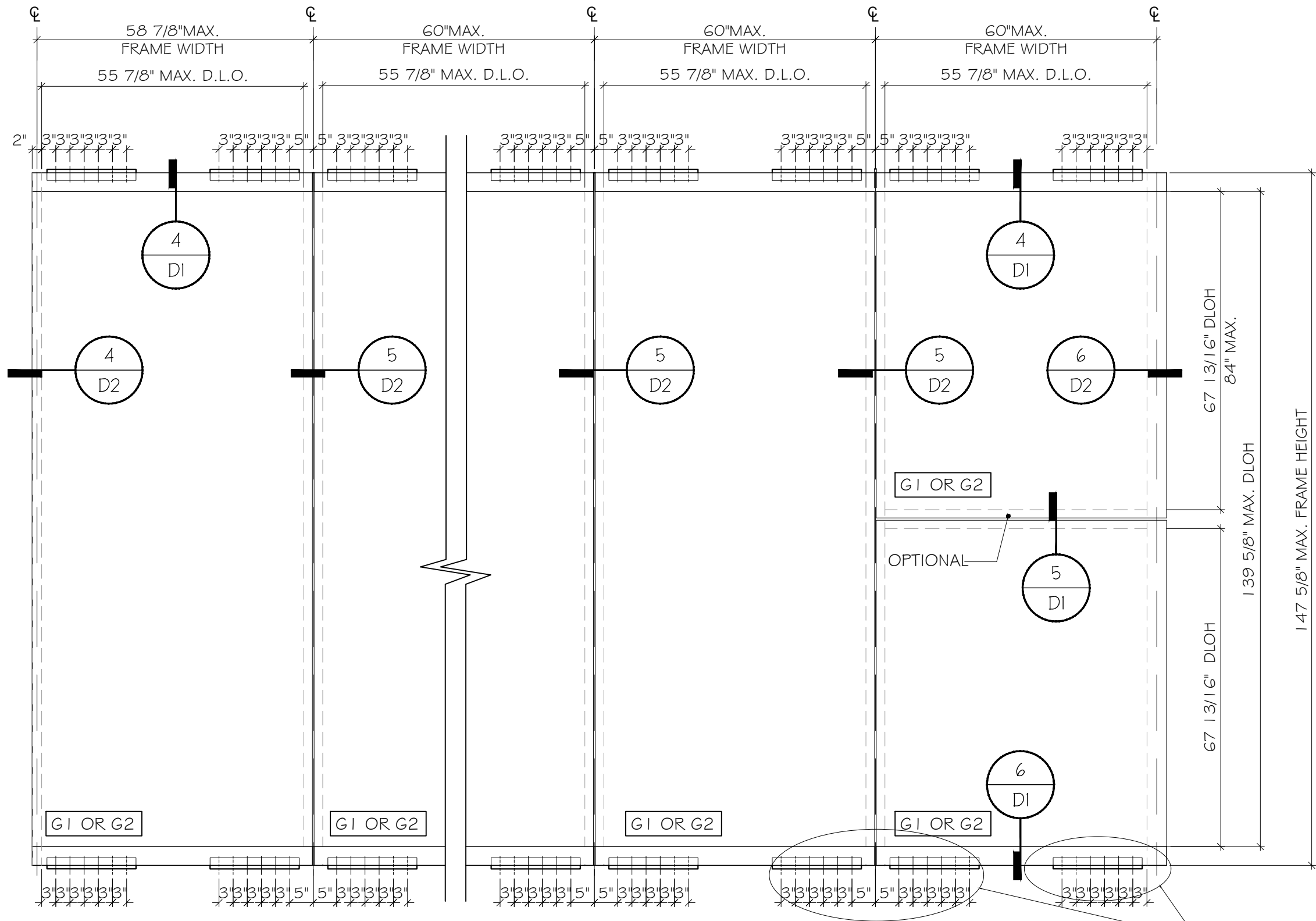
FLORIDA APPROVAL:
FL #17174

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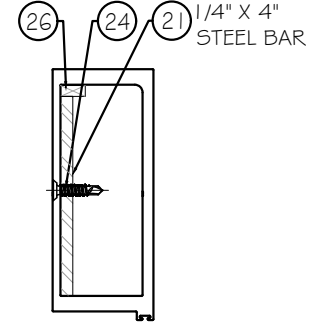
SERIES 3800 WINDOW WALL - S.M.I

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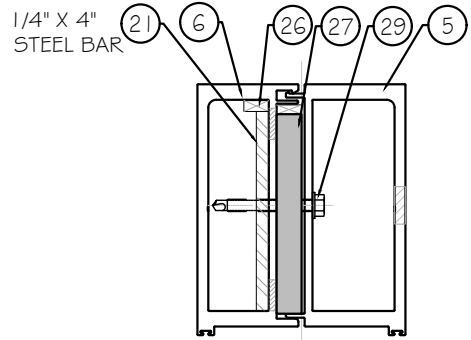
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M2



J2



J3

TYPICAL EXTERIOR ELEVATIONS

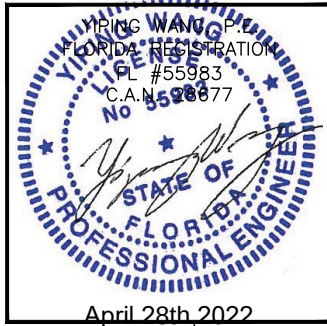
FOR SIZE SHOWN ABOVE OR SMALLER AS PERMITTED BY FBC

ALLOWABLE DESIGN LOAD (PSF)

MULLION & JAMB TYPE	FRAME WIDTH	FRAME HEIGHT	MAX. GLASS		Pd ALLOW	
			D.L.O.W	D.L.O.H	W/O HORIZ.	W/ HORIZ.
	IN.	IN.	IN.	IN.	PSF(±)	PSF(±)
M2, J2	60"	147 5/8"	55 7/8"	139 5/8"	89	83.4
M2, J3	60"	147 5/8"	55 7/8"	139 5/8"	89	89

SEE SHEET A1 FOR
ANCHOR NUMBER AND
ANCHOR CAPACITY

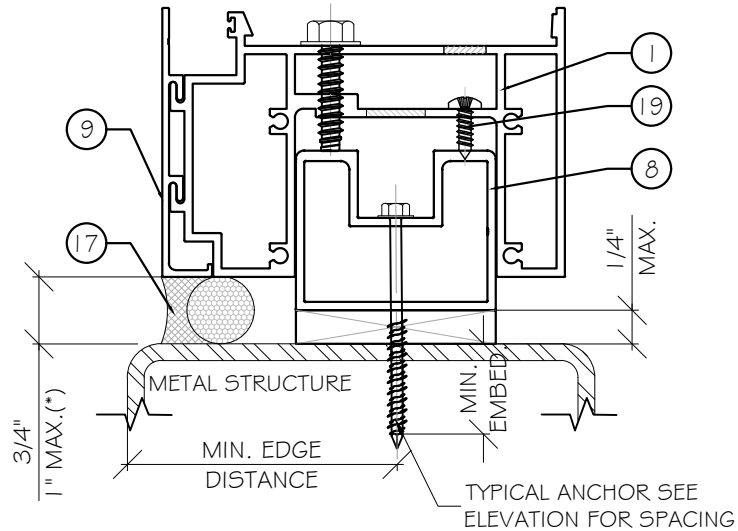
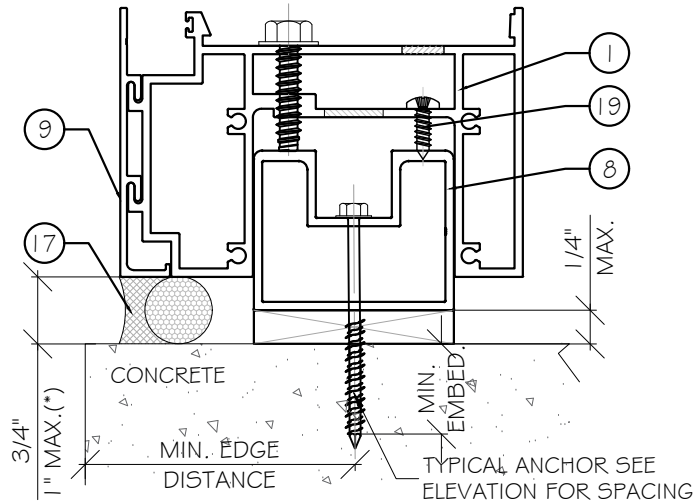
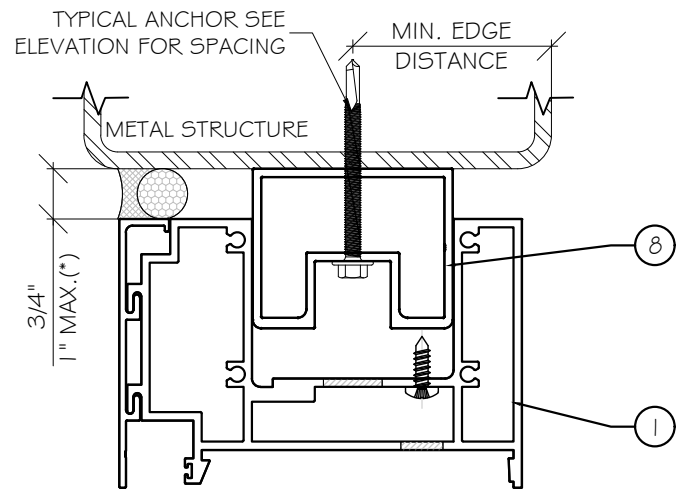
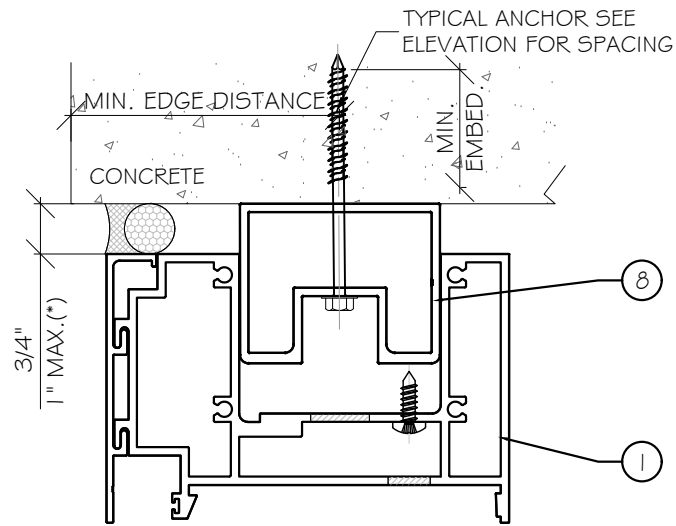
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SERIES 3800 WINDOW WALL - S.M.I.
CONTINENTAL GLASS SYSTEMS INC.
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Rev.	No.	Date	Drawn By	Description
Rev. 2	04.04.2022	James		UPDATE PANEL SIZE
Drawing No. AD22-11 Sheet No. 3 OF 9				



ANCHOR CAPACITY CHART (W 3/4" MAX. GAP)							
FW	FH	A4	A5	A6	B4	C4	C5
INCH	INCH	PSF(±)	PSF(±)	PSF(±)	PSF(±)	PSF(±)	PSF(±)
48.0	150.0	102.0	128.0	150.0	150.0	150.0	150.0
54.0	150.0	91.0	114.0	137.0	150.0	134.0	150.0
60.0	150.0	82.0	102.0	123.0	143.0	120.0	150.0
48.0	144	107.0	133.0	150.0	150.0	150.0	150.0
54.0	144	95.0	119.0	142.0	150.0	139.0	150.0
60.0	144	85.0	107.0	128.0	149.0	125.0	150.0

*NOTE: ABOVE CHART BASED ON FRAME TOP OR BOTTOM TO SUBSTRATE WITH 3/4" GAP, FOR GAP BEYOND 3/4" ANCHOR CAPACITIES TO BE CHECKED ON. JOB BASIS BY DELEGATED ENGINEER.

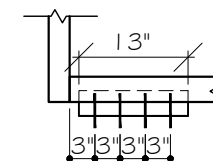
TYPICAL ANCHOR TYPES:
SEE ELEVATIONS FOR SPACING

TYPE "A": 5/16" DIA. ULTRACON+ BY 'DEWALT' ($F_u = 177$ KSI, $F_y = 155$ KSI)
2" MIN. EMBED DIRECTLY INTO CONCRETE ($f_c = 4000$ PSI MIN.)
3" MIN. EDGE DISTANCE

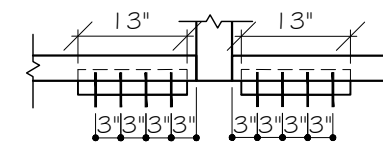
TYPE "B": 5/16" TEKS OR SELF DRILLING SCREW (GRADE 5) ($F_u = 120$ KSI, $F_y = 92$ KSI)
INTO STEEL STRUCTURES
STEEL : 1/8" THK. MIN. A36 MIN.
1" MIN. EDGE DISTANCE
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPE "C": 3/8" DIA. SCREW BOLT BY DEWALT ($F_u = 105$ KSI $F_y = 84$ KSI)
2" MIN. EMBED DIRECTLY INTO CONCRETE ($f_c = 4000$ PSI MIN.)
3" MIN. EDGE DISTANCE

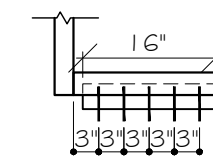
A4, B4, C4 - (4) ANCHOR TYPE "A" OR "B" OR "C" AT EACH SIDE OF MULLION OR JAMB
A5, C5 - (5) ANCHOR TYPE "A" OR "C" AT EACH SIDE OF MULLION OR JAMB
A6 - (6) ANCHOR TYPE "A" AT EACH SIDE OF MULLION OR JAMB



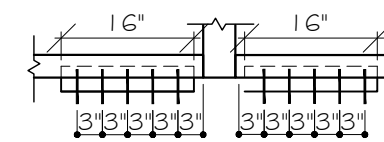
A4, B4, C4



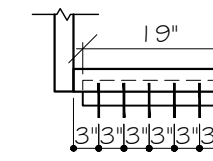
A4, B4, C4



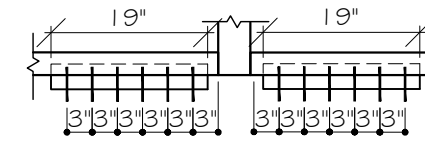
A5, C5



A5, C5

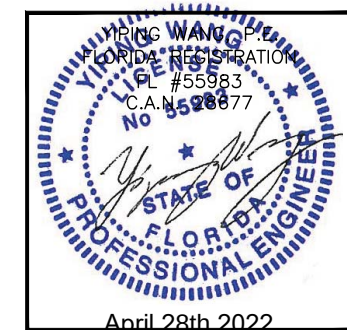


A6



A6

FLORIDA APPROVAL:
FL #17174



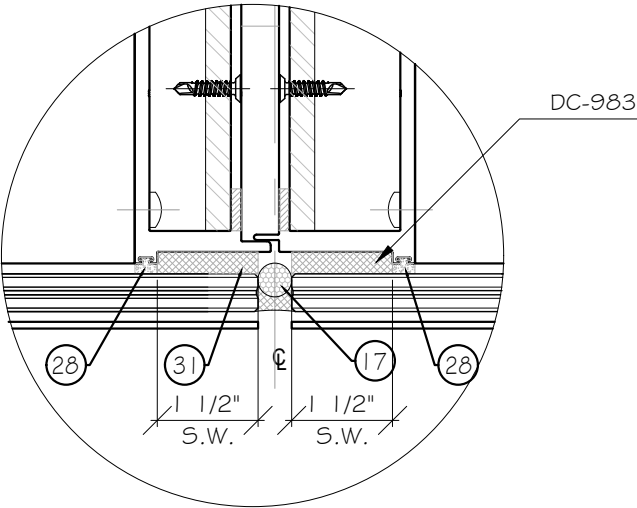
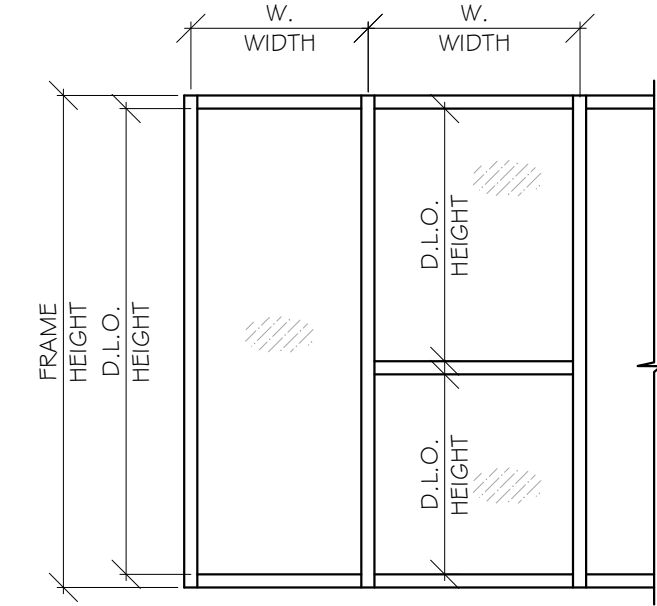
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SERIES 3800 WINDOW WALL - S.M.I
CONTINENTAL GLASS SYSTEMS INC.

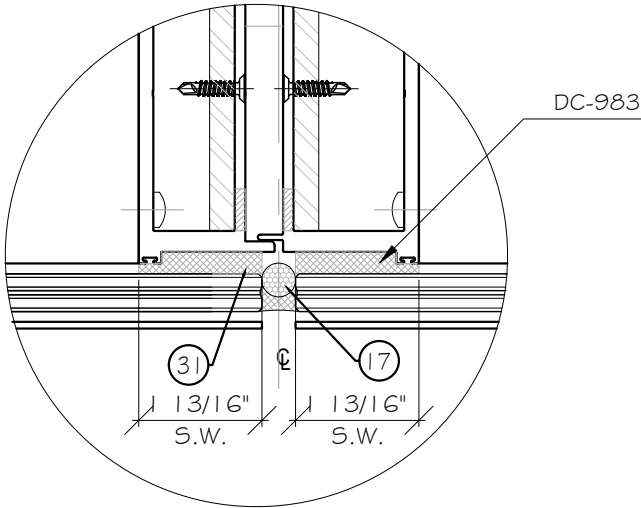
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Rev.	Rev. No.	Date	Drawn By	Description
Rev. 2	04.04.2022	James		
Drawn Date 04.05.2022 Scale				
DRAWING NO. AD22-11				
A1				
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SILICONE CAPACITY CHART		
Mullion WIDTH(W) INCH	SILICONE WIDTH	ALLOWABLE CAPACITIES
	1 1/2"	1 13/16"
48.0	150.0	150.0
50.0	150.0	150.0
54.0	150.0	150.0
60.0	144.0	150.0

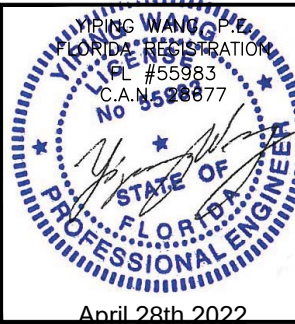


OPTION 1



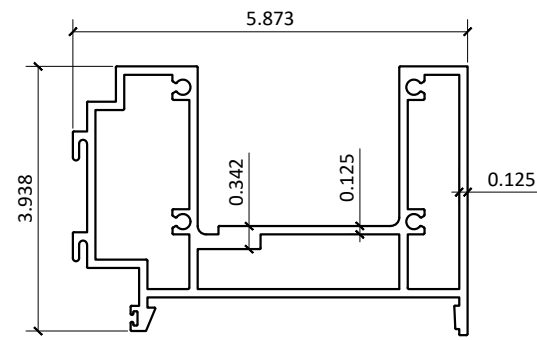
OPTION 2

FLORIDA APPROVAL:
FL #17174

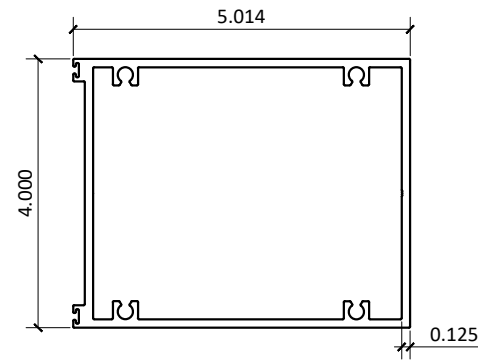


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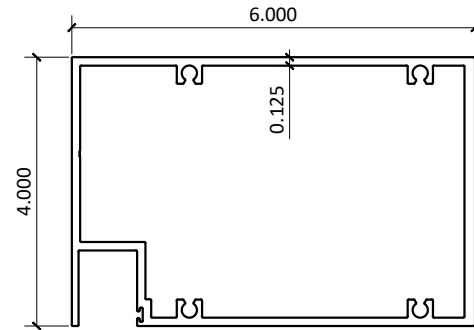
Rev. No.	Date	Drawn By	Description
Rev. 2	04.04.2022	James	UPDATE PANEL SIZE
Drawn Date	04.05.2022	Scale	
DRAWING NO. AD22-11			
S1			
Sheet No. 5 OF 9			



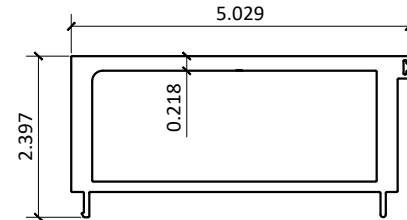
① HORIZONTAL
3800-88 ALUMINUM 6005-T5



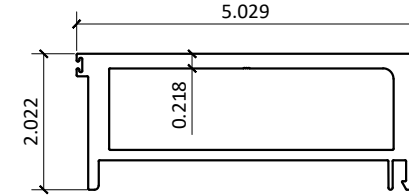
② INTERMEDIATE HORIZONTAL
3800-02 ALUMINUM 6005-T5



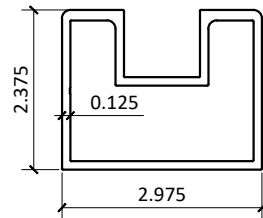
④ JAMB MULLION
3800-04 ALUMINUM 6005-T5



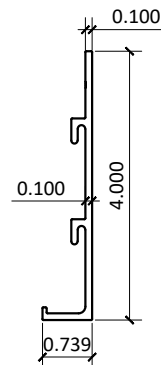
5 MALE MULLION
3800-05 ALUMINUM 6005-T5



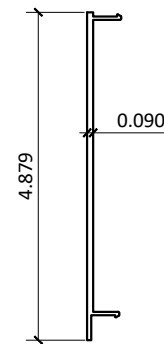
6 FEMALE MULLION
3800-06 ALUMINUM 6005-T5



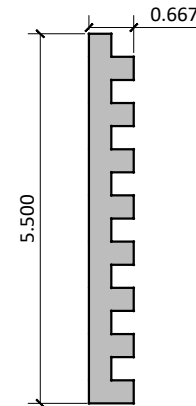
⑧ ANCHOR TUBE (13" LONG)
3800-08 ALUMINUM 6005-T5



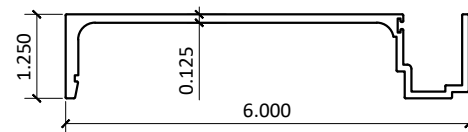
⑨ TOP & BOTTOM FACE COVER
3800-09 ALUMINUM 6005-T5



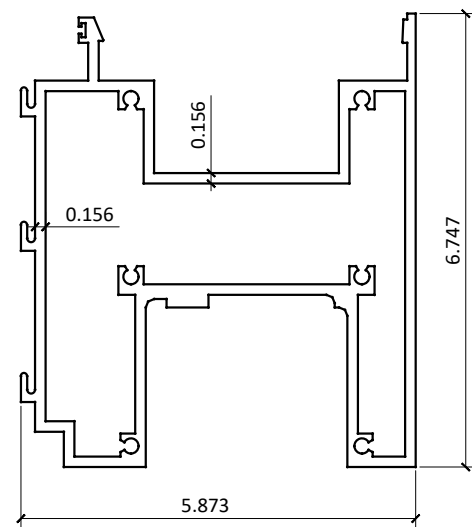
20 INTERIOR COVER
3800-III ALUMINUM 6005-T5



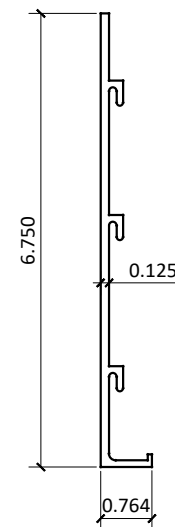
33 ALUM. REINFORCE
2800-93 ALUM. 6005-T5



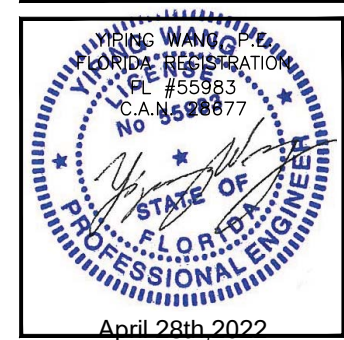
15 FEMALE
3000-06 ALUMINUM 6005-T5



11 HORIZONTAL
3800-12 ALUMINUM 6005-T5



12 HORIZONTAL COVER
3800-13 ALUMINUM 6005-T5



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Rev. No.	Date	Drawn By	Description	
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SERIES 3800 WINDOW WALL - S.M.I

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BILL OF MATERIALS				
ITEM	PART	DESCRIPTION	MATERIAL	REMARKS
1	3800-88	TOP & BOTTOM HORIZONTAL	ALUMINUM 6005-T5	
2	3800-02	INTERMEDIATE HORIZONTAL	ALUMINUM 6005-T5	
3	NOT USED			
4	3800-04	JAMB MULLION	ALUMINUM 6005-T5	
5	3800-05	MALE MULLION	ALUMINUM 6005-T5	
6	3800-06	FEMALE MULLION	ALUMINUM 6005-T5	
7		1/8" X 1/2" X 4" LG TPV 85 DURO	TPV	
8	3800-08	ANCHOR TUBE	ALUMINUM 6005-T5	
9	3800-09	TOP & BOTTOM FACE COVER	ALUMINUM 6005-T5	
10	NOT USED			
11	3800-12	HORIZONTAL	ALUMINUM 6005-T5	
12	3800-13	HORIZONTAL COVER	ALUMINUM 6005-T5	
13	CGS-02	GLASS SPACER		CENTRAL PLASTIC
14		SPACING GASKET		CENTRAL PLASTIC
15	3000-06	FEMALE	ALUMINUM 6005-T5	
16		#14X1" LG. PH-PH S.M.S. S/S ASSEMBLY SCREW	STAINLESS STEEL	
17		PERIMETER SILICONE DOW CORNING 795 SEAL AND BACKER ROD		
18		7/8" X 1" X 1/16" ALUM. ANGLES 4" LONG, @ 1/4 POINTS	ALUMINUM 6061-T6	
19		#14X1/2" LG. PH-PH S.M.S. S/S ASSEMBLY SCREW	STAINLESS STEEL	
20	3800- III	INTERIOR COVER	ALUMINUM 6005-T5	
21		1/4" X 4" STEEL BAR, FULL LENGTH	STEEL A36	
22		3/8" X 4" STEEL BAR, FULL LENGTH	STEEL A36	
23		#10X3/4" LG. PH-PH S.M.S. 304 S/S ASSEMBLY SCREW	STAINLESS STEEL	
24		#12-14X1" LG. FH SDS DRILL - FLEX STALGARD GB (CW) (1) @6" FROM EACH ENDS ONE @ CENTER	STAINLESS STEEL	
25		#10X3/4" LG. PH-FH S.M.S. TYPE AB 300 SERIES SS (CW)	STAINLESS STEEL	
26		7/32"X1/2"X6" LG ALUM SHIMS, (5) @EQ. SPACES		
26A		3/16"X1"X6" LG ALUM SHIMS, (5) @EQ. SPACES		
27		1/2" THICK ALUM PLATE 12" LONG.	ALUMINUM 6061-T6511	
28	CGS-01	GLASS SPACER		CENTRAL PLASTIC
29		1/4" -14 X 2" LG. HWH SDS DRILL-FLEX STALGARD GB (CW), (1) @6" FROM EACH ENDS, (1) @ CENTER	STAINLESS STEEL	
30		DOWSIL 795	SILICONE	
31		DOWSIL 983/DOWSIL 121/DOWSIL 995	SILICONE	
32		1/4" X 3/4" X 4" LG. SETTING BLOCK, DUROMETER HARDNESS 90±5%	TPV	
33	2800-93	ALUM. REINFORCE	ALUMINUM. 6005-T5	
34		1" X 4" STEEL BAR, FULL LENGTH	STEEL A36	
35		#14" -14 X 2" LG. FH. S.S. TEKS SECRW, (2) @6" FROM ENDS, (1) @ CENTER	STAINLESS STEEL	

FLORIDA APPROVAL:
FL #17174

YIPING WANG
FLORIDA REGISTRATION
PL #55983
C.A.N. 8877

April 28th, 2022

Rev. 204.04.2022James

Rev. No.

Drawn Date04.05.2022

Scale

DRAWING NO.
AD22-11

PART

Sheet No.
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UPDATE PANEL SIZE

Description

Drawn By

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