

2/26/2024 4:45 PM

ARCADIA INC.

SERIES IP-2551 ALUMINUM WINDOW WALL SYSTEM (WZ3) (IMPACT)



2301 EAST VERNON AVE.
VERNON, CA 90058
PH: (323) 771-9819

INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.
- THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
- INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/2 INCH OF THE DEPICTED LOCATION IN THE ANCHOR LAYOUT DETAIL (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
- SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM STACK TO BE 3/8 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
- FOR INSTALLATION INTO WOOD FRAMING USE 5/16" LAG SCREWS OF SUFFICIENT LENGTH TO ACHIEVE 1-1/2 INCH MINIMUM EMBEDMENT INTO WOOD SUBSTRATE.
- FOR INSTALLATION THROUGH 1X BUCK TO CONCRETE/MASONRY, OR DIRECTLY INTO CONCRETE/MASONRY, USE 3/8" DEWALT SCREW-BOLT+ OF SUFFICIENT LENGTH TO ACHIEVE 2-1/2 INCH MINIMUM EMBEDMENT.
- FOR INSTALLATION THROUGH METAL STUD USE 3/8" SELF-DRILLING SCREWS, GR. 5 OF SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM PENETRATION BEYOND METAL FRAME SUBSTRATE.
- MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
- INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
- FOR HOLLOW BLOCK AND GROUT FILLED BLOCK, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
- INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BY THE ANCHOR MANUFACTURER.
- INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
 - WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.
 - CONCRETE -MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.
 - MASONRY - UNIT STRENGTH CONFORMS TO ASTM C-90 WITH MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI.
 - STEEL - MINIMUM YIELD STRENGTH OF 33 KSI. MINIMUM 12 GA. WALL THICKNESS.
 - ALUMINUM - MINIMUM 1/8 INCH THICK, 6063-T5 ALUMINUM.

GENERAL NOTES:

- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE (FBC), **EXCLUDING** HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
 - ASTM E1886-19
 - ASTM E1996-20
 - ASTM E283-19
 - ASTM E330-14
 - ASTM E331-00(16)
 - AAMA 501-15
- ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X FRAMING AND METAL STUD FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
- 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
- THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.
- APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE IN WIND ZONE 3 OR LESS.
- APPROVED IMPACT PROTECTIVE SYSTEM **IS REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE IN WIND ZONE 4.
- FRAME MATERIAL: ALUMINUM 6063-T6
- DISSIMILAR METALS INCLUDING FASTENERS THAT MAY COME INTO CONTACT WITH ALUMINUM UNIT FRAMING SHALL BE PROTECTED IN ACCORDANCE WITH THE CURRENT FBC.
- GLASS MEETS THE REQUIREMENTS OF ASTM E 1300 GLASS CHARTS. SEE SHEET 3 FOR GLAZING DETAILS.

TABLE OF CONTENTS	
SHEET	SHEET DESCRIPTION
1	INSTALLATION & GENERAL NOTES
2	ELEVATION & ANCHOR LAYOUT
3	GLAZING DETAILS AND GLASS CAPACITY TABLES
4	MULLION CAPACITY TABLES
5	ANCHOR TYPES A, B, & C CAPACITY TABLES
6	VERTICAL SECTIONS
7	HORIZONTAL SECTIONS
8	BILL OF MATERIALS AND COMPONENTS

INSTRUCTIONS FOR USE:

- DETERMINE DESIGN WIND LOAD REQUIREMENTS BASED ON WIND VELOCITY, BUILDING HEIGHT, RISK CATEGORY, & WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
- SEE CHARTS ON SHEET 3 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE.
- CHECK MULLION CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEETS 4.
- USING CHART ON SHEET 5 SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
- THE LOWEST VALUE RESULTING FROM STEPS 2, 3 AND 4 SHALL APPLY TO ENTIRE SYSTEM.

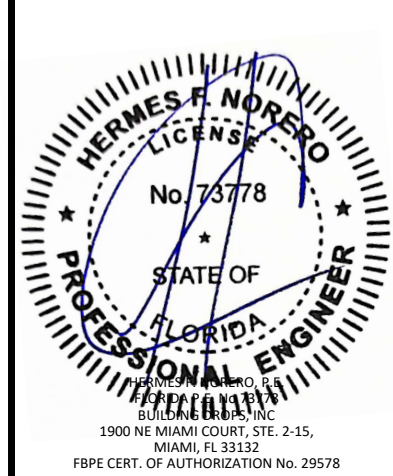
TITLE: SERIES IP-2551 ALUMINUM WINDOW WALL SYSTEM (WZ3) (IMPACT)

INSTALLATION & GENERAL NOTES

PREPARED BY: BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE

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FL #: **FL46564**

DATE: **02.19.2024**

DWG. BY: **SH** CHK. BY: **HN**

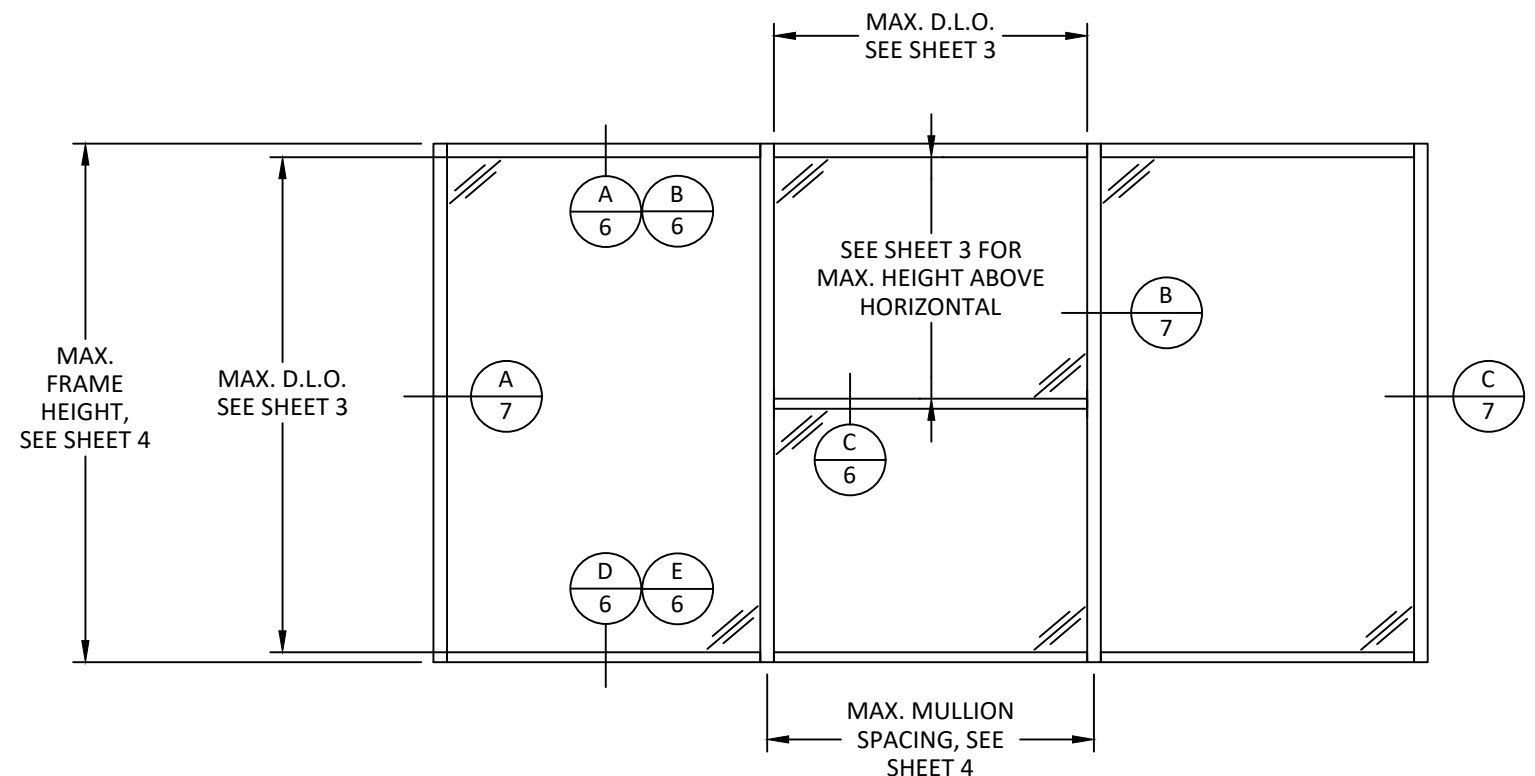
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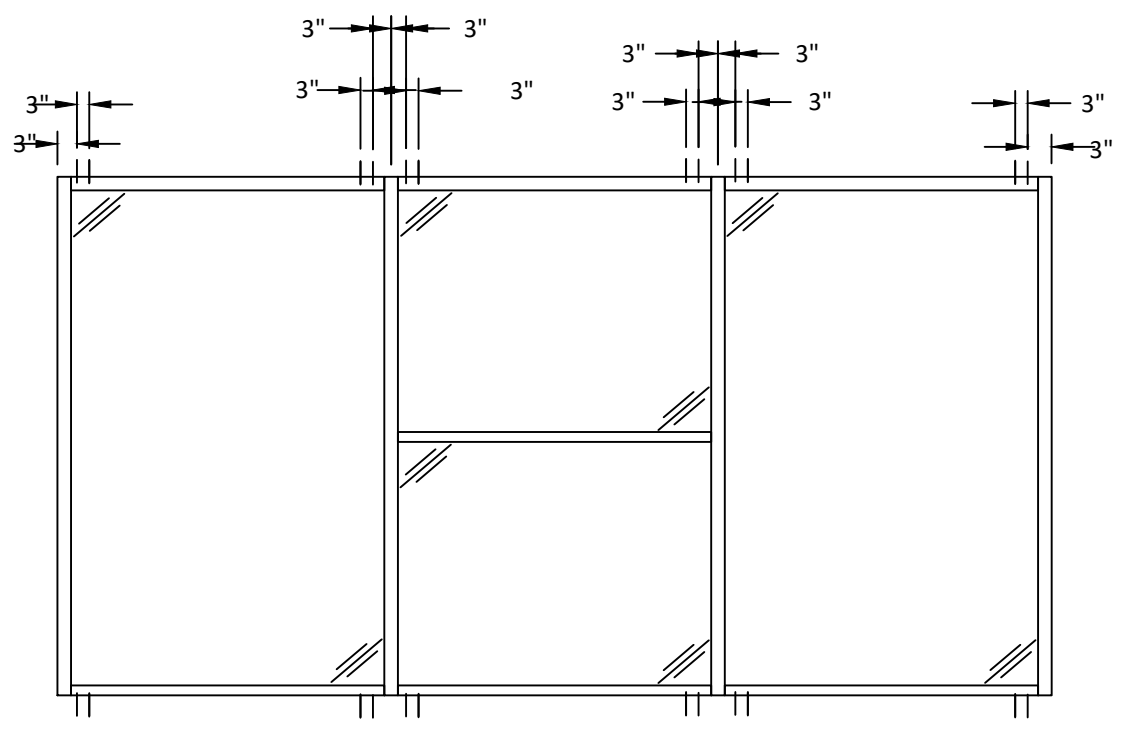
SHEET: **1** OF **8**

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ELEVATION



NOTE:
SEE SHEET 5 FOR CORRESPONDING ANCHOR TYPES AND CAPACITIES.

ANCHOR LAYOUT



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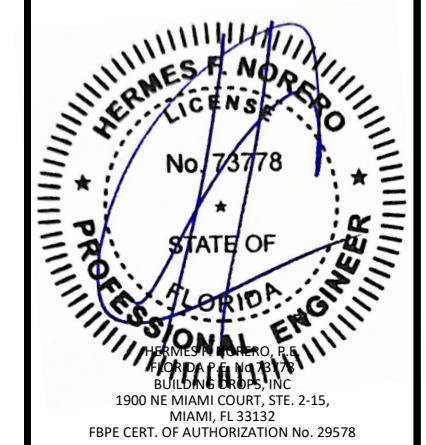
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2
OF 8

GLAZING DETAILS AND GLASS CAPACITY TABLE

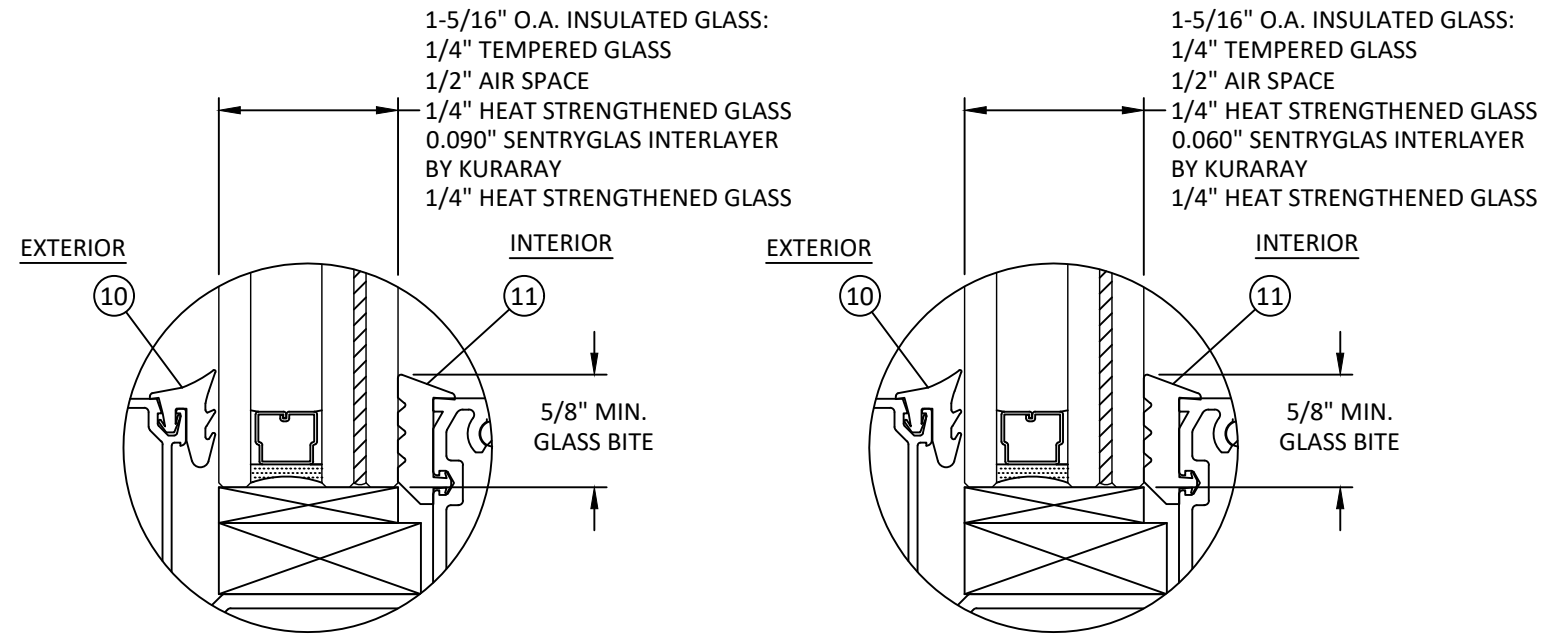
LARGE OR SMALL MISSILE IMPACT



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GLASS LOAD CAPACITY (PSF)						
DAYLIGHT OPENING (IN)		GLASS TYPE 1		GLASS TYPE 2		
DLO WIDTH	DLO HEIGHT	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	
27.5	55	70.0	70.0	60.0	70.0	
33.5		70.0	70.0	60.0	70.0	
39.5		70.0	70.0	60.0	70.0	
45.5		70.0	70.0	60.0	70.0	
51.5		70.0	70.0	60.0	70.0	
57.5		65.5	65.5	60.0	65.5	
63.5		56.2	56.2	56.2	56.2	
69.5		49.1	49.1	49.1	49.1	
75.5		43.7	43.7	43.7	43.7	
27.5		61	70.0	70.0	60.0	70.0
33.5	70.0		70.0	60.0	70.0	
39.5	70.0		70.0	60.0	70.0	
45.5	70.0		70.0	60.0	70.0	
51.5	70.0		70.0	60.0	70.0	
57.5	70.0		70.0	60.0	70.0	
63.5	60.5		60.5	60.0	60.5	
69.5	52.4		52.4	52.4	52.4	
75.5	46.2		46.2	46.2	46.2	
27.5	67		70.0	70.0	60.0	70.0
33.5		70.0	70.0	60.0	70.0	
39.5		70.0	70.0	60.0	70.0	
45.5		70.0	70.0	60.0	70.0	
51.5		67.0	67.0	60.0	67.0	
57.5		65.6	65.6	60.0	65.6	
63.5		65.5	65.5	60.0	65.5	
69.5		56.2	56.2	56.2	56.2	
75.5		49.1	49.1	49.1	49.1	
27.5		73	70.0	70.0	60.0	70.0
33.5	70.0		70.0	60.0	70.0	
39.5	70.0		70.0	60.0	70.0	
45.5	70.0		70.0	60.0	70.0	
51.5	67.0		67.0	60.0	67.0	
57.5	60.0		60.0	60.0	60.0	
63.5	58.9		58.9	58.9	58.9	
69.5	60.5		60.5	60.0	60.5	
27.5	79		52.4	52.4	52.4	52.4
33.5			70.0	70.0	60.0	70.0
39.5		70.0	70.0	60.0	70.0	
45.5		70.0	70.0	60.0	70.0	
51.5		70.0	70.0	60.0	70.0	
57.5		67.0	67.0	60.0	67.0	
63.5		60.0	60.0	60.0	60.0	

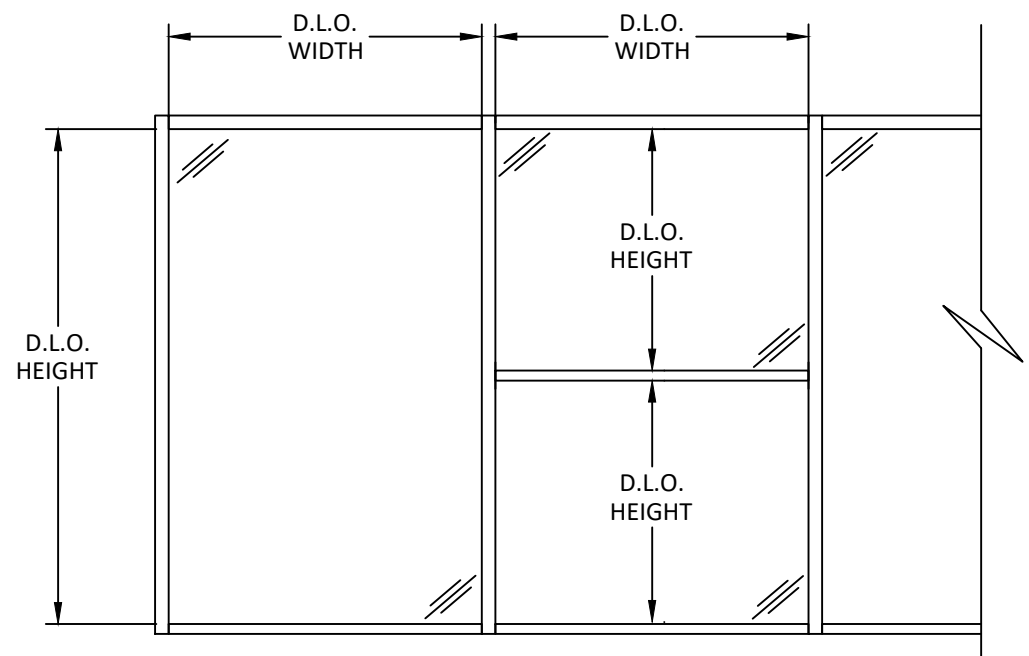
GLASS LOAD CAPACITY (PSF)					
DAYLIGHT OPENING (IN)		GLASS TYPE 1		GLASS TYPE 2	
DLO WIDTH	DLO HEIGHT	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
27.5	85	70.0	70.0	60.0	70.0
33.5		70.0	70.0	60.0	70.0
39.5		70.0	70.0	60.0	70.0
45.5		70.0	70.0	60.0	70.0
51.5		70.0	70.0	60.0	70.0
57.5		65.7	65.7	60.0	65.7
63.5		60.0	60.0	60.0	60.0
69.5		60.0	60.0	60.0	60.0
75.5		60.0	60.0	60.0	60.0
27.5		90.875	70.0	70.0	60.0
33.5	70.0		70.0	60.0	70.0
39.5	70.0		70.0	60.0	70.0
45.5	69.1		69.1	60.0	69.1
51.5	63.9		63.9	60.0	63.9
57.5	60.0		60.0	60.0	60.0
63.5	70.0		70.0	60.0	70.0
69.5	70.0		70.0	60.0	70.0
75.5	70.0		70.0	60.0	70.0
27.5	97		70.0	70.0	60.0
33.5		70.0	70.0	60.0	70.0
39.5		70.0	70.0	60.0	70.0
45.5		67.7	67.7	60.0	67.7
51.5		62.3	62.3	60.0	62.3
57.5		70.0	70.0	60.0	70.0
63.5		70.0	70.0	60.0	70.0
69.5		70.0	70.0	60.0	70.0
75.5		70.0	70.0	60.0	70.0
27.5		103	70.0	70.0	60.0
33.5	70.0		70.0	60.0	70.0
39.5	70.0		70.0	60.0	70.0
45.5	66.5		66.5	60.0	66.5
51.5	70.0		70.0	60.0	70.0
57.5	70.0		70.0	60.0	70.0
63.5	70.0		70.0	60.0	70.0
69.5	70.0		70.0	60.0	70.0
75.5	70.0		70.0	60.0	70.0
27.5	109		70.0	70.0	60.0
33.5		70.0	70.0	60.0	70.0
39.5		70.0	70.0	60.0	70.0
45.5		65.5	65.5	60.0	65.5
51.5		70.0	70.0	60.0	70.0
57.5		70.0	70.0	60.0	70.0
63.5		70.0	70.0	60.0	70.0
69.5		70.0	70.0	60.0	70.0
75.5		70.0	70.0	60.0	70.0
27.5		115	70.0	70.0	60.0
33.5	70.0		70.0	60.0	70.0
39.5	70.0		70.0	60.0	70.0
45.5	70.0		70.0	60.0	70.0
51.5	70.0		70.0	60.0	70.0
57.5	70.0		70.0	60.0	70.0
63.5	70.0		70.0	60.0	70.0
69.5	70.0		70.0	60.0	70.0
75.5	70.0		70.0	60.0	70.0
27.5	121		70.0	70.0	60.0
33.5		70.0	70.0	60.0	70.0
39.5		70.0	70.0	60.0	70.0
45.5		70.0	70.0	60.0	70.0
51.5		70.0	70.0	60.0	70.0
57.5		70.0	70.0	60.0	70.0
63.5		70.0	70.0	60.0	70.0
69.5		70.0	70.0	60.0	70.0
75.5		70.0	70.0	60.0	70.0
27.5		127	70.0	70.0	60.0
33.5	70.0		70.0	60.0	70.0
39.5	70.0		70.0	60.0	70.0
45.5	70.0		70.0	60.0	70.0
51.5	70.0		70.0	60.0	70.0
57.5	70.0		70.0	60.0	70.0
63.5	70.0		70.0	60.0	70.0
69.5	70.0		70.0	60.0	70.0
75.5	70.0		70.0	60.0	70.0
27.5	133		70.0	70.0	60.0
33.5		70.0	70.0	60.0	70.0
39.5		70.0	70.0	60.0	70.0
45.5		70.0	70.0	60.0	70.0
51.5		70.0	70.0	60.0	70.0
57.5		70.0	70.0	60.0	70.0
63.5		70.0	70.0	60.0	70.0
69.5		70.0	70.0	60.0	70.0
75.5		70.0	70.0	60.0	70.0
27.5		139	70.0	70.0	60.0
33.5	70.0		70.0	60.0	70.0
39.5	70.0		70.0	60.0	70.0
45.5	70.0		70.0	60.0	70.0
51.5	70.0		70.0	60.0	70.0
57.5	70.0		70.0	60.0	70.0
63.5	70.0		70.0	60.0	70.0
69.5	70.0		70.0	60.0	70.0
75.5	70.0		70.0	60.0	70.0
27.5	145		70.0	70.0	60.0
33.5		70.0	70.0	60.0	70.0
39.5		70.0	70.0	60.0	70.0
45.5		70.0	70.0	60.0	70.0
51.5		70.0	70.0	60.0	70.0
57.5		70.0	70.0	60.0	70.0
63.5		70.0	70.0	60.0	70.0
69.5		70.0	70.0	60.0	70.0
75.5		70.0	70.0	60.0	70.0
27.5		151	70.0	70.0	60.0
33.5	70.0		70.0	60.0	70.0
39.5	70.0		70.0	60.0	70.0
45.5	70.0		70.0	60.0	70.0
51.5	70.0		70.0	60.0	70.0
57.5	70.0		70.0	60.0	70.0
63.5	70.0		70.0	60.0	70.0
69.5	70.0		70.0	60.0	70.0
75.5	70.0		70.0	60.0	70.0
27.5	157		70.0	70.0	60.0
33.5		70.0	70.0	60.0	70.0
39.5		70.0	70.0	60.0	70.0
45.5		70.0	70.0	60.0	70.0
51.5		70.0	70.0	60.0	70.0
57.5		70.0	70.0	60.0	70.0
63.5		70.0	70.0	60.0	70.0
69.5		70.0	70.0	60.0	70.0
75.5		70.0	70.0	60.0	70.0



GLAZING DETAIL 1

GLAZING DETAIL 2

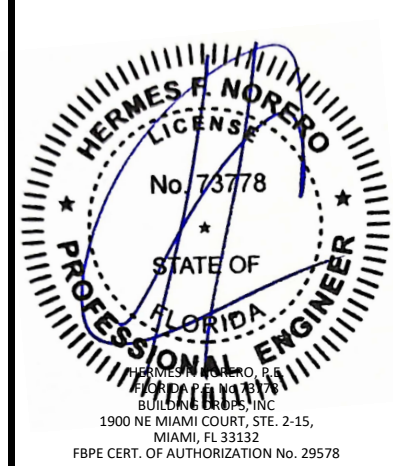
- GLAZING NOTES:**
- GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300 (3 SEC. GUSTS) AND CHAPTER 17 OF THE CURRENT FBC FOR SIZES OTHER THAN TESTED.
 - SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN CHAPTER 24.
 - SETTING BLOCKS TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36" AS PER CHAPTER 24.
 - D.L.O. MAY NOT EXCEED MAX DIMENSIONS IN GLASS CHARTS FOR GLASS TYPE.



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GLAZING DETAILS & GLASS CAPACITY TABLES
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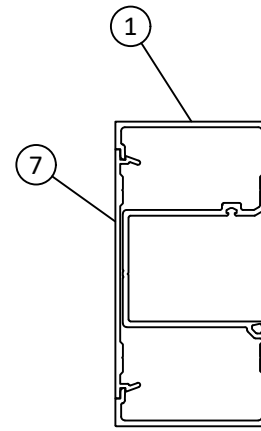


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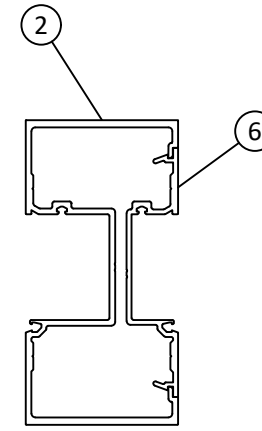
MULLION CAPACITY TABLES

DESIGN LOAD CAPACITY - PSF						
NOMINAL DIMS.		JAMB - J1		MULLION - M1		
WIDTH (W)	FRAME HEIGHT	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	
30	60	70.0	70.0	70.0	70.0	
36		70.0	70.0	70.0	70.0	
42		70.0	70.0	70.0	70.0	
48		70.0	70.0	70.0	70.0	
54		70.0	70.0	70.0	70.0	
60		70.0	70.0	70.0	70.0	
66		70.0	70.0	70.0	70.0	
72		70.0	70.0	70.0	70.0	
78		70.0	70.0	70.0	70.0	
30		66	70.0	70.0	70.0	70.0
36	70.0		70.0	70.0	70.0	
42	70.0		70.0	70.0	70.0	
48	70.0		70.0	70.0	70.0	
54	70.0		70.0	70.0	70.0	
60	70.0		70.0	70.0	70.0	
66	70.0		70.0	70.0	70.0	
72	70.0		70.0	70.0	70.0	
78	67.1		67.1	67.1	67.1	
30	72		70.0	70.0	70.0	70.0
36		70.0	70.0	70.0	70.0	
42		70.0	70.0	70.0	70.0	
48		70.0	70.0	70.0	70.0	
54		70.0	70.0	70.0	70.0	
60		70.0	70.0	70.0	70.0	
66		70.0	70.0	70.0	70.0	
72		66.7	66.7	66.7	66.7	
78		61.5	61.5	61.5	61.5	
30		78	70.0	70.0	70.0	70.0
36	70.0		70.0	70.0	70.0	
42	70.0		70.0	70.0	70.0	
48	70.0		70.0	70.0	70.0	
54	70.0		70.0	70.0	70.0	
60	70.0		70.0	70.0	70.0	
66	67.1		67.1	67.1	67.1	
72	61.5		61.5	61.5	61.5	
30	84		70.0	70.0	70.0	70.0
36			70.0	70.0	70.0	70.0
42		70.0	70.0	70.0	70.0	
48		70.0	70.0	70.0	70.0	
54		70.0	70.0	70.0	70.0	
60		68.6	68.6	68.6	68.6	
66		62.3	62.3	62.3	62.3	

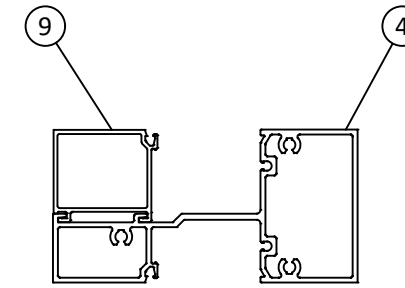
DESIGN LOAD CAPACITY - PSF					
NOMINAL DIMS.		JAMB - J1		MULLION - M1	
WIDTH (W)	FRAME HEIGHT	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
30	90	70.0	70.0	70.0	70.0
36		70.0	70.0	70.0	70.0
42		70.0	70.0	70.0	70.0
48		70.0	70.0	70.0	70.0
54		70.0	70.0	70.0	70.0
60		64.0	64.0	64.0	64.0
30	96	70.0	70.0	70.0	70.0
36		70.0	70.0	70.0	70.0
42		70.0	70.0	70.0	70.0
48		70.0	70.0	70.0	70.0
54		66.7	66.7	66.7	66.7
60		60.0	60.0	60.0	60.0
30	102	70.0	70.0	70.0	70.0
36		70.0	70.0	70.0	70.0
42		70.0	70.0	70.0	70.0
48		62.5	62.5	62.5	62.5
54		55.6	55.6	55.6	55.6
60		48.0	48.0	48.0	48.0
30	108	70.0	70.0	70.0	70.0
36		70.0	70.0	70.0	70.0
42		60.2	60.2	60.2	60.2
48		52.7	52.7	52.7	52.7
54		45.0	45.0	45.0	45.0
60		37.5	37.5	37.5	37.5
30	114	70.0	70.0	70.0	70.0
36		59.7	59.7	59.7	59.7
42		51.2	51.2	51.2	51.2
48		44.8	44.8	44.8	44.8
54		38.5	38.5	38.5	38.5
60		32.0	32.0	32.0	32.0
30	120	61.4	61.4	61.4	61.4
36		51.2	51.2	51.2	51.2
42		43.9	43.9	43.9	43.9
48		37.5	37.5	37.5	37.5
54		31.1	31.1	31.1	31.1
60		24.6	24.6	24.6	24.6
30	126	44.2	44.2	44.2	44.2
36		37.9	37.9	37.9	37.9
42		31.5	31.5	31.5	31.5
48		25.2	25.2	25.2	25.2
54		18.8	18.8	18.8	18.8
60		12.5	12.5	12.5	12.5
30	132	46.2	46.2	46.2	46.2
36		38.5	38.5	38.5	38.5
42		30.8	30.8	30.8	30.8
48		23.1	23.1	23.1	23.1
54		15.4	15.4	15.4	15.4
60		7.7	7.7	7.7	7.7
30	138	40.4	40.4	40.4	40.4
36		33.7	33.7	33.7	33.7
42		27.0	27.0	27.0	27.0
48		20.3	20.3	20.3	20.3
54		13.6	13.6	13.6	13.6
60		6.9	6.9	6.9	6.9
30	144	35.6	35.6	35.6	35.6
36		29.6	29.6	29.6	29.6
42		23.5	23.5	23.5	23.5
48		17.4	17.4	17.4	17.4
54		11.3	11.3	11.3	11.3
60		5.2	5.2	5.2	5.2
30	150	31.5	31.5	31.5	31.5
36		26.2	26.2	26.2	26.2
42		20.9	20.9	20.9	20.9
48		15.6	15.6	15.6	15.6
54		10.3	10.3	10.3	10.3
60		5.0	5.0	5.0	5.0
30	156	28.0	28.0	28.0	28.0
36		23.3	23.3	23.3	23.3
42		18.6	18.6	18.6	18.6
48		13.9	13.9	13.9	13.9
54		9.2	9.2	9.2	9.2
60		4.5	4.5	4.5	4.5
30	162	25.0	25.0	25.0	25.0



JAMB - 'J1'

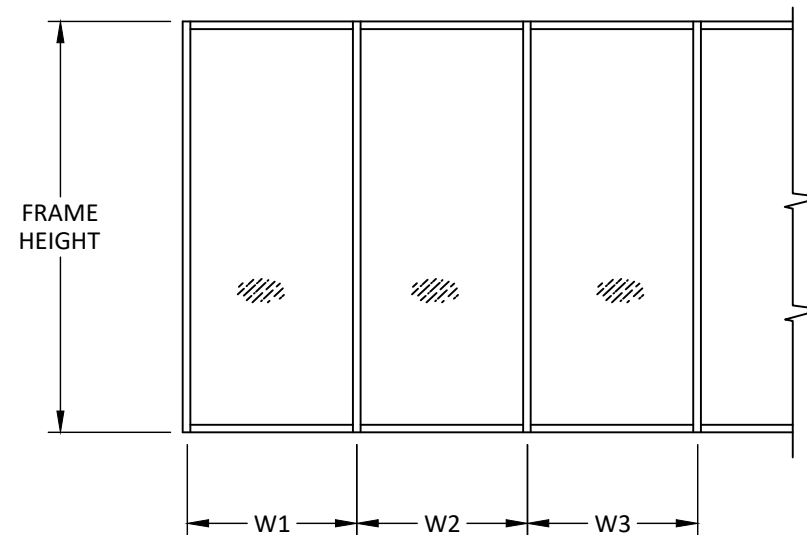


MULLION - 'M1'



HORIZONTAL - 'H1'

LIMIT DESIGN LOADS FOR HORIZONTAL AS FOLLOWS		
MAX HORIZ. SPAN (in.)	MAX GLASS HEIGHT ABOVE HORIZ. (in.)	MAX DESIGN LOADS (PSF)
		HORIZONTAL - H1
39.5	66	70
45.5	60	70
51.5	54	70
57.5	48	70
63.5	42	70
69.5	36	70
75.5	30	70



WIDTH (W) = W1 (JAMB)

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



2301 EAST VERNON AVE.
VERNON, CA 90058
PH: (323) 771-9819

TITLE: SERIES IP-2551 ALUMINUM WINDOW WALL SYSTEM (WZ3) (IMPACT)

MULLION CAPACITY TABLES

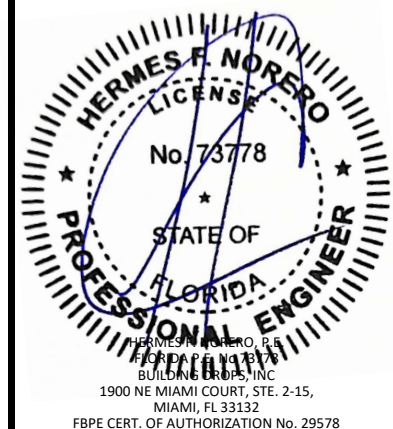
PREPARED BY: BUILDING DROPS, INC.

1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
PH: (954) 399-8478
FAX: (954) 474-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE

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FL #: **FL46564**

DATE: **02.19.2024**

DWG. BY: **SH** CHK. BY: **HN**

SCALE: **NTS**

DWG. #: **ARC014**

SHEET:

4

OF 8

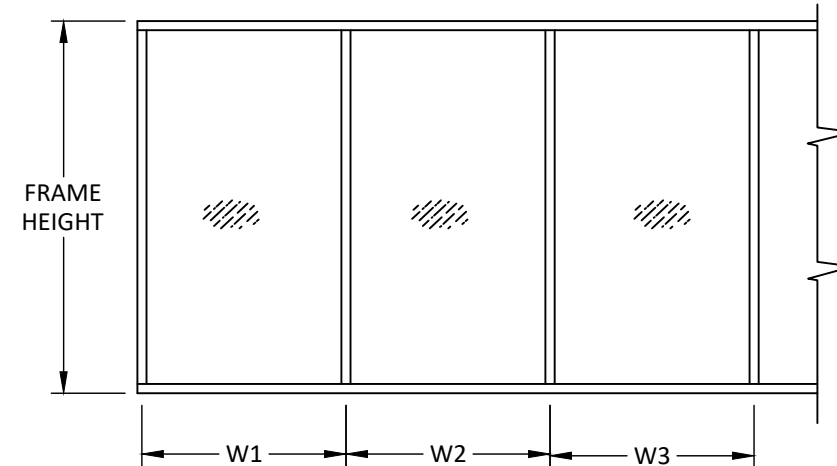
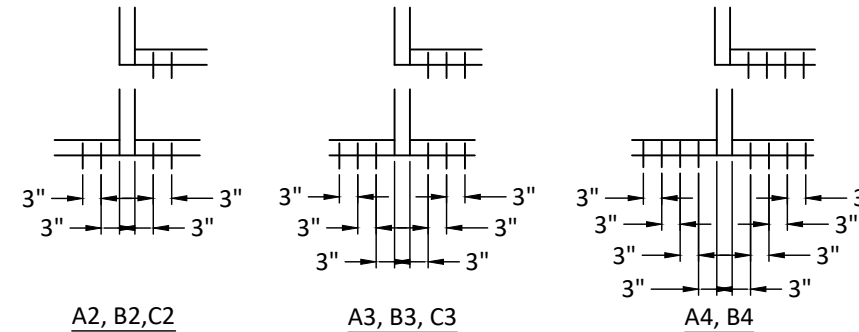
2/26/2024 4:45 PM
s:\projects\arcadia_incl\bc-23-0917.3 - fbc submittal - ip2550 & ip2551 window wall system.dwg\arc014.dwg

ANCHOR TYPES 'A, B, & C' CAPACITY TABLES

ANCHORS TYPES: SEE TABLE BELOW FOR DESCRIPTION

- A2 = (2) ANCHORS TYPE 'A' AT JAMB OR EACH SIDE OF MULLION
- A3 = (3) ANCHORS TYPE 'A' AT JAMB OR EACH SIDE OF MULLION
- A4 = (4) ANCHORS TYPE 'A' AT JAMB OR EACH SIDE OF MULLION
- B2 = (2) ANCHORS TYPE 'B' AT JAMB OR EACH SIDE OF MULLION
- B3 = (3) ANCHORS TYPE 'B' AT JAMB OR EACH SIDE OF MULLION
- B4 = (4) ANCHORS TYPE 'B' AT JAMB OR EACH SIDE OF MULLION
- C2 = (2) ANCHORS TYPE 'C' AT JAMB OR EACH SIDE OF MULLION
- C3 = (3) ANCHORS TYPE 'C' AT JAMB OR EACH SIDE OF MULLION

ALL OTHER ANCHORS TO BE SPACED AS PER ELEVATION



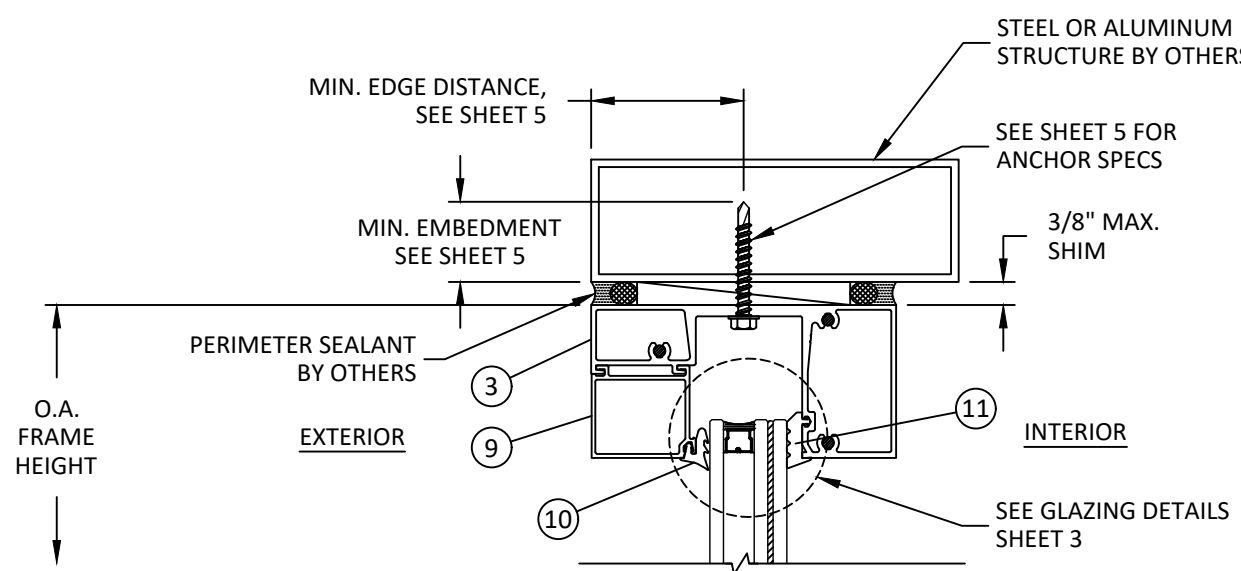
WIDTH (W) = W1 (JAMB)

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

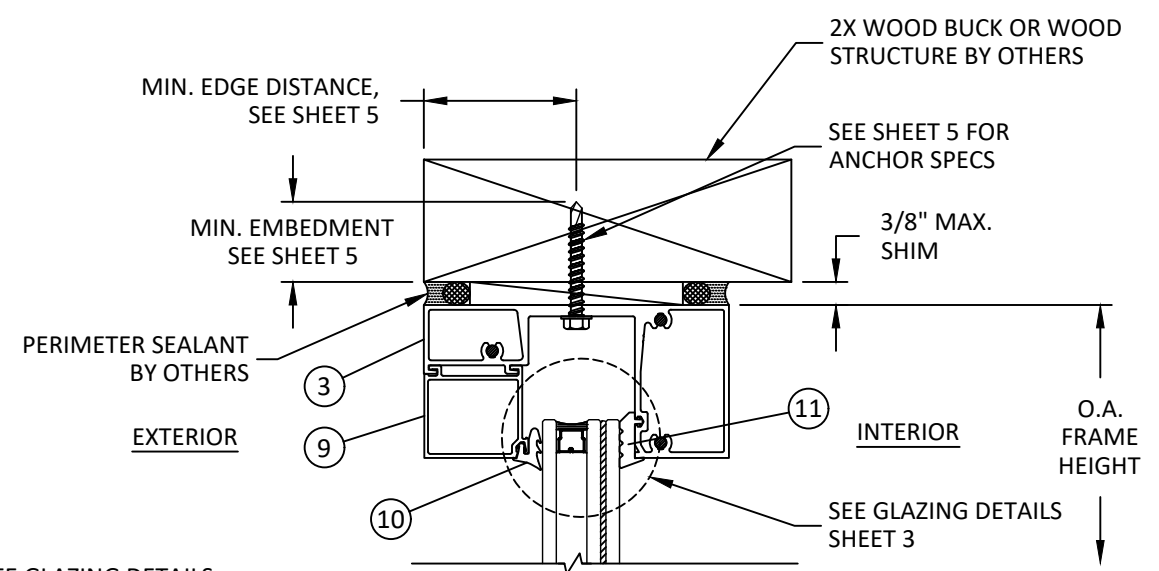
ANCHOR LOAD CAPACITY - PSF EXT. (+) & INT. (-)									
NOMINAL DIMS.		ANCHORS TYPE 'A'			ANCHORS TYPE 'B'			ANCHORS TYPE 'C'	
WIDTH (W)	FRAME HEIGHT	A2	A3	A4	B2	B3	B4	C2	C3
30.0	60.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
36.0		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
42.0		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
48.0		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
54.0		70.0	70.0	70.0	67.8	70.0	70.0	70.0	70.0
60.0		66.9	70.0	70.0	61.1	70.0	70.0	70.0	70.0
66.0		60.9	70.0	70.0	55.5	70.0	70.0	70.0	70.0
72.0		55.8	70.0	70.0	50.9	70.0	70.0	70.0	70.0
78.0		51.5	70.0	70.0	47.0	70.0	70.0	69.2	70.0
84.0		43.5	65.2	70.0	39.7	59.5	70.0	58.4	70.0
30.0	66.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
36.0		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
42.0		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
48.0		70.0	70.0	70.0	69.4	70.0	70.0	70.0	70.0
54.0		67.6	70.0	70.0	61.7	70.0	70.0	70.0	70.0
60.0		60.9	70.0	70.0	55.5	70.0	70.0	70.0	70.0
66.0		55.3	70.0	70.0	50.5	70.0	70.0	70.0	70.0
72.0		50.7	70.0	70.0	46.3	69.4	70.0	68.2	70.0
78.0		46.8	70.0	70.0	42.7	64.1	70.0	62.9	70.0
84.0		43.5	65.2	70.0	39.7	59.5	70.0	58.4	70.0
30.0	72.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
36.0		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
42.0		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
48.0		69.7	70.0	70.0	63.6	70.0	70.0	70.0	70.0
54.0		62.0	70.0	70.0	56.5	70.0	70.0	70.0	70.0
60.0		55.8	70.0	70.0	50.9	70.0	70.0	70.0	70.0
66.0		50.7	70.0	70.0	46.3	69.4	70.0	68.2	70.0
72.0		46.5	69.7	70.0	42.4	63.6	70.0	62.5	70.0
78.0		42.9	64.4	70.0	39.1	58.7	70.0	57.7	70.0
84.0		43.5	65.2	70.0	39.7	59.5	70.0	58.4	70.0
30.0	78.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
36.0		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
42.0		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
48.0		64.4	70.0	70.0	58.7	70.0	70.0	70.0	70.0
54.0		57.2	70.0	70.0	52.2	70.0	70.0	70.0	70.0
60.0		51.5	70.0	70.0	47.0	70.0	70.0	69.2	70.0
66.0		46.8	70.0	70.0	42.7	64.1	70.0	62.9	70.0
72.0		42.9	64.4	70.0	39.1	58.7	70.0	57.7	70.0
78.0		42.9	64.4	70.0	39.1	58.7	70.0	57.7	70.0
84.0		43.5	65.2	70.0	39.7	59.5	70.0	58.4	70.0
30.0	84.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
36.0		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
42.0		68.3	70.0	70.0	62.3	70.0	70.0	70.0	70.0
48.0		59.8	70.0	70.0	54.5	70.0	70.0	70.0	70.0
54.0		53.1	70.0	70.0	48.5	70.0	70.0	70.0	70.0
60.0		47.8	70.0	70.0	43.6	65.4	70.0	64.3	70.0
66.0		43.5	65.2	70.0	39.7	59.5	70.0	58.4	70.0
72.0		42.9	64.4	70.0	39.1	58.7	70.0	57.7	70.0
78.0		42.9	64.4	70.0	39.1	58.7	70.0	57.7	70.0
84.0		43.5	65.2	70.0	39.7	59.5	70.0	58.4	70.0

ANCHOR LOAD CAPACITY - PSF EXT. (+) & INT. (-)									
NOMINAL DIMS.		ANCHORS TYPE 'A'			ANCHORS TYPE 'B'			ANCHORS TYPE 'C'	
WIDTH (W)	FRAME HEIGHT	A2	A3	A4	B2	B3	B4	C2	C3
30.0	90.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
36.0		70.0	70.0	70.0	67.8	70.0	70.0	70.0	70.0
42.0		63.8	70.0	70.0	58.2	70.0	70.0	70.0	70.0
48.0		55.8	70.0	70.0	50.9	70.0	70.0	70.0	70.0
54.0		49.6	70.0	70.0	45.2	67.8	70.0	66.7	70.0
60.0		44.6	66.9	70.0	40.7	61.1	70.0	60.0	70.0
66.0		40.7	61.1	70.0	36.8	57.9	70.0	57.9	70.0
72.0		36.8	57.9	70.0	33.0	54.1	70.0	54.1	70.0
78.0		33.0	54.1	70.0	29.2	50.3	70.0	50.3	70.0
84.0		29.2	50.3	70.0	25.4	46.5	70.0	46.5	70.0
30.0	96.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
36.0		69.7	70.0	70.0	63.6	70.0	70.0	70.0	70.0
42.0		59.8	70.0	70.0	54.5	70.0	70.0	70.0	70.0
48.0		52.3	70.0	70.0	47.7	70.0	70.0	70.0	70.0
54.0		46.5	69.7	70.0	42.4	63.6	70.0	62.5	70.0
60.0		40.7	61.1	70.0	36.8	57.9	70.0	57.9	70.0
66.0		36.8	57.9	70.0	33.0	54.1	70.0	54.1	70.0
72.0		33.0	54.1	70.0	29.2	50.3	70.0	50.3	70.0
78.0		29.2	50.3	70.0	25.4	46.5	70.0	46.5	70.0
84.0		25.4	46.5	70.0	21.6	42.7	70.0	42.7	70.0
30.0	102.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
36.0		65.6	70.0	70.0	59.9	70.0	70.0	70.0	70.0
42.0		56.3	70.0	70.0	51.3	70.0	70.0	70.0	70.0
48.0		49.2	70.0	70.0	44.9	67.3	70.0	66.2	70.0
54.0		43.8	65.6	70.0	39.9	59.9	70.0	58.8	70.0
60.0		39.0	61.1	70.0	35.0	55.0	70.0	54.0	70.0
66.0		35.0	57.9	70.0	31.0	51.0	70.0	50.0	70.0
72.0		31.0	54.1	70.0	27.0	47.0	70.0	46.0	70.0
78.0		27.0	50.3	70.0	23.0	43.0	70.0	42.0	70.0
84.0		23.0	46.5	70.0	19.0	39.0	70.0	38.0	70.0
30.0	108.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
36.0		62.0	70.0	70.0	56.5	70.0	70.0	70.0	70.0
42.0		53.1	70.0	70.0	48.5	70.0	70.0	70.0	70.0
48.0		46.5	69.7	70.0	42.4	63.6	70.0	62.5	70.0
54.0		40.7	61.1	70.0	36.8	57.9	70.0	57.9	70.0
60.0		36.8	57.9	70.0	33.0	54.1	70.0	54.1	70.0
66.0		33.0	54.1	70.0	29.2	50.3	70.0	50.3	70.0
72.0		29.2	50.3	70.0	25.4	46.5	70.0	46.5	70.0
78.0		25.4	46.5	70.0	21.6	42.7	70.0	42.7	70.0
84.0		21.6	42.7	70.0	17.8	38.9	70.0	38.9	70.0
30.0	114.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
36.0		58.7	70.0	70.0	53.6	70.0	70.0	70.0	70.0
42.0		50.3	70.0	70.0	45.9	68.9	70.0	67.7	70.0
48.0		44.0	66.1	70.0	40.2	60.3	70.0	59.2	70.0
54.0		39.0	61.1	70.0	35.0	55.0	70.0	54.0	70.0
60.0		35.0	57.9	70.0	31.0	51.0	70.0	50.0	70.0
66.0		31.0	54.1	70.0	27.0	47.0	70.0	46.0	70.0
72.0		27.0	50.3	70.0	23.0	43.0	70.0	42.0	70.0
78.0		23.0	46.5	70.0	19.0	39.0	70.0	38.0	70.0
84.0		19.0	42.7	70.0	15.0	35.0	70.0	34.0	70.0
30.0	120.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
36.0		55.8	70.0	70.0	50.9	70.0	70.0	70.0	70.0
42.0		47.8	70.0	70.0	43.6	65.4	70.0	64.3	70.0
48.0		40.7	61.1	70.0	36.8	57.9	70.0	57.9	70.0
54.0		36.8	57.9	70.0	33.0	54.1	70.0	54.1	70.0
60.0		33.0	54.1	70.0	29.2	50.3	70.0	50.3	70.0
66.0		29.2	50.3	70.0	25.4	46.5	70.0	46.5	70.0
72.0		25.4	46.5	70.0	21.6	42.7	70.0	42.7	70.0
78.0		21.6	42.7	70.0	17.8	38.9	70.0	38.9	70.0
84.0		17.8	38.9	70.0	14.0	35.0	70.0	35.0	70.0
30.0	126.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
36.0		63.8	70.0	70.0	58.2	70.0	70.0	70.0	70.0
42.0		53.1	70.0	70.0	48.5	70.0	70.0	70.0	70.0
48.0		46.5	68.3	70.0	41.5	62.3	70.0	61.2	70.0
54.0		40.7	61.1	70.0	36.8	57.9	70.0	57.9	70.0
60.0		36.8	57.9	70.0	33.0	54.1	70.0	54.1	70.0
66.0		33.0	54.1	70.0	29.2	50.3	70.0	50.3	70.0
72.0		29.2	50.3	70.0	25.4	46.5	70.0	46.5	70.0
78.0		25.4	46.5	70.0	21.6	42.7	70.0	42.7	70.0
84.0		21.6	42.7	70.0	17.8	38.9	70.0	38.9	70.0
30.0	132.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
36.0		50.7	70.0	70.0	46.3	69.4	70.0	68.2	70.0
42.0		43.5	65.2	70.0	39.7	59.5	70.0	58.4	70.0
48.0		39.0	61.1	70.0	35.0	55.0	70.0	54.0	70.0
54.0		35.0	57.9	70.0	31.0	51.0	70.0	50.0	70.0
60.0		31.0	54.1	70.0	27.0	47.0	70.0	46.0	70.0
66.0		27.0	50.3	70.0	23.0	43.0	70.0	42.0	70.0
72.0		23.0	46.5	70.0	19.0	39.0	70.0	38.0	70.0
7									

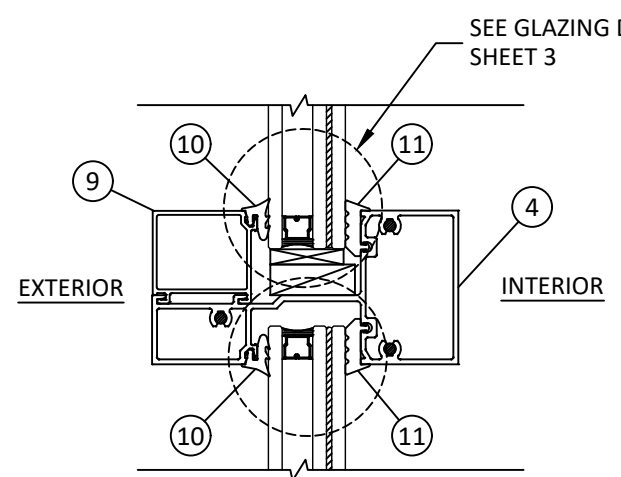
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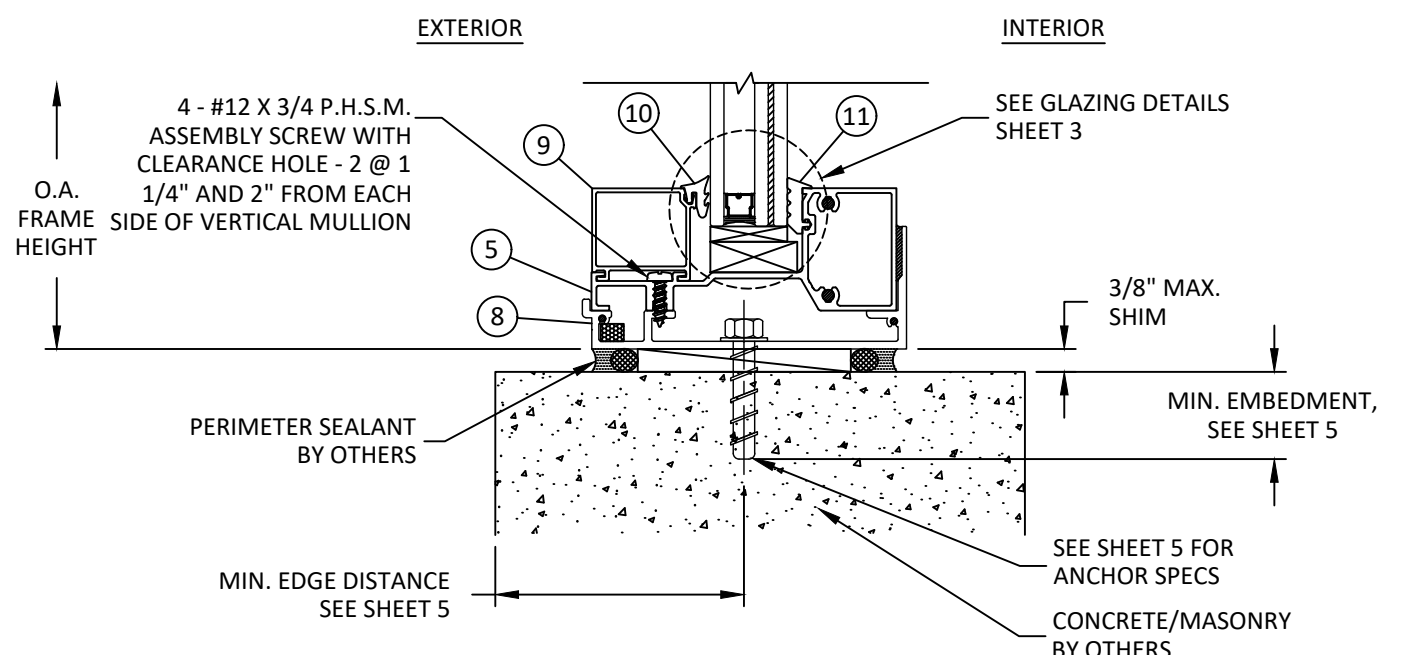
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6 VERTICAL SECTION
HEAD - STEEL / ALUMINUM SUBSTRATE



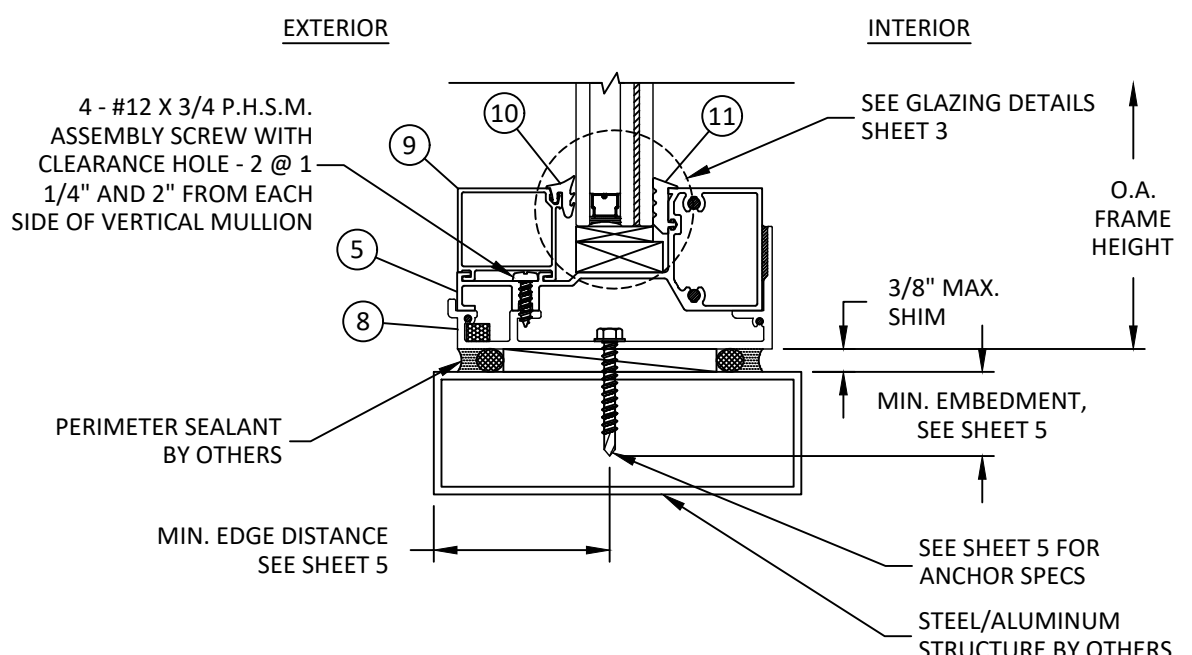
B
6 VERTICAL SECTION
HEAD - WOOD SUBSTRATE



C
6 VERTICAL SECTION
HORIZONTAL



D
6 VERTICAL SECTION
SILL - CONCRETE/MASONRY SUBSTRATE



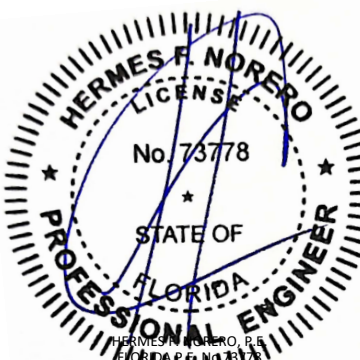
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6 VERTICAL SECTION
SILL - STEEL/ALUMINUM SUBSTRATE


 2301 EAST VERNON AVE.
 VERNON, CA 90058
 PH: (323) 771-9819

TITLE: SERIES IP-2551 ALUMINUM WINDOW WALL SYSTEM (WZ3) (IMPACT)
 VERTICAL SECTIONS
 PREPARED BY: BUILDING DROPS, INC.
 1900 NE MIAMI COURT, STE. 2-15
 MIAMI, FL 33132
 PH: (954) 399-8478
 FAX: (954) 474-4738
 WEB: www.buildingdrops.com


REMARKS	BY	DATE

THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.


 HERMES F. NORERO
 LICENSE
 No. 73778
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 HERMES F. NORERO, P.E.
 BUILDING DROPS, INC.
 1900 NE MIAMI COURT, STE. 2-15,
 MIAMI, FL 33132
 FBPE CERT. OF AUTHORIZATION No. 29578

FL #: **FL46564**
 DATE: **02.19.2024**
 DWG. BY: **SH** CHK. BY: **HN**
 SCALE: **NTS**
 DWG. #: **ARC014**

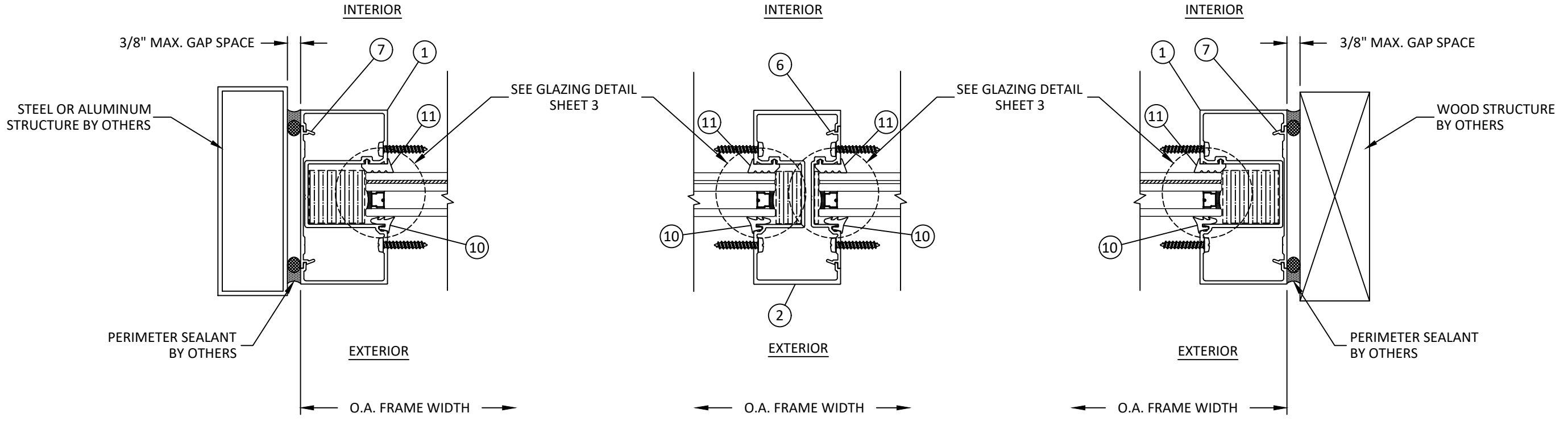
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2301 EAST VERNON AVE.
VERNON, CA 90058
PH: (323) 771-9819

TITLE: SERIES IP-2551 ALUMINUM WINDOW WALL SYSTEM (WZ3) (IMPACT)
HORIZONTAL SECTIONS

PREPARED BY:
BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
PH: (954)399-8478
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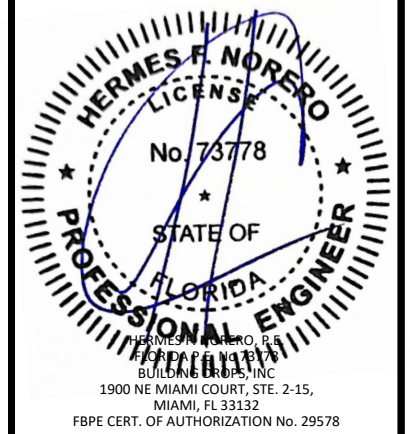
A
7 VERTICAL SECTION
JAMB - STEEL/ALUMINUM SUBSTRATE

B
7 VERTICAL SECTION
MULLION

C
7 VERTICAL SECTION
JAMB - WOOD SUBSTRATE

REMARKS	BY	DATE

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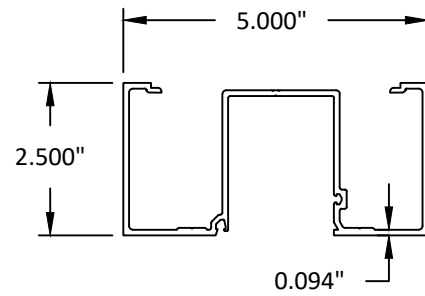


FL #:	FL46564
DATE:	02.19.2024
DWG. BY:	SH
CHK. BY:	HN
SCALE:	NTS
DWG. #:	ARC014
SHEET:	7

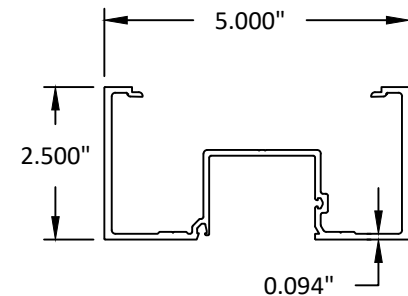
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BILL OF MATERIALS

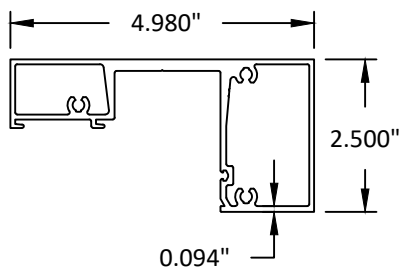
ITEM	PART No.	DESCRIPTION	MATERIAL	MANUFACTURER
1	IP-5122	JAMB	6063-T6	ARCADIA INC.
2	IP-5102	VERTICAL	6063-T6	ARCADIA INC.
3	IP-5123	HEAD	6063-T6	ARCADIA INC.
4	IP-5113	HORIZONTAL	6063-T6	ARCADIA INC.
5	IP-5153	SILL	6063-T6	ARCADIA INC.
6	IP-5110	VERTICAL FILLER	6063-T6	ARCADIA INC.
7	IP-500	JAMB FILLER	6063-T6	ARCADIA INC.
8	IP-551	SILL END DAM	6063-T6	ARCADIA INC.
9	IP-5113 STOP	FRAME STOP	6063-T6	ARCADIA INC.
10	VTL-TG	GLAZING GASKET	NEOPRENE	BY OTHERS
11	G-IPDG	GLAZING GASKET	NEOPRENE	BY OTHERS



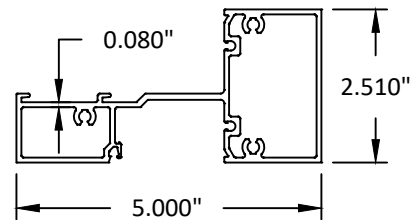
1 JAMB IP-522



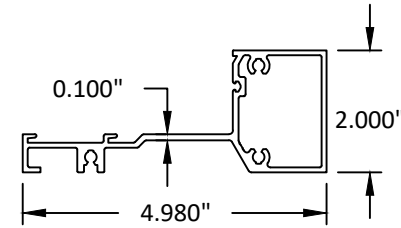
2 VERTICAL IP-502



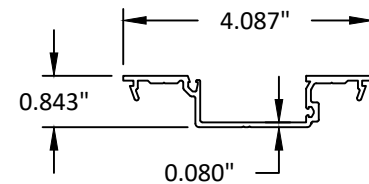
3 HEAD IP-523



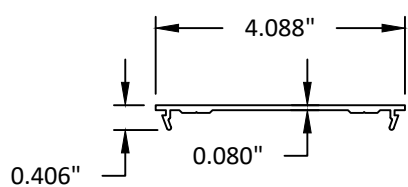
4 HORIZONTAL IP-513



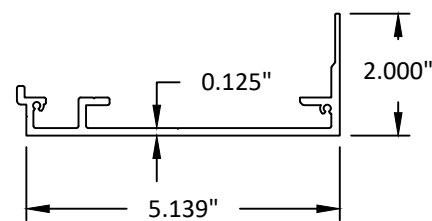
5 SILL IP-553



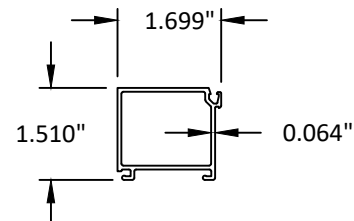
6 VERTICAL FILLER IP-510



7 JAMB FILLER IP-500



8 SILL END DAM IP-551



9 FRAME STOP IP-513 STOP



2301 EAST VERNON AVE.
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TITLE: SERIES IP-2551 ALUMINUM WINDOW WALL SYSTEM (WZ3) (IMPACT)

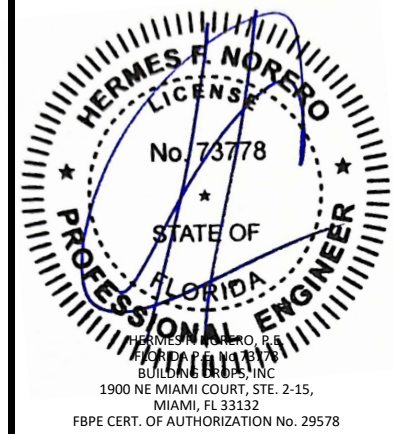
BILL OF MATERIALS AND COMPONENTS

PREPARED BY: BUILDING DROPS, INC.
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PH: (954)399-8478
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DWG. BY: **SH** CHK. BY: **HN**

SCALE: **NTS**

DWG. #: **ARC014**

SHEET: **8** OF 8