

PRODUCT APPROVAL FOR SERIES FG-2000 STOREFRONT HIGH A.S.D. DESIGN PRESSURE
W/ NON IMPACT MONOLITHIC TEMPERED GLASS

GENERAL NOTES:

1. SERIES FG-2000 STOREFRONT HIGH DESIGN PRESSURE W/ NON IMPACT MONOLITHIC TEMPERED GLASS, SHOWN ON THIS PRODUCT EVALUATION DOCUMENT (P.E.D) HAS BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE W/ 2014 (5th EDITION) OF THE FLORIDA BUILDING CODE. THIS PRODUCT MAY BE INSTALLED WITHIN HIGH & NON HIGH VELOCITY HURRICANE ZONES W/ LIMITATIONS AS PER NOTE 3 BELOW.
- DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTIONS 1620 (FOR HIGH VELOCITY HURRICANE ZONES) & 1609 (FOR NON HIGH VELOCITY HURRICANE ZONES) OF THE ABOVE MENTIONED CODE.
- FOR A BASIC WIND SPEED AS REQUIRED BY THE JURISDICTION WHERE THIS PRODUCT WILL BE INSTALLED FOR A DIRECTIONALITY FACTOR $K_d=0.85$. USING ASCE 7-10 FOR INSTALLATIONS UNDER 2014 FBC AND SHALL NOT EXCEED THE MAXIMUM (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON NOTE 2.
- IN ORDER TO VERIFY THE ABOVE CONDITION, ULTIMATE DESIGN WIND LOADS DETERMINED PER ASCE 7-10 SHALL BE FIRST REDUCED TO A.S.D. DESIGN WIND LOADS BY MULTIPLYING THEM BY 0.6 IN ORDER TO TO COMPARE THESE W/ MAX. (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON NOTE 2.
- IN ORDER TO VERIFY THAT ANCHORS ON THIS P.E.D., AS TESTED, WERE NOT OVERSTRESSED, A 33% INCREASE IN ALLOWABLE STRESS FOR WIND LOADS WAS **NOT** USED IN THEIR ANALYSIS. FASTENERS SPACING TO WOOD HAS BEEN DETERMINED IN ACCORDANCE WITH N.D.S. 2012 OR AVAILABLE TEST DATA FROM MANUFACTURER.
- THIS PRODUCT'S ADEQUACY FOR WIND RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTIONS 1625 (EXCEPT 1625.4) & 1710.5.2 OF THE ABOVE MENTIONED CODE AS PER PROTOCOL TAS-202 AND ASTM E330, PER ARCHITECTURAL TESTING, INC. LABORATORY REPORT # 99493.01-801-44 AND AS PER STRUCTURAL CALCULATIONS, PERFORMED AS PER SECTIONS 1604 & 1616 OF THE FLORIDA BUILDING CODE.
2. MAXIMUM A.S.D. DESIGN PRESSURE RATING FOR THIS PRODUCT SHALL BE AS SHOWN ON SHEETS 3, 5, 6A & 7
3. THIS PRODUCT WILL REQUIRE AN APPROVED HURRICANE PROTECTION DEVICE IN ORDER TO RATE IT AS IMPACT RESISTANT. IF PRODUCT IS NOT PROTECTED WITH AN APPROVED HURRICANE PROTECTIVE DEVICE, THEN IT SHALL BE INSTALLED OUT OF THE HIGH VELOCITY HURRICANE ZONE AND OUT OF ANY WIND-BORNE DEBRIS REGIONS, AS DEFINED ON SECTION 1609.2 OF THE FLORIDA BUILDING CODE
4. THIS PRODUCT IS APPROVED FOR 12.11 p.s.f. AIR/WATER INFILTRATION.
5. TEMPERED GLASS TO COMPLY WITH SECTIONS 2411.1.3 OF THE FLORIDA BUILDING CODE. PRODUCT SHALL COMPLY WITH SECTIONS 2406.1, 2411.4.1 AND 2411.4.2 OF THE FLORIDA BUILDING CODE.
6. PROVIDE 3/8" MAX. LOAD BEARING SHIM SPACE (TYP.), WHEN ALLOWED BY THIS DRAWING.
7. WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE BUILDING STRUCTURE. WOOD BUCKS MUST BE SOUTHERN PINE, WITH $G = 0.55$.
8. REMAINING COMPONENTS FOR THIS PRODUCT SHALL BE AS INDICATED ON BILL OF MATERIALS, SHEET 3 OF THIS DRAWING.
9. ALL ALUMINUM EXTRUSIONS IN CONTACT WITH STEEL, CONCRETE AND WOOD SHALL COMPLY WITH SECTIONS 2003.8.4.2, 2003.8.4.4, 2003.8.5 AND 2003.8.6 OF THE FLORIDA BUILDING CODE, RESPECTIVELY.
10. SHOP DRAWINGS PREPARED BASED ON THIS APPROVAL AND TAKING INTO ACCOUNT THE SPECIFIC JOB CONDITIONS, SHALL BE SUBMITTED TO THE BUILDING OFFICIAL AS PART OF THE PERMIT DOCUMENTS.
11. STRUCTURAL SUBSTRATES NOTED ON THIS DRAWING AS EXISTING STEEL BY OTHERS, POURED CONCRETE, HOLLOW BLOCK AND WOOD MUST WITHSTAND THE LOADS IMPOSED BY THIS PRODUCT.
12. (a) THIS 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 INCLUDING LIFE SAFETY OF THIS PRODUCT, BASED ON THIS P.E.D. PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT. CONSTRUCTION SAFETY AT SITE IS THE CONTRACTOR'S RESPONSIBILITY.
- (c) THIS P.E.D. 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. 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.
- (e) ORIGINAL P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

13. PRODUCT MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION AT PRODUCT IN ACCORDANCE WITH SECTION 1710.5 OF THE FLORIDA BUILDING CODE. ONE LABEL SHALL BE PLACED FOR EVERY OPENING.

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- SHEET 1: GENERAL NOTES, INDEX AND INSTRUCTIONS.
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- SHEET 3: BILL OF MATERIALS, TYPICAL GLAZING DETAIL & MAXIMUM A.S.D. DESIGN PRESSURE RATING SCHEDULE FOR A GIVEN GLASS PANEL DIMENSIONS.
- SHEET 4: ELEVATION FOR SERIES FG-2000 STOREFRONT.
- SHEET 5: MAXIMUM A.S.D. DESIGN PRESSURE RATING FOR MULLIONS.
- SHEET 6: SILL OR HEAD CONNECTIONS DETAILS (PLAN VIEWS).
- SHEET 6A: MAXIMUM A.S.D. DESIGN PRESSURE RATING SCHEDULE FOR MULLIONS W/ HEAD/SILL CONNECTIONS.
- SHEET 7: MAXIMUM A.S.D. DESIGN PRESSURE RATING FOR HORIZONTAL.
- SHEET 8: HEAD, HORIZONTAL & SILL CONNECTION DETAILS (SIDE VIEW).
- SHEET 9: SECTIONS AT JAMBS AND AT MULLIONS.
- SHEET 10: MAXIMUM A.S.D. DESIGN PRESSURE RATING & MAXIMUM FASTENERS SPACING SCHEDULE FOR JAMB CONNECTION AND CORNER DETAIL.

INSTRUCTIONS:

- STEP 1:** DETERMINE A.S.D. DESIGN WIND LOAD REQUIREMENTS BASED ON WIND VELOCITY, BUILDING HEIGHT, WIND ZONE, USING APPLICABLE ASCE 7 STANDARDS.
- STEP 2:** GO TO SCHEDULE ON SHEET 3 TO DETERMINE MAXIMUM A.S.D. DESIGN PRESSURE RATING (psf) CAPACITY OF DESIRED GLASS SIZE BASED ON GLASS PANEL DIMENSIONS.
- STEP 3:** DETERMINE MAXIMUM MULLION SPAN "L"(FT) FOR A GIVEN MULLION EFFECTIVE SPACING "b", ON SCHEDULE ON SHEET 5, AND SELECT ANCHOR OPTION W/ A.S.D. DESIGN PRESSURE RATING EQUAL OR GREATER THAN A.S.D. DESIGN WIND LOAD SPECIFIED IN **STEP 1** USING SCHEDULE ON SHEET 6A.
- STEP 4:** DETERMINE MAXIMUM ANCHOR SPACING AT JAMB FOR A GIVEN MAXIMUM A.S.D. DESIGN PRESSURE RATING AND MAXIMUM MULLION SPACING, ON SHEET 10
- STEP 5:** USE SCHEDULE ON SHEET 7, TO VERIFY MAXIMUM A.S.D. DESIGN PRESSURE RATING OF HORIZONTALS (IF USED) FOR A GIVEN HORIZONTAL EFFECTIVE "D.L.O.".
- STEP 6:** THE LOWEST VALUE OF A.S.D. DESIGN PRESSURE RATING RESULTING FROM STEPS 2, 3 AND 5 SHALL APPLY TO THE ENTIRE SYSTEM.

THIS DRAWING SHALL ONLY BE USED TO
OBTAIN PERMITS IN THE STATE OF FLORIDA

FLORIDA BUILDING CODE (High & Non High Velocity Hurricane Zone)

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SERIES FG-2000 STOREFRONT
HIGH DESIGN PRESSURE
W/ NON IMPACT MONOLITHIC TEMPERED GLASS

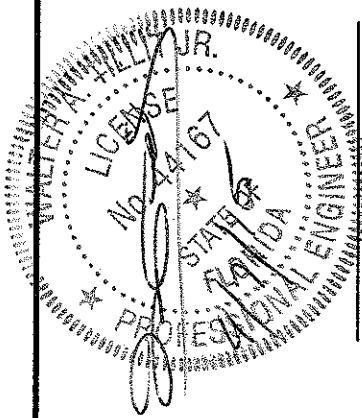
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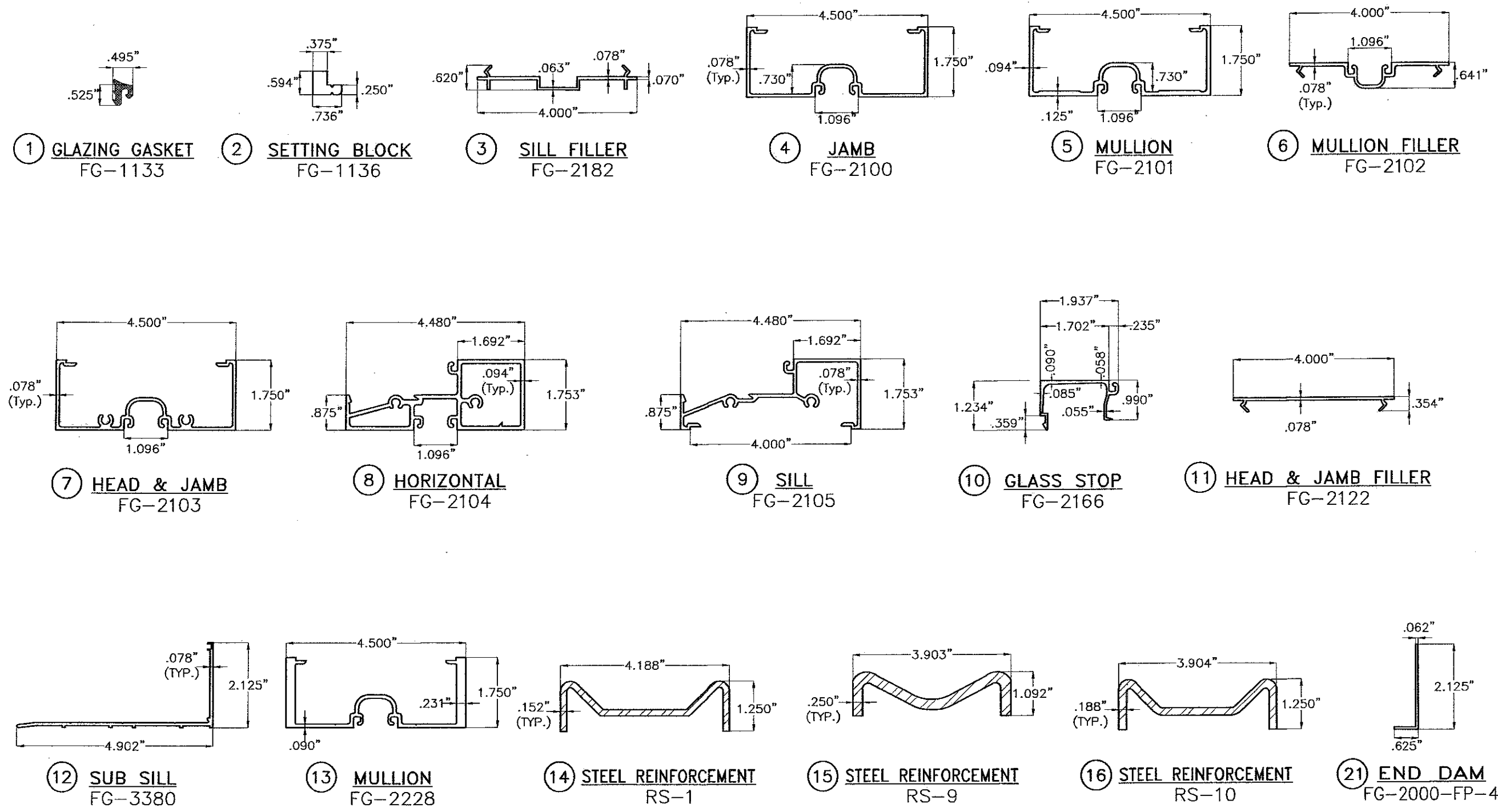
SHEET 1 OF 10



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COMPONENTS FOR SERIES FG-2000 STOREFRONT

SCALE : 3/8" = 1"



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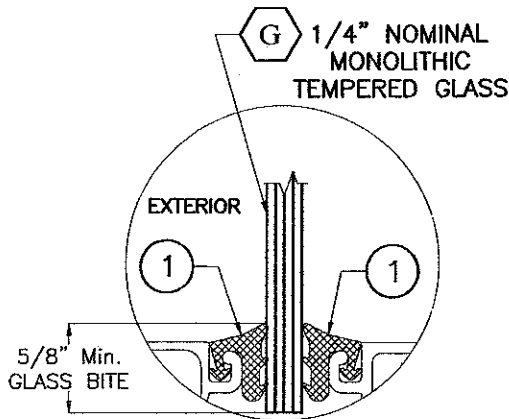
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BILL OF MATERIALS

ITEM No.	PART NUMBER	DESCRIPTION	DIMENSIONS	MATERIAL	MANUFACTURER	NOTES
1.	FG-1133	GLAZING GASKET	.525" x .495"	EPDM	EPG	
2.	FG-1136	SETTING BLOCK	.375" x .594"	EPDM	EPG	
3.	FG-2182	SILL FILLER	4.00" x 4.00" x .078"	6063-T6 ALUMINUM	VARIES	LOCATED CENTER WITH ANCHOR'S LOCATION
4.	FG-2100	JAMB	4.50" x 1.750" x .078"	6063-T6 ALUMINUM	OBE	
5.	FG-2101	MULLION	4.50" x 1.750" x .094"	6063-T6 ALUMINUM	OBE	
6.	FG-2102	MULLION FILLER	4.00" x .641" x .078"	6063-T6 ALUMINUM	OBE	
7.	FG-2103	HEAD & JAMB	4.50" x 1.75" x .078"	6063-T6 ALUMINUM	OBE	
8.	FG-2104	HORIZONTAL	4.515" x 1.753" x .094"	6063-T6 ALUMINUM	OBE	
9.	FG-2105	SILL	4.480" x 1.753" x .078"	6063-T6 ALUMINUM	OBE	
10.	FG-2166	GLASS STOP	1.937" x 1.234" x varies	6063-T5 ALUMINUM	OBE	
11.	FG-2122	HEAD & JAMB FILLER	4.00" x .354" x .078" x 4" LONG	6063-T5 ALUMINUM	OBE	LOCATED CENTER WITH ANCHOR'S LOCATION
12.	FG-3380	SUB SILL	4.902" x 2.125" x .078"	6063-T5 ALUMINUM	OBE	
13.	FG-2228	MULLION	4.50" x 1.75" x .231"	6063-T6 ALUMINUM	OBE	
14.	RS-1	STEEL REINFORCEMENT	4.188" x 1.249" x .152"	A-36 STEEL	VARIES	ZINC PLATED
15.	RS-9	STEEL REINFORCEMENT	3.903" x 1.092" x .250"	A-36 STEEL	VARIES	ZINC PLATED
16.	RS-10	STEEL REINFORCEMENT	3.904" x 1.250" x .188"	A-36 STEEL	VARIES	ZINC PLATED
17.	795	PERIMETER SEALANT & VINYL JOINTS		SILICONE	DOW CORNING	LOCATED AT EACH INTERIOR FRAME CORNER
18.	FS-8	SPLINE ASSEMBLY SCREW	#14 x 1" HHSTS	STEEL	VARIES	
19.	FG-1000-FP-1	WATER DIVERter SET IN SEALANT	1.187" x .750" x 1.343"	PVC	OBE	LOCATED AT EACH END OF ⑧ & SEALED W/⑰
20.	SM-5601	ISOCRYL TAPE	.125" x .500" VARIES	POLYISOBUTYLENE	SCHNEE-MOOREHEAD	LOCATED AT EACH END OF HORIZONTAL BETWEEN JOINTS
21.	FG-2000-FP-4	END DAM	.625" x 2.125" x .062"	6063-T6 ALUMINUM	OBE	FABRICATED LENGTH = 4.25"
22.	FS-22	SCREW FOR STEEL REINFORCEMENT	#12 x 1/2" PHILLIPS FLAT HEAD	STEEL, ZINC COATED	VARIES	START @ 6" o.c. FROM ENDS, BALANCE @ 12" o.c.
23.		CLOSED CELL BACKER ROD	.500"	POLYETHYLENE	VARIES	

MAXIMUM A.S.D. DESIGN PRESSURE RATING (psf) SCHEDULE FOR A GIVEN GLASS PANEL DIMENSIONS "a" (in) x "b" (in) (SEE LEGEND)

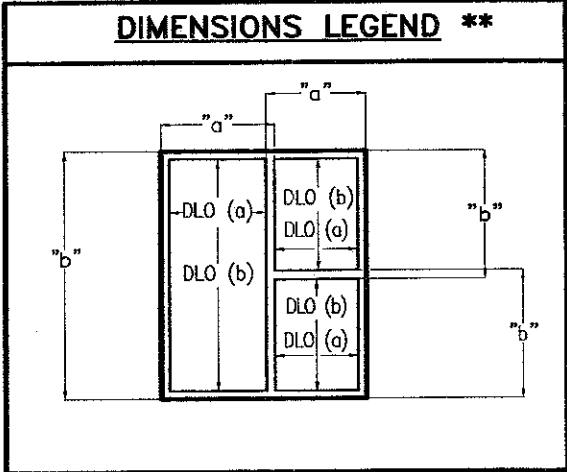
TYPICAL GLAZING DETAIL



GLASS TYPE G		
MAXIMUM DIMENSION "a" *	MAXIMUM DIMENSION "b" *	MAXIMUM A.S.D. DESIGN PRESSURE RATING (psf)
18"	from 18" to 312"	±60.0
24"	from 24" to 234"	±60.0
30"	from 30" to 186"	±60.0
36"	from 36" to 156"	±60.0
42"	from 42" to 132"	±60.0
48"	from 48" to 114"	±60.0
54"	from 54" to 90"	±60.0
	from 54" to 96"	±59.9
60"	from 54" to 102"	±58.6
	from 60" to 84"	±60.0
66"	from 60" to 90"	±58.2
	from 66" to 78"	±60.0
72"	from 66" to 84"	±58.1
	from 72" to 78"	±60.0

* DETERMINATION OF MAXIMUM DAY LIGHT OPENING (D.L.O.) AT EACH END OF GLASS GIVEN "a" & "b"

SIDE	MAXIMUM DAY LIGHT OPENING	
	(D.L.O.) Formula at Vertical & Horizontal Mullions	(D.L.O.) Formula at Jamb, Head & Sill Frames
MAX. D.L.O. (a) (SHORT SIDE)	"a" - 3.50"	"a" - 3.50"
MAX. D.L.O. (b) (LONG SIDE)	"b" - 3.50"	"b" - 3.50"



** SIDE "a" IS ALWAYS EQUAL OR SHORTER THAN "b".
"a", "b" MAY BE ORIENTED IN ANY DIRECTION.

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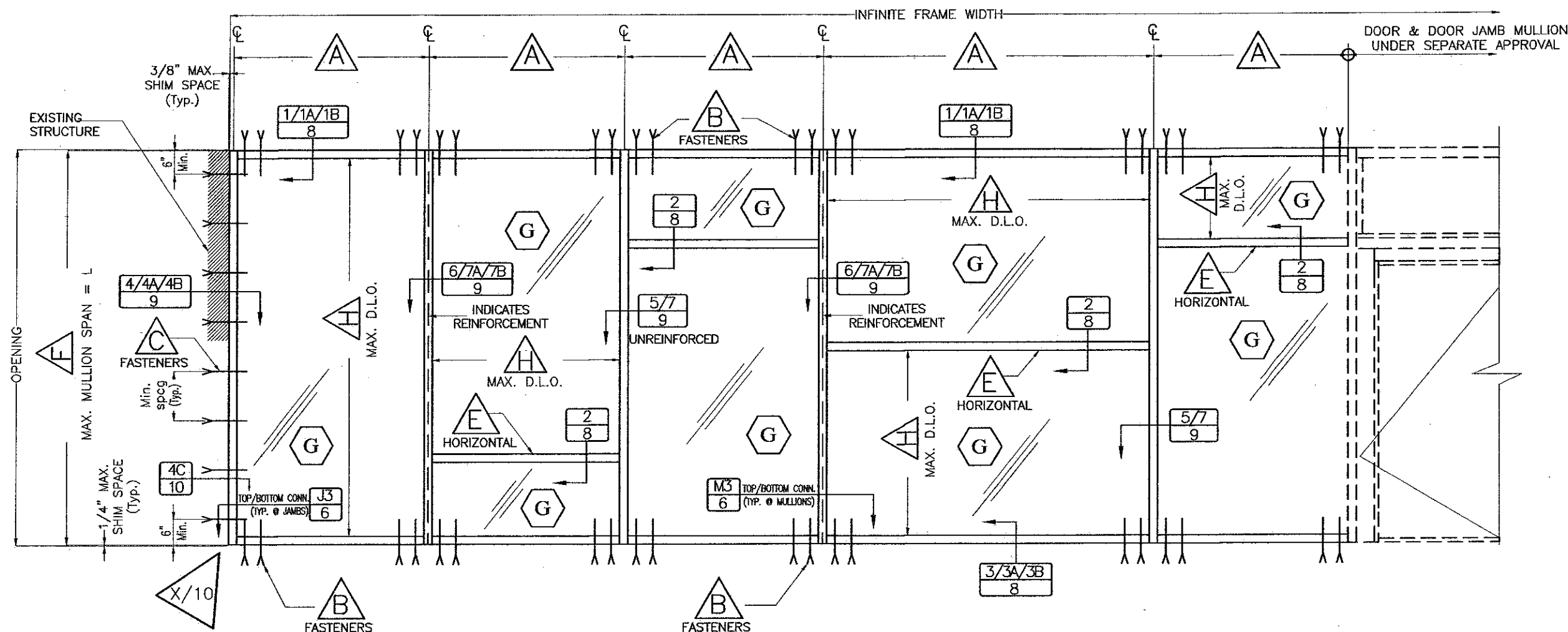
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ELEVATION FOR SERIES FG-2000 STOREFRONT HIGH DESIGN PRESSURE



FOOT NOTES:

- A** FOR MAXIMUM MULLION SPACING ON CENTERS SEE SHEET 5.
- B** FOR MULLIONS HEAD AND SILL FASTENERS QUANTITY, TYPES AND SPECS SEE SHEETS 6 & 6A.
- C** FOR JAMB FASTENERS SPACING, TYPES AND SPECS SEE SHEET 10.
- E** USE OF HORIZONTAL (SEE SECTION 2/8) LIMITED BY SCHEDULE ON SHEET 7.
- F** FOR MAXIMUM MULLION SPAN SEE SHEET 5.
- G** FOR GLAZING DETAILS AND GLASS SCHEDULE SEE SHEET 3.
- H** FOR MAXIMUM D.L.O. SEE SCHEDULE ON SHEET 3.

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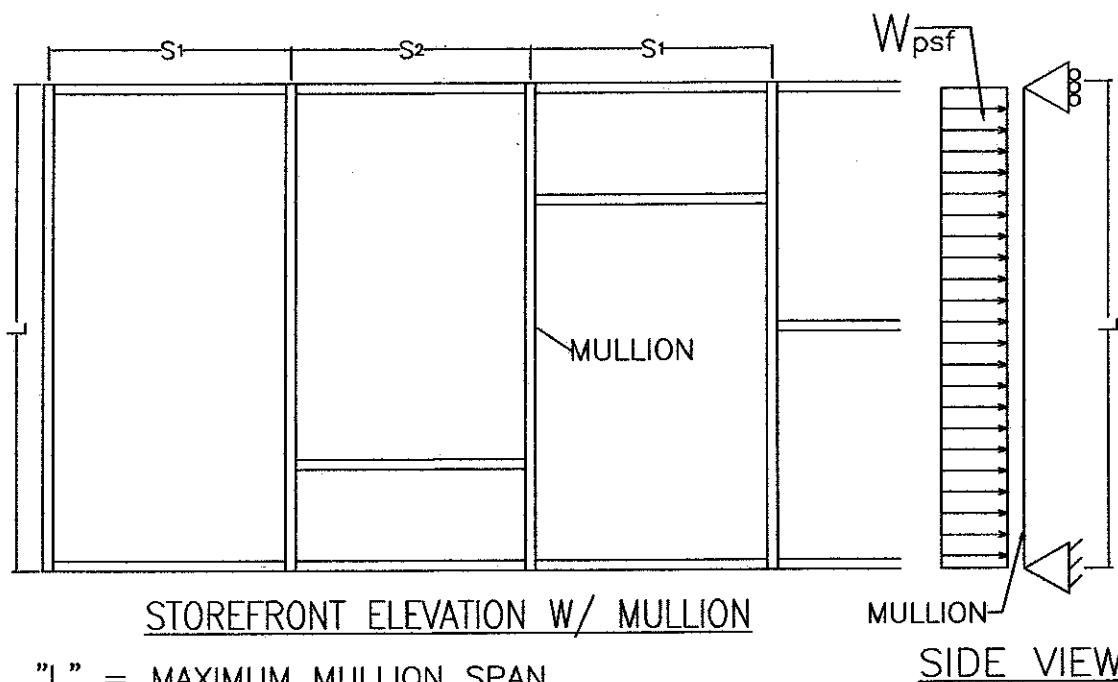
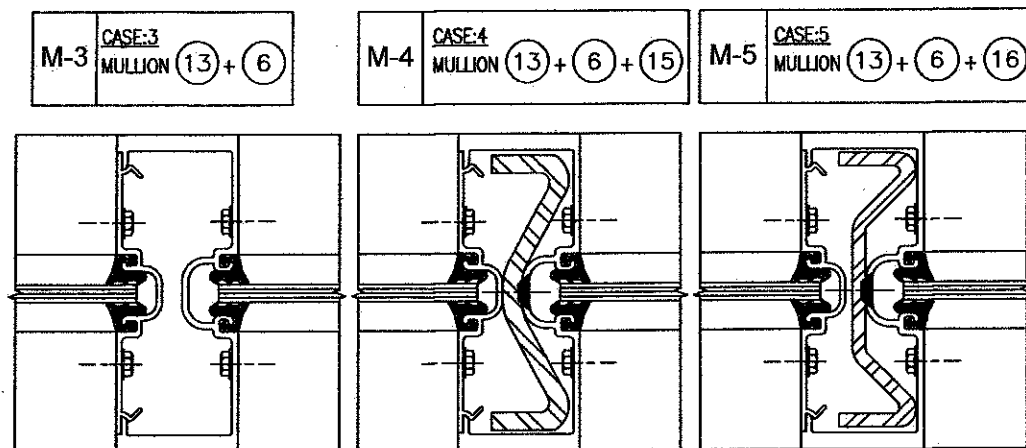
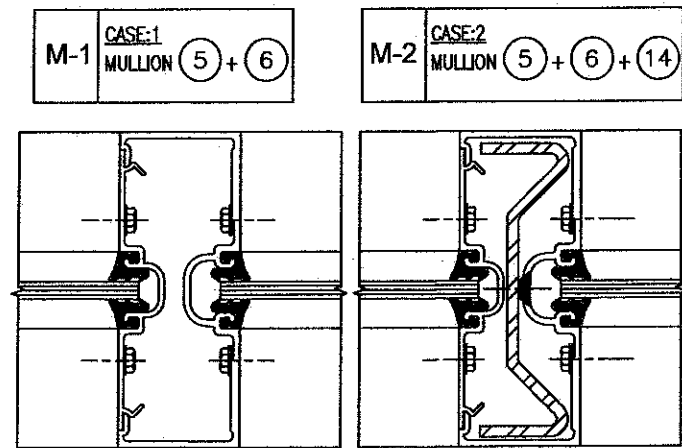
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SHEET 4 OF 10

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STATE OF FLORIDA



*MAXIMUM A.S.D. DESIGN PRESSURE RATING FOR MULLION WILL AUTOMATICALLY QUALIFY A.S.D. DESIGN PRESSURE RATINGS FOR JAMBS WITH ANCHORAGE FOR ANY GIVEN MULLION SPACING.

MAXIMUM A.S.D. DESIGN PRESSURE RATING FOR MULLIONS *
MAXIMUM MULLION SPAN "L"(FT) SCHEDULE FOR A GIVEN A.S.D. DESIGN PRESSURE RATING
(psf) AND A GIVEN MULLION EFFECTIVE SPACING "b" (in)

MAXIMUM DESIGN PRESSURE RATING "W" (psf)	EFFECTIVE SPACING "b"(FT-in)	MAXIMUM MULLION SPAN "L" (FT)				
		CASE 1 M1	CASE 2 M2	CASE 3 M3	CASE 4 M4	CASE 5 M5
+-40.0	2'-0"	10'-7"	12'-0"	12'-0"	12'-0"	12'-0"
	3'-0"	9'-3"	10'-10"	10'-10"	12'-0"	12'-0"
	3'-6"	8'-6"	10'-0"	10'-0"	12'-0"	12'-0"
	4'-0"	8'-0"	9'-4"	9'-4"	12'-0"	12'-0"
	4'-6"	7'-1"	8'-10"	8'-10"	11'-6"	11'-6"
	5'-0"	6'-5"	8'-5"	8'-5"	10'-10"	10'-10"
	5'-6"	5'-10"	8'-0"	8'-0"	10'-4"	10'-5"
	6'-0"	5'-4"	7'-4"	7'-4"	10'-0"	10'-0"
+-45.0	6'-8"	4'-10"	6'-7"	6'-7"	9'-0"	9'-0"
	2'-0"	10'-2"	12'-0"	11'-9"	12'-0"	12'-0"
	3'-0"	8'-8"	10'-3"	10'-3"	12'-0"	12'-0"
	3'-6"	8'-0"	9'-6"	9'-6"	12'-0"	12'-0"
	4'-0"	7'-1"	8'-10"	8'-10"	11'-6"	11'-6"
	4'-6"	6'-4"	8'-4"	8'-4"	10'-10"	10'-10"
	5'-0"	5'-8"	7'-10"	7'-10"	10'-3"	10'-3"
	5'-6"	5'-2"	7'-1"	7'-1"	9'-8"	9'-8"
+-50.0	2'-0"	9'-10"	11'-10"	11'-4"	12'-0"	12'-0"
	3'-0"	8'-3"	9'-8"	9'-8"	12'-0"	12'-0"
	3'-6"	7'-4"	9'-0"	9'-0"	11'-8"	11'-8"
	4'-0"	6'-5"	8'-5"	8'-5"	10'-10"	10'-11"
	4'-6"	5'-8"	7'-10"	7'-8"	10'-4"	10'-3"
	5'-0"	5'-1"	7'-0"	7'-0"	9'-3"	9'-7"
+-55.0	2'-0"	9'-6"	11'-4"	11'-0"	12'-0"	12'-0"
	3'-0"	7'-9"	9'-3"	9'-3"	12'-0"	12'-0"
	3'-6"	6'-8"	8'-7"	8'-7"	11'-2"	11'-2"
	4'-0"	5'-10"	8'-0"	8'-0"	10'-5"	10'-5"
	4'-6"	5'-2"	7'-1"	7'-1"	9'-8"	9'-8"
+-60.0	2'-0"	9'-3"	10'-10"	10'-10"	12'-0"	12'-0"
	3'-0"	7'-1"	8'-10"	8'-10"	11'-6"	11'-6"
	3'-6"	6'-1"	8'-2"	8'-2"	10'-8"	10'-8"
	4'-0"	5'-4"	7'-4"	7'-4"	10'-0"	10'-0"

CASE DEFINITIONS

- CASE 1 : UNREINFORCED STANDARD MULLION M-1 (SEE DET. 5/9)
- CASE 2 : REINFORCED STANDARD MULLION M-2 (SEE DET. 6/9)
- CASE 3 : UNREINFORCED STANDARD MULLION M-3 (SEE DET. 7/9)
- CASE 4 : REINFORCED STANDARD MULLION M-4 (SEE DET. 7A/9)
- CASE 5 : REINFORCED STANDARD MULLION M-5 (SEE DET. 7B/9)

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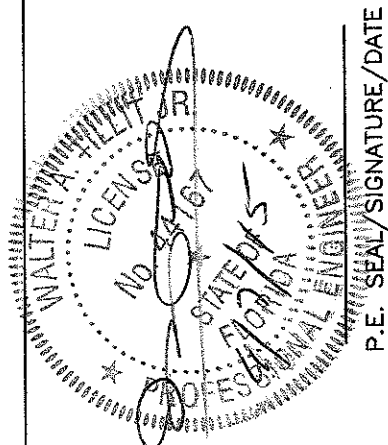
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SHEET 5 OF 10

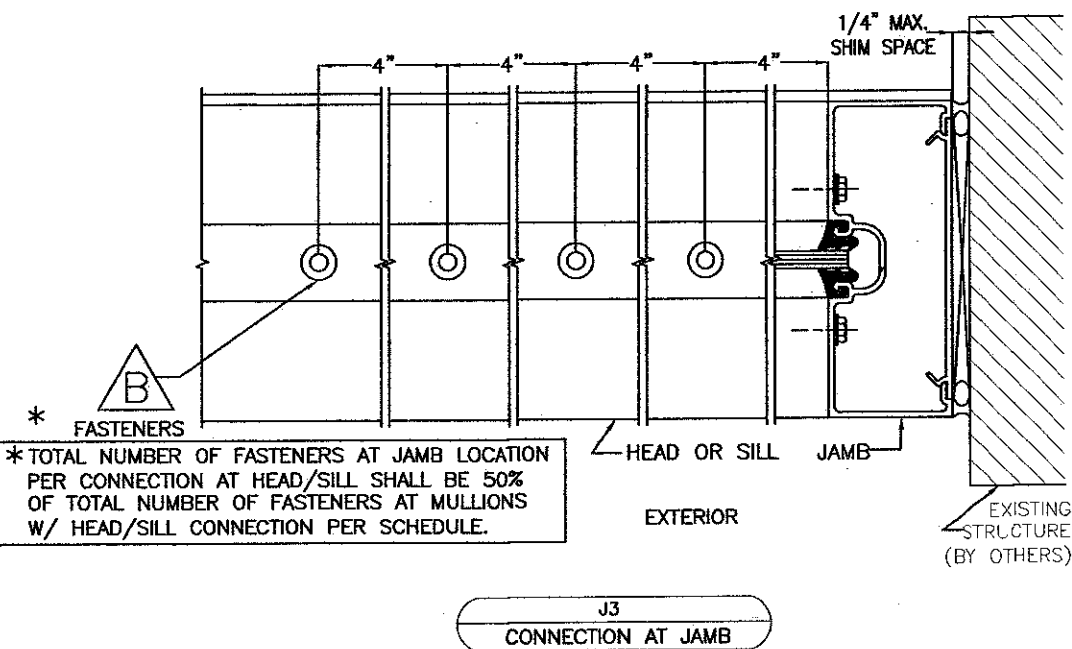
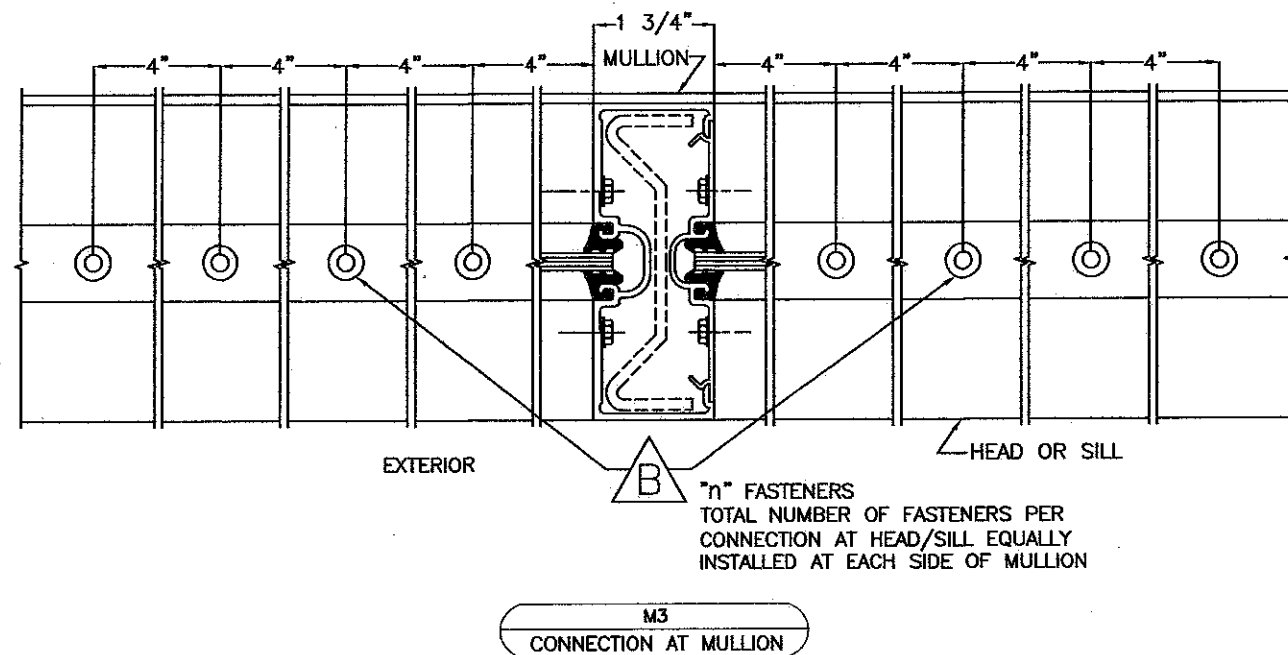


P.E. SEAL/SIGNATURE/DATE

MAXIMUM A.S.D. DESIGN PRESSURE RATING SCHEDULE FOR
MULLIONS W/ HEAD/SILL CONNECTIONS X

MAXIMUM MULLION SPAN	EFFECTIVE SPACING	MAXIMUM DESIGN PRESSURE RATING W (psf)																									
		POURED CONCRETE SUBSTRATE												WOOD SUBSTRATE, 1 1/2" Min. THK.												STEEL SUBSTRATE, 1/8" Min. THK.	
		FASTENER TYPE A (1/4"Ø)						FASTENER TYPE B (1/4"Ø)						FASTENER TYPE B' (5/16"Ø)						FASTENER TYPE C & C' (1/4"Ø)							
		Sa= 205						Sa= 118						Sa= 383						Sa= 152							
"L" (Ft-in)	"S" (Ft-in)	n=2	n=4	n=6	n=8	n=2	n=4	n=6	n=8	n=2	n=4	n=6	n=8	n=2	n=4	n=6	n=8	n=2	n=4	n=6	n=8	n=2	n=4	n=6	n=8		
8'-0" OR LESS	2'-0"	51.25	60.00	60.00	60.00	29.50	59.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00		
	3'-0"	34.17	60.00	60.00	60.00	19.67	39.33	59.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00		
	3'-6"	29.29	58.57	60.00	60.00	16.86	33.71	50.57	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00		
	4'-0"	25.63	51.25	60.00	60.00	14.75	29.50	44.25	59.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00		
	4'-6"	22.78	45.56	60.00	60.00	13.11	26.22	39.33	52.44	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00		
	5'-0"	20.50	41.00	60.00	60.00	11.80	23.60	35.40	47.20	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00		
8'-6"	5'-6"	18.64	37.27	55.91	60.00	10.73	21.45	32.18	42.91	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00		
	6'-0"	17.08	34.17	51.25	60.00	9.83	19.67	29.50	39.33	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00		
	6'-6"	15.38	30.75	46.13	60.00	8.85	17.70	26.55	35.40	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00		
	7'-0"	14.47	28.94	43.41	60.00	8.33	16.86	24.99	33.32	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00		
	7'-6"	13.67	27.33	41.00	60.00	7.87	15.73	23.60	31.47	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00		
	8'-0"	12.95	25.89	38.84	60.00	7.45	14.91	22.36	29.81	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00		
9'-0"	2'-0"	43.16	60.00	60.00	60.00	24.84	49.68	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00		
	3'-0"	28.77	57.54	60.00	60.00	16.56	33.12	49.68	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00		
	3'-6"	24.86	49.32	60.00	60.00	14.20	28.39	42.59	56.78	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00		
	4'-0"	21.58	43.16	60.00	60.00	12.42	24.84	37.26	49.68	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00		
	4'-6"	19.18	38.36	57.54	60.00	11.04	22.08	33.12	44.16	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00		
	5'-0"	17.26	34.53	51.79	60.00	9.94	19.87	29.81	39.75	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00		
9'-6"	5'-6"	15.59	31.39	47.08	60.00	9.03	18.07	27.10	36.13	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00		
	6'-0"	14.39	28.77	43.16	60.00	8.28	16.56	24.84	33.12	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00		
	6'-6"	12.95	25.89	38.84	60.00	7.45	14.91	22.36	29.81	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00		
	7'-0"	12.30	24.60	36.90	60.00	7.08	14.16	21.24	28.32	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00		
	7'-6"	11.71	23.43	35.14	60.00	6.74	13.49	20.23	26.97	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00		
	8'-0"	11.18	22.36	33.55	60.00	6.44	12.87	19.31	25.75	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00		
10'-0"	2'-0"	37.27	60.00	60.00	60.00	21.45	42.91	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00		
	3'-0"	24.85	49.70	60.00	60.00	14.30	28.61	42.91	57.21	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00		
	3'-6"	21.30	42.60	60.00	60.00	12.26	24.52	36.78	49.04	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00		
	4'-0"	18.64	37.27	55.91	60.00	10.73	21.45	32.18	42.91	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00		
	4'-6"	16.57	33.13	49.70	60.00	9.54	19.07	28.61	38.14	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00		
	5'-0"	14.91	29.82	44.73	60.00	8.58	17.16	25.75	34.33	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00		
10'-6"	5'-6"	13.55	27.11	40.66	60.00	7.80	15.60	23.40	31.21	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00		
	6'-0"	12.42	24.85	37.27	60.00	7.15	14.30	21.45	28.61	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00		
	6'-6"	11.18	22.36	33.55	60.00	6.44	12.87	19.31	25.75	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00		
	7'-0"	10.70	21.39	32.09	60.00	6.16	12.31	18.47	24.63	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00		
	7'-6"	10.25	20.50	30.75	60.00	5.90	11.80	17.70	23.60	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00		
	8'-0"	10.25	20.50	30.75	60.00	5.90	11.80	17.70	23.60	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00		
11'-0"	2'-0"	34.17	60.00	60.00	60.00	19.67	39.33	59.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00		
	3'-0"	22.78	45.56	60.00	60.00	13.11	26.22	39.33	52.44	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00		
	3'-6"	19.52	3																								

SILL OR HEAD CONNECTIONS DETAILS
(PLAN VIEWS)



FASTENERS TYPES: (SPACED AT 4" o.c.)

- A - 1/4"Ø ELCO FASTENING SYSTEM, LLC. ULTRACON ANCHOR W/ 1 3/4" Min. EMBEDMENT INTO POURED CONCRETE (Min. $f_c = 2.730$ ksi).
- B - 1/4"Ø ELCO FASTENING SYSTEM, LLC. ULTRACON ANCHOR W/ 1 1/2" Min. PENETRATION INTO 2 x WOOD BUCK ($G=0.55$) & 2" MIN. EDGE DISTANCE, BEYOND ANY FINISH MATERIAL.
- B' - 5/16"Ø ELCO FASTENING SYSTEM, LLC. ULTRACON ANCHOR W/ 1 1/2" Min. PENETRATION INTO 2 x WOOD BUCK ($G=0.55$) & 1 5/8" MIN. EDGE DISTANCE, BEYOND ANY FINISH MATERIAL.
- C - 1/4"Ø-20 SLOTTED INDENTED HEX WASHER HEAD THREAD CUTTING SCREW TYPE "F", ZINC COATED, W/ MIN. $F_y = 77$ ksi, $F_u = 100$ ksi TO 1/8" MIN. THK. ASTM A-36 STEEL & 1" MIN. EDGE DISTANCE.
- C' - 1/4"Ø ELCO CONSTRUCTION PRODUCTS DRILLFLEX STRUCTURAL SCREWS TO MIN. 1/8" THK. ASM A-36 STEEL & 1" MIN. EDGE DISTANCE.

FLORIDA BUILDING CODE (High & Non High Velocity Hurricane Zone)

SERIES FG-2000 STOREFRONT
HIGH DESIGN PRESSURE
W/ NON IMPACT MONOLITHIC TEMPERED GLASS

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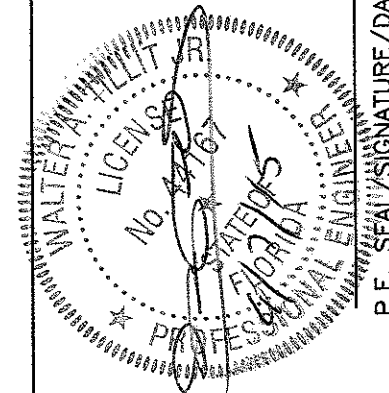
TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY
8355 N.W. 38th St., Ste. 305, VIRGINIA GARDENS, FL 33186
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EB-0006719
WALTER A. TILLIT, Jr., P.E.
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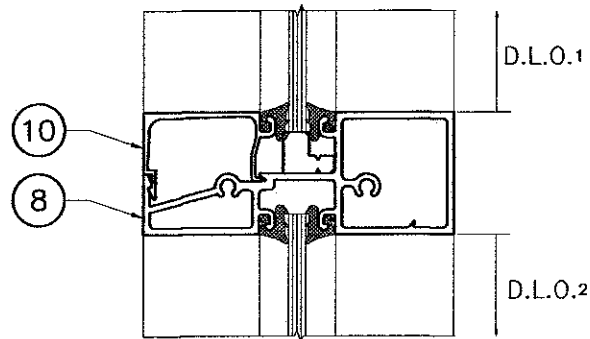
03/18/15
DATE

15-032
DRAWING No

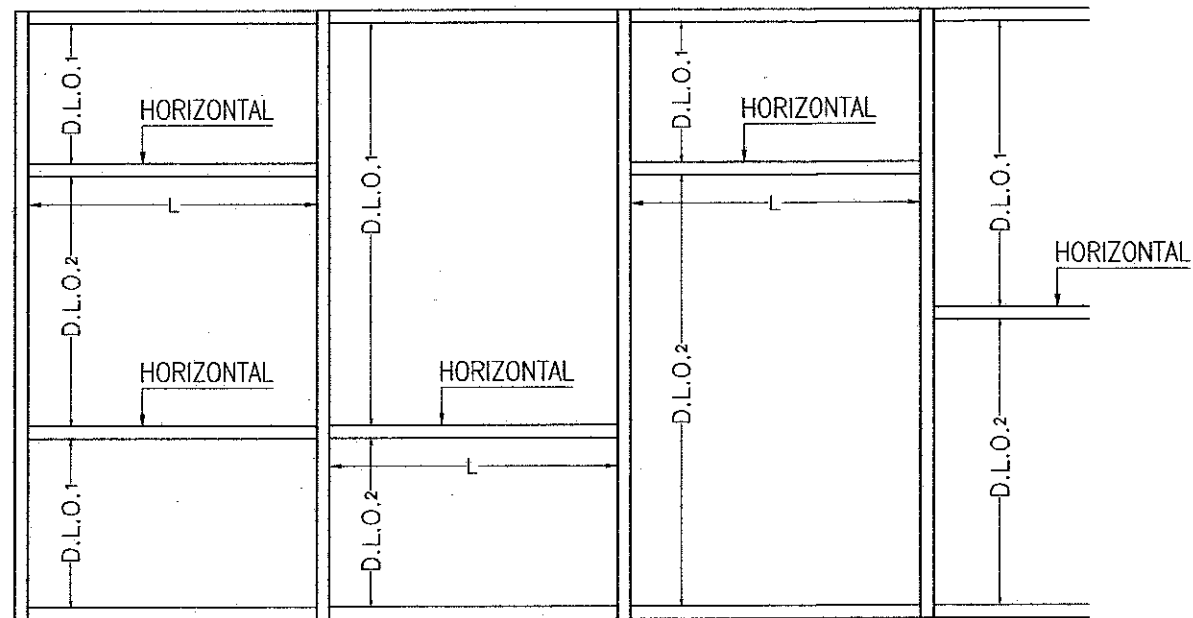
SHEET 6 OF 10



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SECTION AT HORIZONTAL



STOREFRONT ELEVATION W/ HORIZONTAL

"L" = MAXIMUM HORIZONTAL SPAN

"D.L.O." = EFFECTIVE DAY LIGHT OPENING = $\frac{D.L.O.1 + D.L.O.2}{2}$

MAXIMUM A.S.D. DESIGN PRESSURE RATING FOR HORIZONTAL
MAXIMUM HORIZONTAL SPAN "L"(FT) SCHEDULE
FOR A GIVEN A.S.D. DESIGN PRESSURE RATING (psf) AND
A GIVEN HORIZONTAL EFFECTIVE DAY LIGHT OPENING "D.L.O." (in)

MAXIMUM A.S.D. DESIGN PRESSURE RATING (psf)	EFFECTIVE DAY LIGHT OPENING "DLO" (Ftin)	MAXIMUM HORIZONTAL SPAN "L" (Ft)
± 40.0 OR LESS	2' - 0"	6' - 6"
	2' - 6"	6' - 6"
	3' - 0"	6' - 6"
	3' - 6"	6' - 6"
	4' - 0"	6' - 6"
	4' - 6"	6' - 6"
± 45.0	5' - 0"	6' - 6"
	2' - 0"	5' - 6"
	2' - 6"	5' - 6"
	3' - 0"	5' - 6"
	3' - 6"	5' - 6"
	4' - 0"	5' - 6"
± 50.0	4' - 6"	5' - 6"
	5' - 0"	5' - 6"
	2' - 0"	5' - 0"
	2' - 6"	5' - 0"
	3' - 0"	5' - 0"
	3' - 6"	5' - 0"
± 55.0	4' - 0"	5' - 0"
	4' - 6"	5' - 0"
	5' - 0"	5' - 0"
	2' - 0"	4' - 6"
	2' - 6"	4' - 6"
	3' - 0"	4' - 6"
± 60.0	3' - 6"	4' - 6"
	4' - 0"	4' - 6"
	4' - 6"	4' - 6"
	5' - 0"	4' - 6"
	2' - 0"	4' - 0"
	2' - 6"	4' - 0"
	3' - 0"	4' - 0"
	3' - 6"	4' - 0"
	4' - 0"	4' - 0"
	4' - 6"	4' - 0"
	5' - 0"	4' - 0"
	4' - 0"	4' - 0"

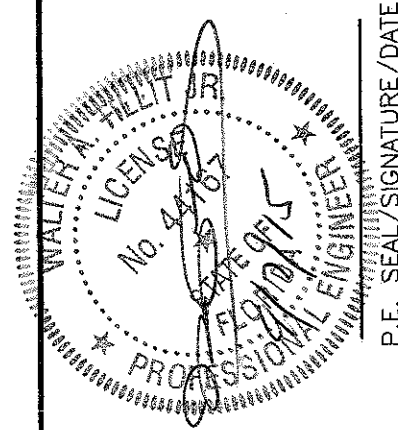
FLORIDA BUILDING CODE (High & Non High Velocity Hurricane Zone)

SERIES FG-2000 STOREFRONT
HIGH DESIGN PRESSURE
W/ NON IMPACT MONOLITHIC TEMPERED GLASS

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DATE 03/18/15
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SHEET 7 OF 10

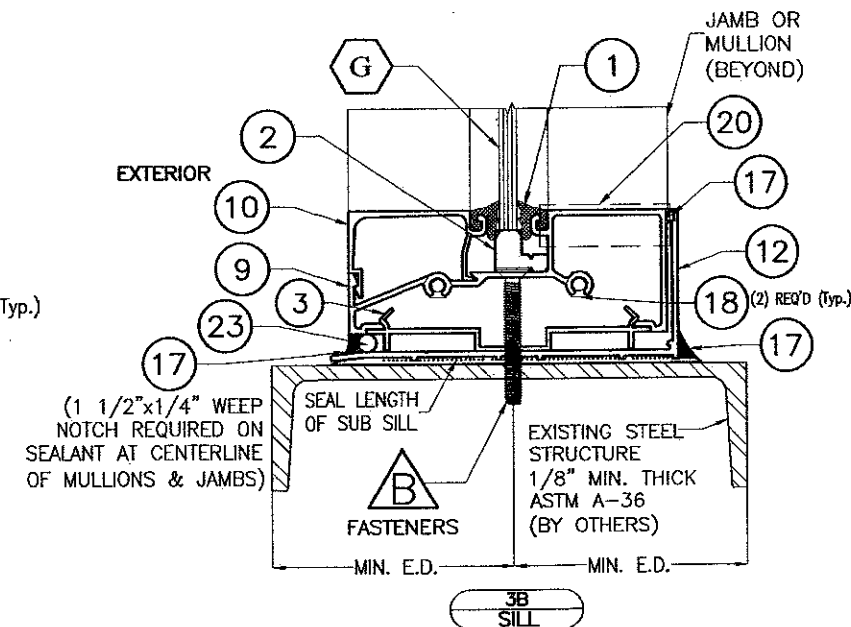
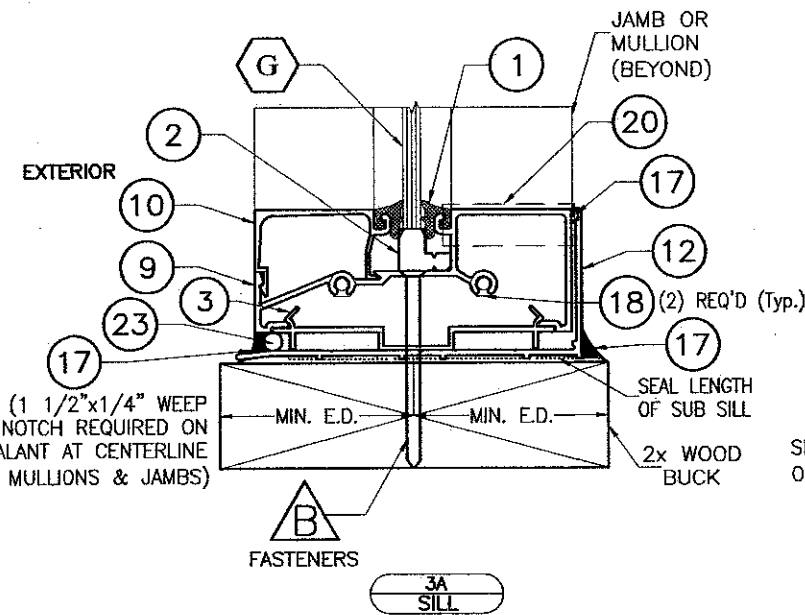
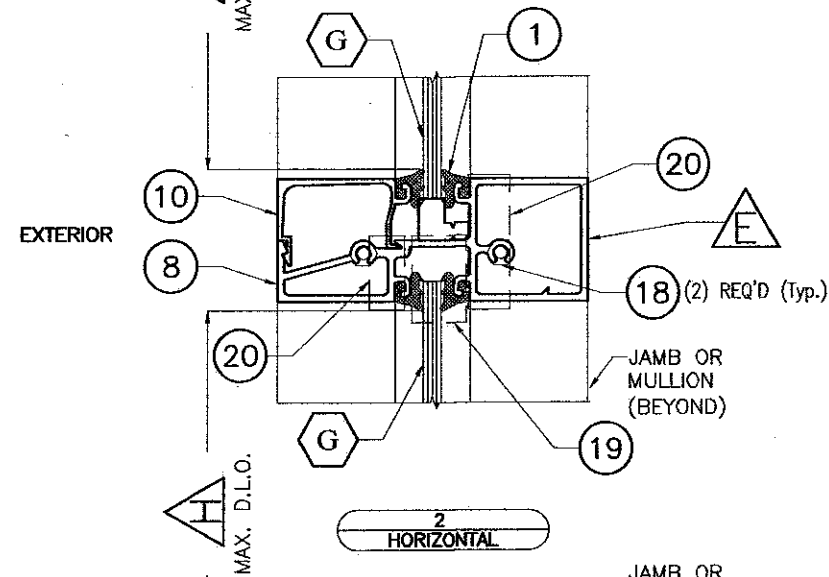
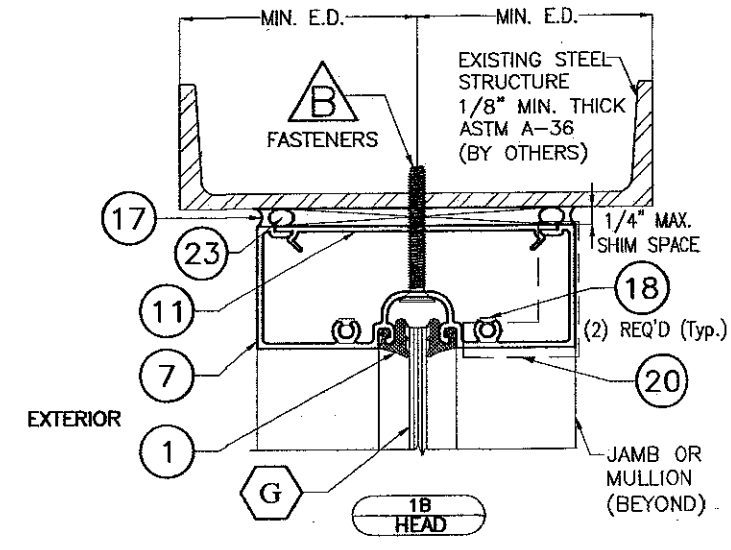
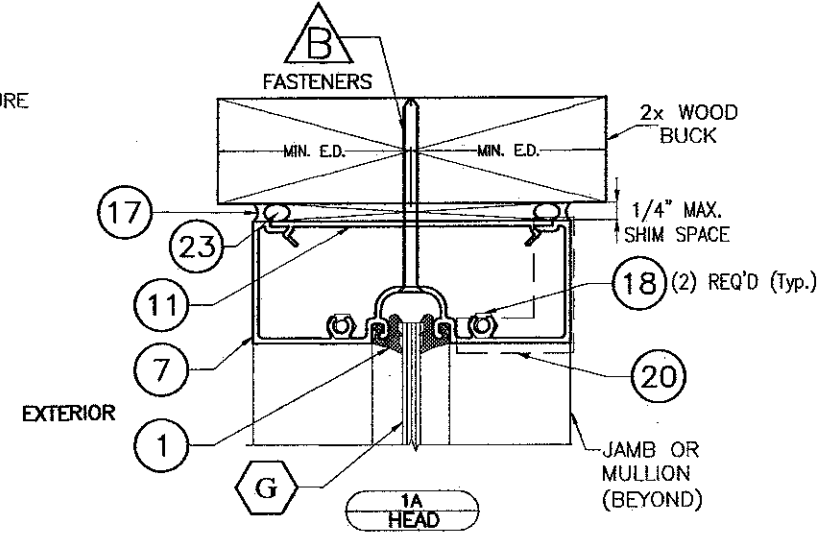
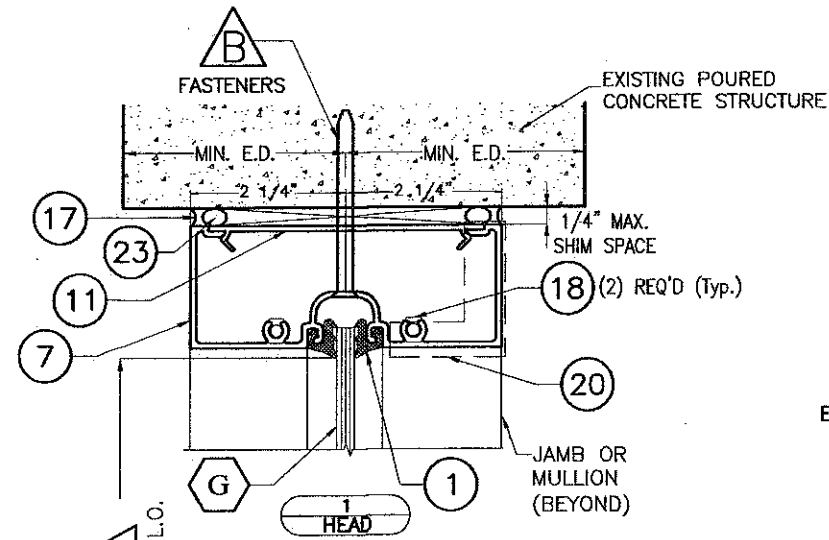
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TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th St., Ste. 150 - Fort Lauderdale, FL 33166
Phone: (305) 871-1531
e-mail: tiltco@aol.com
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167



P.E. SEAL/SIGNATURE/DATE

HEAD, HORIZONTAL & SILL CONNECTION DETAILS

(SIDE VIEW) SCALE: 3/8" = 1"



NOTES:

- B** FOR HEAD AND SILL FASTENERS QUANTITY, TYPES AND SPECS SEE SHEET 6 & 6A.
- E** USE OF HORIZONTAL (SEE SECTION 2) LIMITED BY SCHEDULE ON SHEET 7.
- G** FOR GLAZING DETAILS AND GLASS SCHEDULE SEE SHEET 3.
- H** FOR MAXIMUM D.L.O. SEE SCHEDULE ON SHEET 3.

FLORIDA BUILDING CODE (High & Non High Velocity Hurricane Zone)

SERIES FG-2000 STOREFRONT
HIGH DESIGN PRESSURE
W/ NON IMPACT MONOLITHIC TEMPERED GLASS

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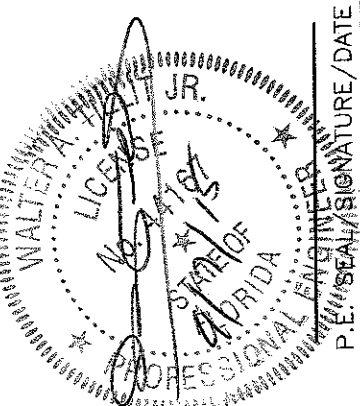
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REV. NO. 1, DATE 03/18/15, DESCRIPTION, REV. NO. 3, DATE 03/18/15, 1

SHEET 8 OF 10

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6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33168
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EB-0006719
WALTER A. TILLIT JR., P.E.
FLORIDA LIC. # 44167

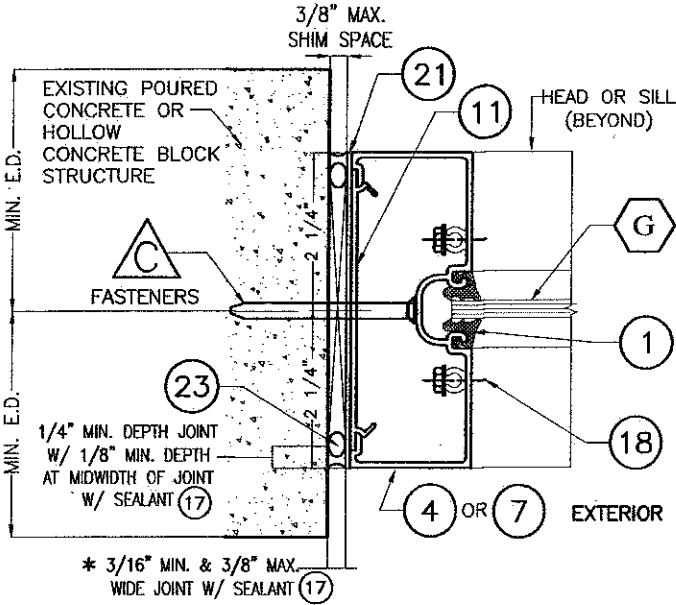


P.E. SEAL SIGNATURE/DATE

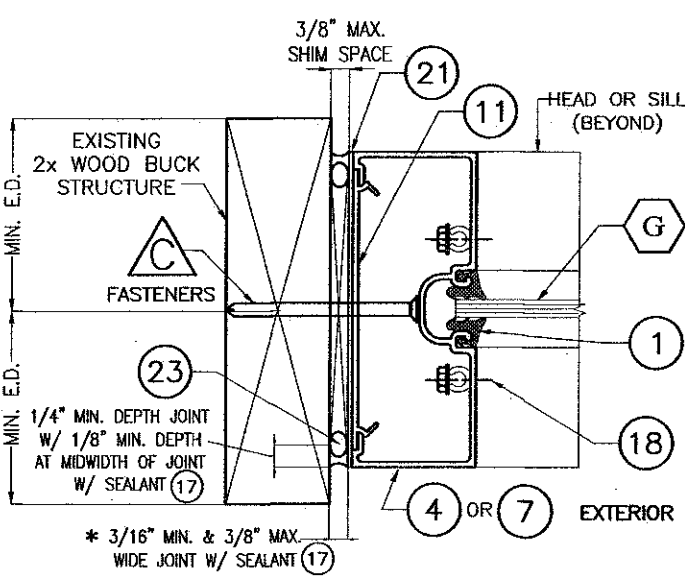
SECTIONS AT JAMBS

SCALE: 3/8" = 1"

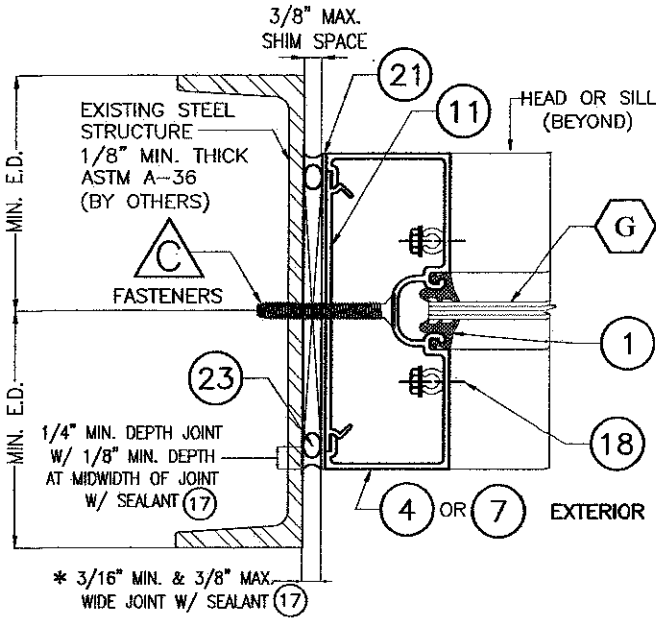
TO POURED CONCRETE OR HOLLOW CONCRETE BLOCK STRUCTURE



TO WOOD STRUCTURE



TO STEEL STRUCTURE

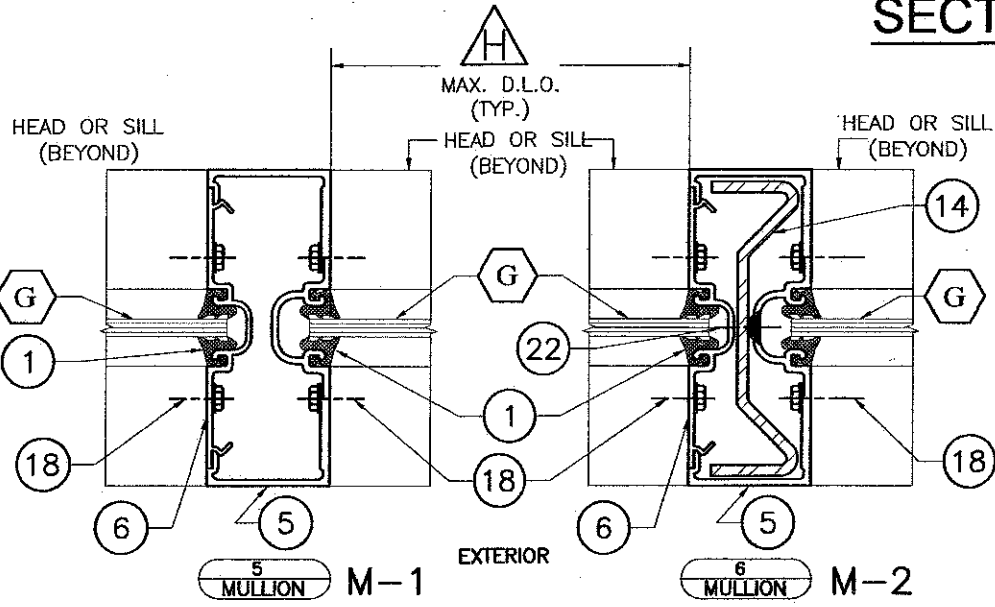


NOTES:

- FOR JAMB FASTENERS SPACING, TYPES AND SPECS SEE SHEET 10.
- FOR GLAZING DETAILS AND GLASS SCHEDULE SEE SHEET 3.
- FOR MAXIMUM D.L.O. SEE SCHEDULE ON SHEET 3.

SECTIONS AT MULLIONS

SCALE: 3/8" = 1"



* NOTE: INDICATED MAXIMUM AND MINIMUM VALUES FOR SPECIFIED SEALANT VERTICAL JOINT WIDTH AT JAMBS CONNECTED TO WALL HAVE BEEN DETERMINED ONLY TAKING INTO CONSIDERATION THE ACTUAL MOVEMENT OF GLASS WALL AT JAMBS DUE TO THERMAL, WIND AND ITS OWN CONSTRUCTION TOLERANCE, AND NOT PERFORMANCE FACTORS FROM THE SURROUNDING STRUCTURE.

FLORIDA BUILDING CODE (High & Non High Velocity Hurricane Zone)

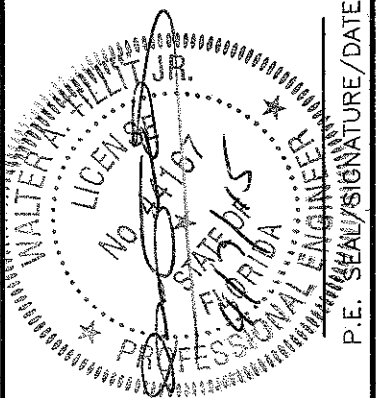
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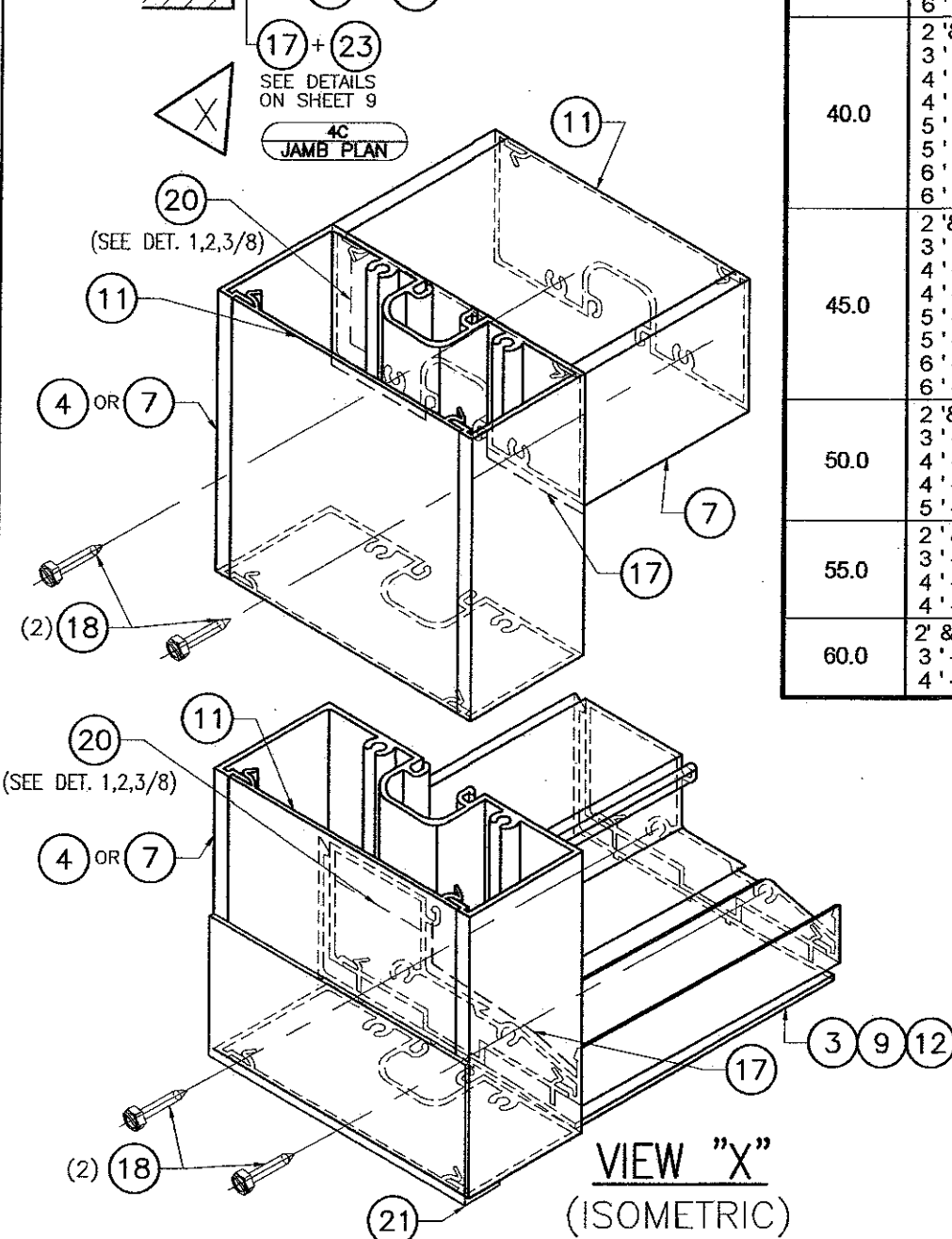
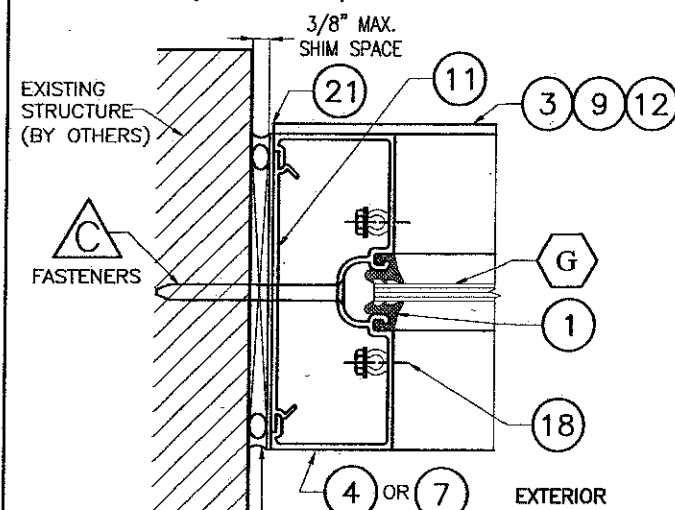
SERIES FG-2000 STOREFRONT
HIGH DESIGN PRESSURE
W/ NON IMPACT MONOLITHIC TEMPERED GLASS

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DATE: 03/18/15
15-032
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SHEET 9 OF 10



CORNER DETAIL AT JAMB

(PLAN VIEW) SCALE: 3/8" = 1"



MAXIMUM A.S.D. DESIGN PRESSURE RATING & CORRESPONDING MAXIMUM FASTENERS SPACING SCHEDULE FOR JAMB CONNECTION

MAXIMUM A.S.D. DESIGN PRESSURE RATING (psf)	MULLION SPACING "S ₁ " (Ft-in)	JAMB FASTENERS' SPACING "spcg" (in o.c.)			
		POURED CONCRETE OR HOLLOW CONCRETE BLOCK SUBSTRATES	WOOD 1 1/2" Min. THK. SUBSTRATE		STEEL 1/8" Min. THK. SUBSTRATE
		FASTENERS TYPE A (1/4"Ø)	FASTENERS TYPE B (1/4"Ø)	FASTENERS TYPE B' (5/16"Ø)	FASTENERS TYPE C & C' (1/4"Ø)
35.0	2' & 3'	12	12	12	12
	3' - 6"	12	12	12	12
	4' - 0"	12	12	12	12
	4' - 6"	12	12	12	12
	5' - 0"	12	12	12	12
	5' - 6"	12	12	12	12
40.0	6' - 0"	12	12	12	12
	6' - 8"	12	12	12	12
	2' & 3'	12	12	12	12
	3' - 6"	12	12	12	12
	4' - 0"	12	12	12	12
	4' - 6"	12	12	12	12
45.0	5' - 0"	12	12	12	12
	5' - 6"	12	12	12	12
	6' - 0"	12	11 1/2	12	12
	6' - 8"	12	10 1/2	12	12
	2' & 3'	12	12	12	12
	3' - 6"	12	12	12	12
50.0	4' - 0"	12	12	12	12
	4' - 6"	12	12	12	12
	5' - 0"	12	11	12	12
	5' - 6"	12	11	12	12
	2' & 3'	12	12	12	12
	3' - 6"	12	12	12	12
55.0	4' - 0"	12	12	12	12
	4' - 6"	12	12	12	12
	5' - 0"	12	11	12	12
	5' - 6"	12	11	12	12
	2' & 3'	12	12	12	12
	3' - 6"	12	12	12	12
60.0	4' - 0"	12	12	12	12
	4' - 6"	12	12	12	12
	5' - 0"	12	11 1/2	12	12
	5' - 6"	12	11 1/2	12	12
	2' & 3'	12	12	12	12
	3' - 6"	12	12	12	12



FASTENERS TYPES: (SEE SPACING SCHEDULE)

A - 1/4"Ø ELCO FASTENING SYSTEM, LLC. ULTRACON ANCHOR
W/ 1 3/4" Min. EMBEDMENT INTO POURED CONCRETE
(Min. f_c = 2.730 ksi) OR W/ 1 1/4" Min. EMBEDMENT INTO
HOLLOW BLOCK (Min. f_m = 1.924 ksi) & 1" MIN. EDGE
DISTANCE, BEYOND ANY FINISH MATERIAL.

B - 1/4"Ø ELCO FASTENING SYSTEM, LLC. ULTRACON ANCHOR
W/ 1 1/2" Min. PENETRATION INTO 2 x WOOD BUCK (G=0.55)
& 2" MIN. EDGE DISTANCE, BEYOND ANY FINISH MATERIAL.

B' - 5/16"Ø ELCO FASTENING SYSTEM, LLC. ULTRACON ANCHOR
W/ 1 1/2" Min. PENETRATION INTO 2 x WOOD BUCK (G=0.55)
& 1 5/8" MIN. EDGE DISTANCE, BEYOND ANY FINISH MATERIAL.

C - 1/4"Ø-20 SLOTTED INDENTED HEX WASHER HEAD THREAD
CUTTING SCREW TYPE "F", ZINC COATED, W/ MIN. F_y = 77 ksi, F_u =
100 ksi TO 1/8" MIN. THK. ASTM A-36 STEEL & 1" MIN. EDGE
DISTANCE.

C' - 1/4"Ø ELCO CONSTRUCTION PRODUCTS DRILLFLEX STRUCTURAL
SCREWS TO MIN. 1/8" THK. ASM A-36 STEEL & 1" MIN. EDGE
DISTANCE.

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