

LINEA ROSSA DESIGN LLC

LR-420F ALUMINUM FIXED CASEMENT WINDOW

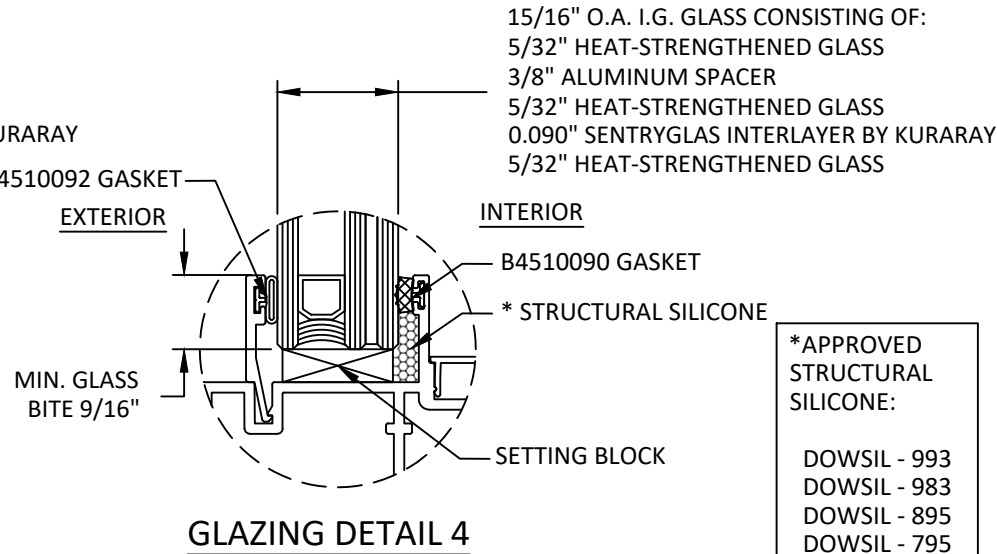
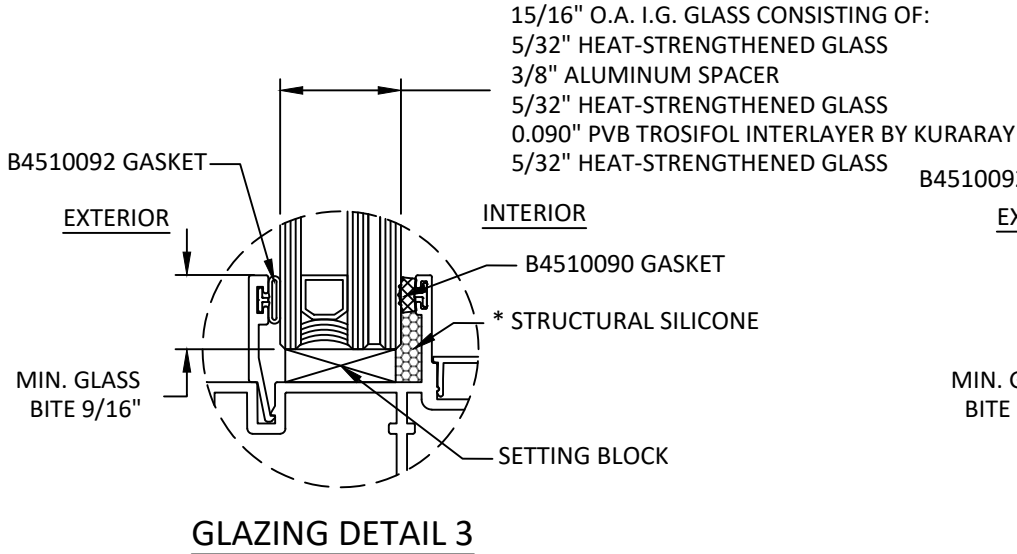
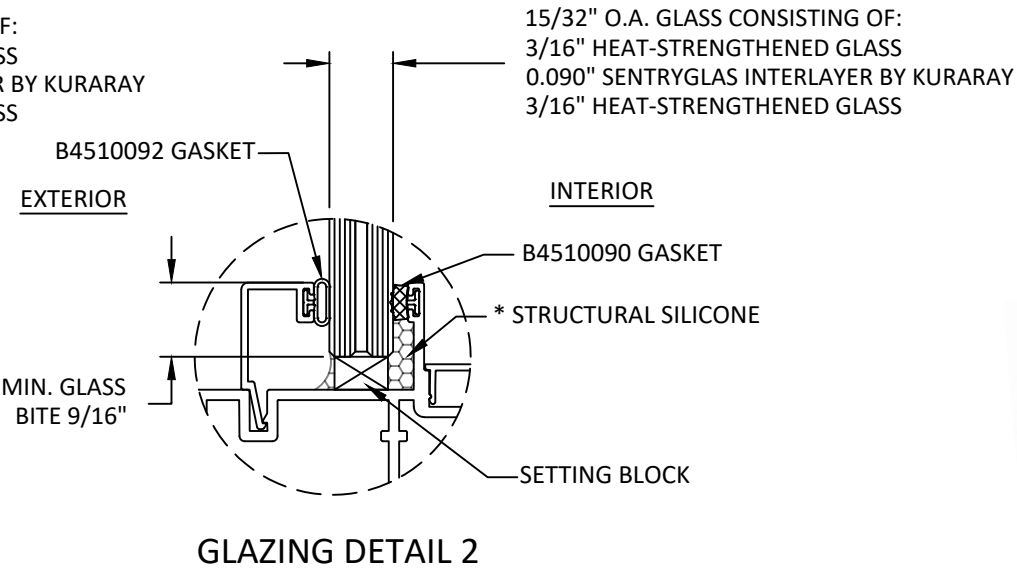
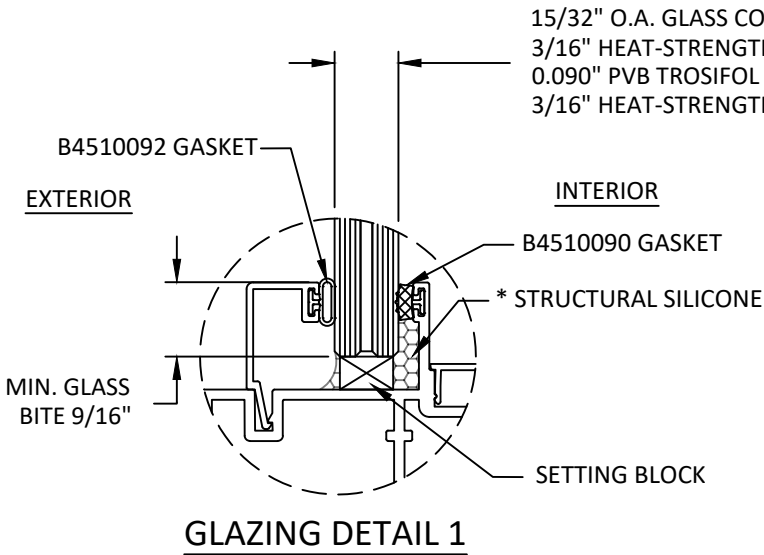
(HVHZ)(IMPACT)

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT EDITION FLORIDA BUILDING CODE (FBC), **INCLUDING** HVHZ, AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
- TAS 201-94
 - TAS 202-94
 - TAS 203-94
2. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X FRAMING, AND METAL 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.
3. 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.
4. 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 IN NON-HVHZ AREAS.
5. APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
6. WINDOW FRAME MATERIAL: ALUMINUM 6063-T6/ ALUMINUM 6063-T5
7. GLASS MEETS THE REQUIREMENTS OF ASTM E 1300 GLASS CHARTS. SEE SHEET 1 FOR GLAZING DETAILS.

MAX. WINDOW FRAME SIZE		CONFIG.	DESIGN PRESSURE	INTEGRAL MULLION	MISSILE IMPACT RATING
WIDTH	HEIGHT				
SEE SHEET 2	SEE SHEET 2	O	SEE SHEET 2	N/A	LARGE & SMALL MISSILE IMPACT
SEE SHEET 2 & 3	SEE SHEET 2 & 3	OO	SEE SHEET 2 & 3	LIGHT	
SEE SHEET 2 & 3	SEE SHEET 2 & 3	OO	SEE SHEET 2 & 3	HEAVY	

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10	INSTALLATION NOTES & ANCHOR DETAILS



GLAZING NOTES:

1. GLASS TYPE COMPLIES WITH ASTM E1300 REQUIREMENTS AS WELL AS APPLICABLE SAFETY GLAZING REQUIREMENTS PER THE FBC. TEMPER AND SAFETY GLAZING REQUIREMENTS SHALL BE REVIEWED ON A SITE SPECIFIC BASIS.
2. SACRIFICIAL LITE SHALL BE TEMPERED WHEN INSTALLED 30' OR HIGHER ABOVE GRADE IN HVHZ.
3. SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN FBC CHAPTER 24.
4. TWO APPROVED SETTING BLOCKS SHALL BE USED FOR GLASS WIDER THAN 36" AS PER FBC CHAPTER 24.
5. D.L.O. AND DESIGN PRESSURES MAY NOT EXCEED MAX. VALUES SHOWN ON TABLE IN SHEET 1 OR ELEVATIONS ON SHEETS 2 & 3.

*APPROVED
STRUCTURAL
SILICONE:

DOWSIL - 993
DOWSIL - 983
DOWSIL - 895
DOWSIL - 795

DESIGNED by
LINEA ROSSA®

1850 NW. 84TH AVE., STE. 114
DORAL, FL 33126
PH: (305)815-8797

TITLE: LR-420F ALUMINUM FIXED
CASEMENT WINDOW
(HVHZ)(IMPACT)

GENERAL NOTES & GLAZING DETAILS

PREPARED BY:

BUILDING DROPS, INC.

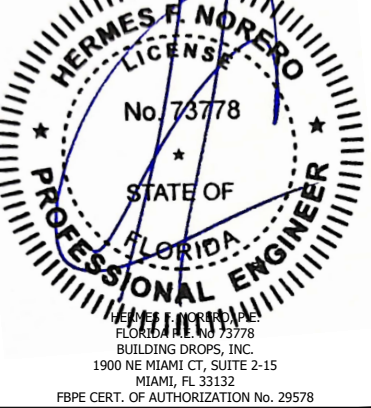
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
PH: (954)399-8478
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WEB: www.buildingdrops.com



REMARKS	BY	DATE
REVISION A	FB	8/6/24
2026 FBC UPDATE	LS	06/26

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Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2026.09.24 17:11:00 -07'00'



FL34543

DATE: 10.06.2023

DWG. BY:
SH

CHK. BY:
HFN

SCALE: NTS

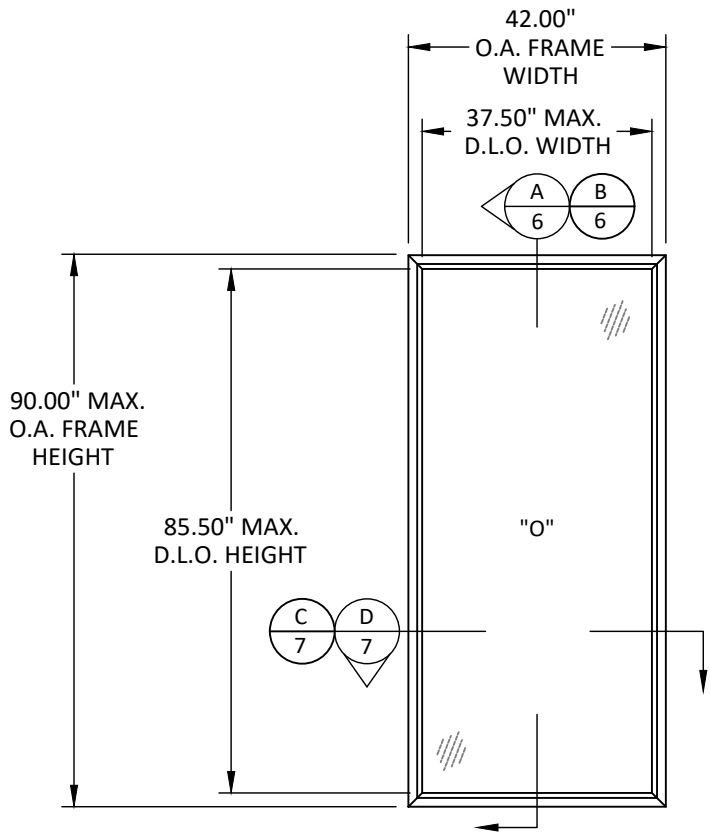
DWG. #: LRA012

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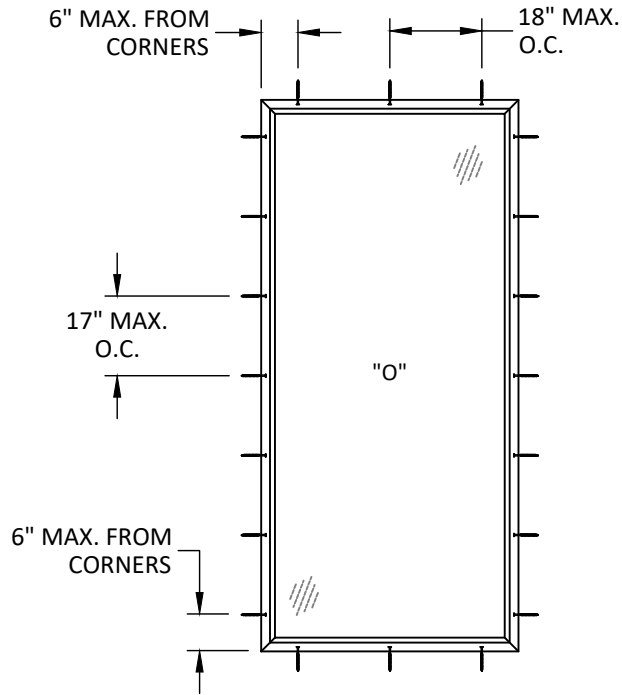
1

REV. B

OF 10



ELEVATION
SINGLE - FIXED WINDOW



ANCHOR LAYOUT
SINGLE THROUGH FRAME - FIXED WINDOW

SINGLE FIXED WINDOW DESIGN PRESSURE TABLE (+/- PSF)																										
FRAME HEIGHT (IN.)	FRAME WIDTH (IN.)																									
	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120	126	132	138	144	150	156		
	24	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
	30	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	-	-	-	-	-	-
	36	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	-	-	-	-	-	-	-	-	-	-
	42	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	-	-	-	-	-	-	-	-	-	-	-
	48	90.0	90.0	90.0	90.0	90.0	78.8	78.8	78.8	78.8	78.8	78.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	54	90.0	90.0	90.0	90.0	90.0	78.8	70.0	70.0	70.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	60	90.0	90.0	90.0	90.0	90.0	78.8	70.0	63.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	66	90.0	90.0	90.0	90.0	90.0	78.8	70.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	72	90.0	90.0	90.0	90.0	90.0	78.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	78	90.0	90.0	90.0	90.0	90.0	78.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	84	90.0	90.0	90.0	90.0	90.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	90	90.0	90.0	90.0	90.0	90.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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ELEVATION, ANCHOR LAYOUT,
& DESIGN PRESSURE TABLE

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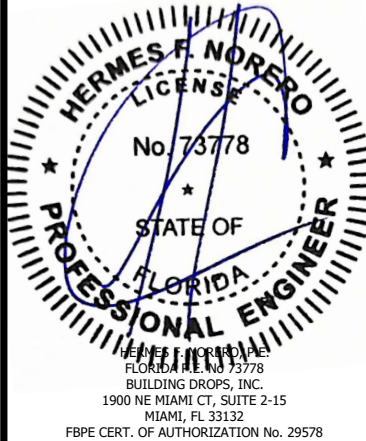
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2026 FBC UPDATE	LS	06/26

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SCALE: NTS

DWG. #: LRA012

SHEET:

2

REV.
B

OF 10

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ELEVATION & DESIGN PRESSURE TABLE

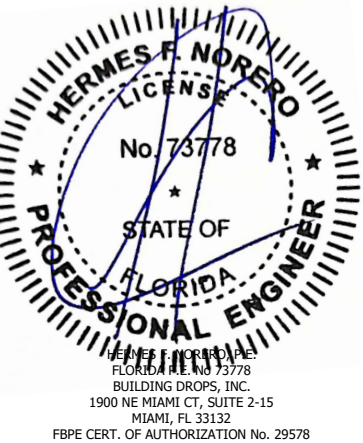
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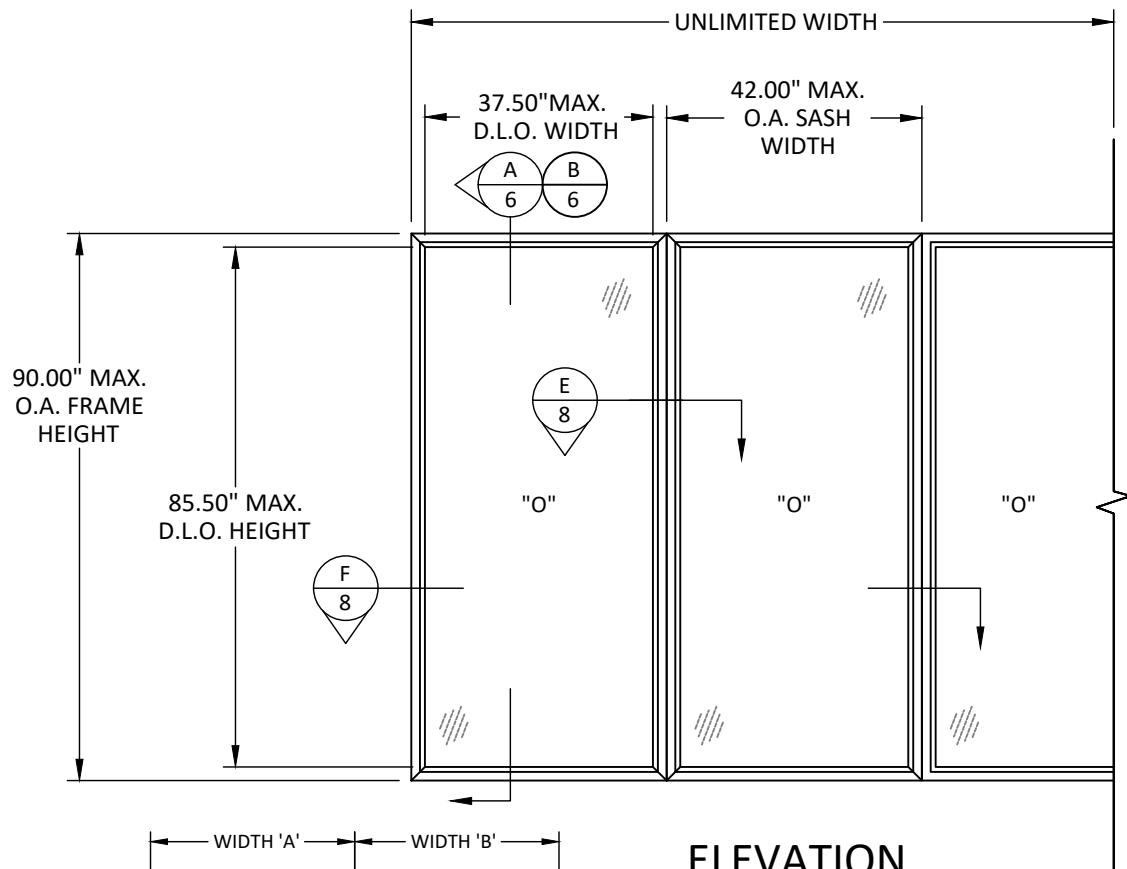
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SHEET:

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3

OF 10



ELEVATION

MULLED - FIXED WINDOW

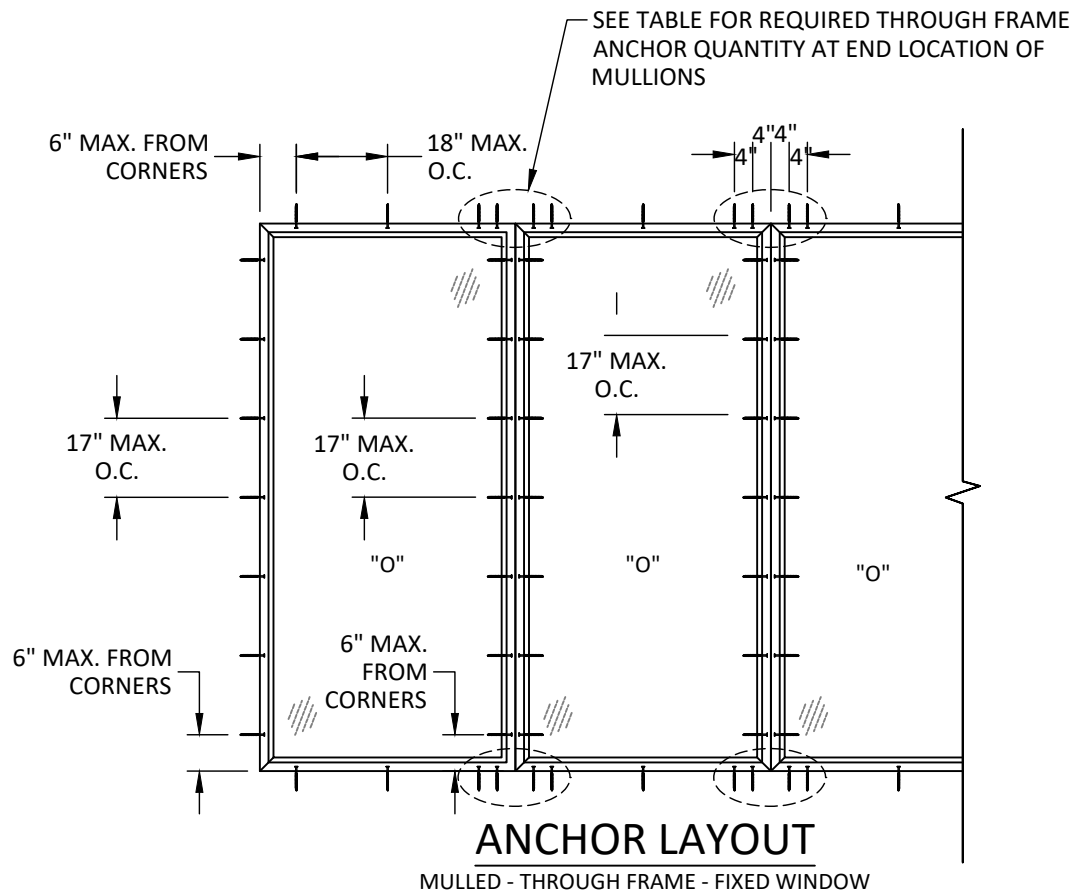
NOTE:
SINGLE WINDOW MAY BE MULLED WITH APPROVED TUBE
MULLION SYSTEM UNDER SEPARATE APPROVAL

THE LOWER DESIGN PRESSURE BETWEEN THE VALUES ON THESE TABLES AND THE TABLES ON SHEET 2 SHALL APPLY TO TWIN CONFIGURATION

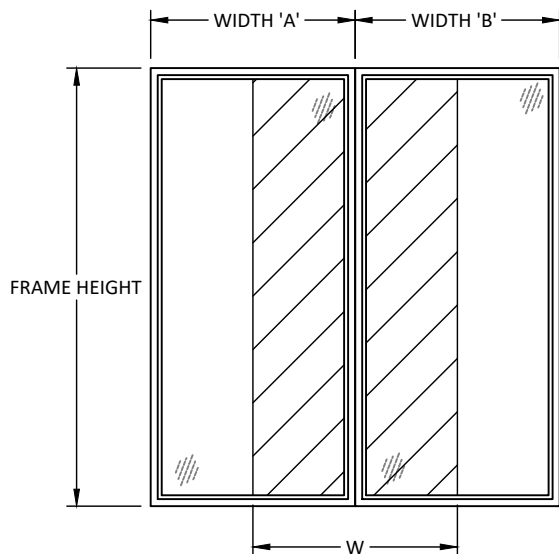
NOTE:

- TRIBUTARY WIDTH (W) = (A+B)/2

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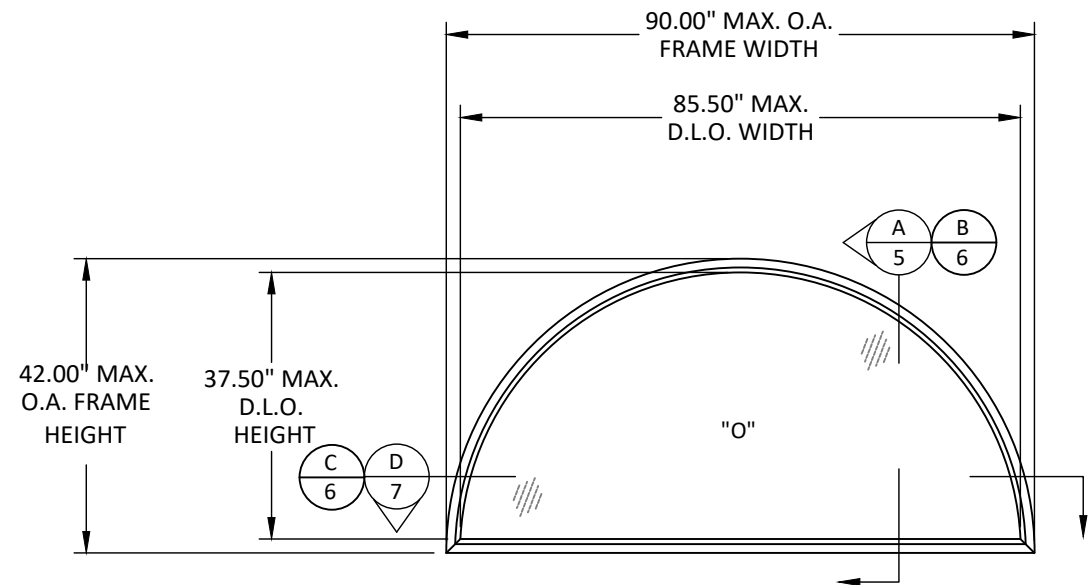


- NOTE:
- SINGLE WINDOW MAY BE MULLIED WITH APPROVED TUBE MULLION SYSTEM UNDER SEPARATE APPROVAL

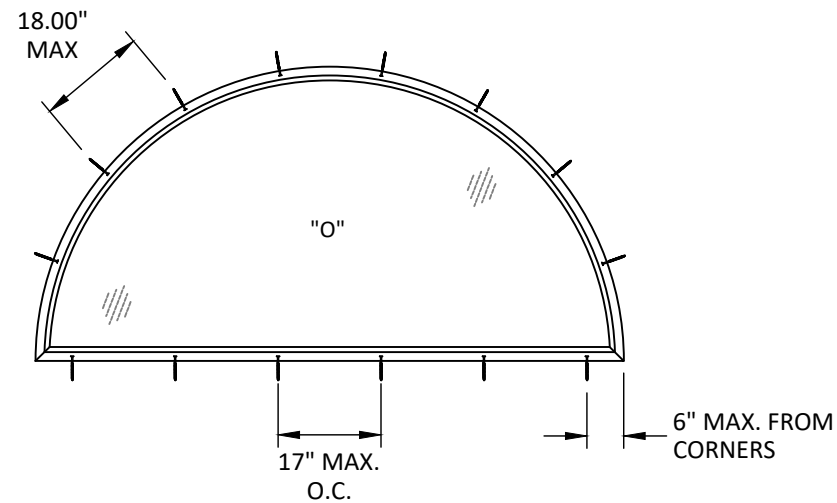


- NOTE:
- $W = (A+B)/2$

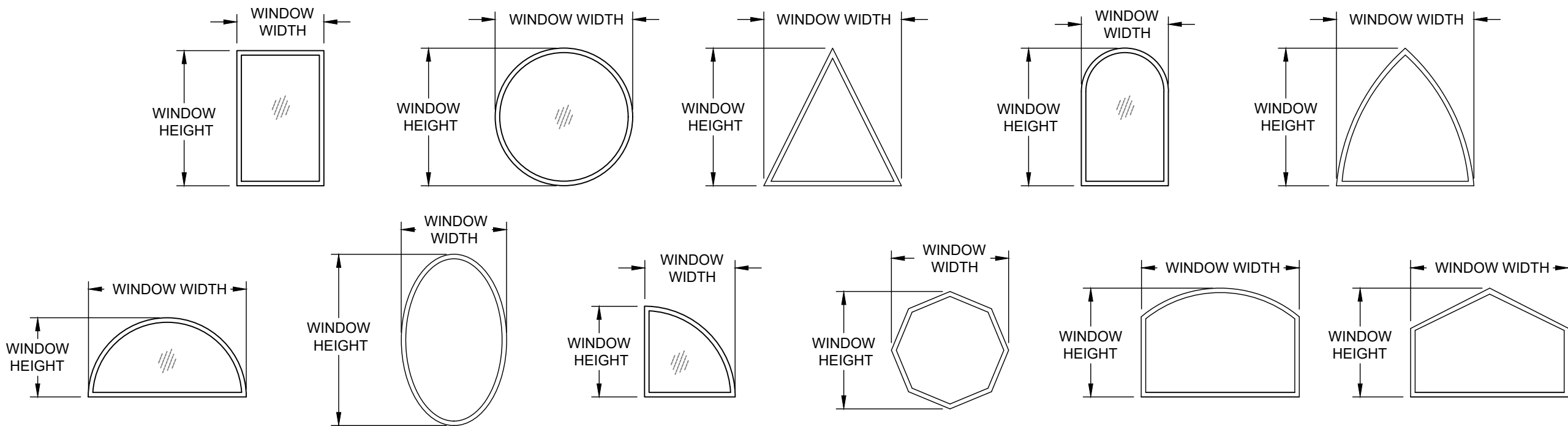
DESIGN PRESSURE TABLE (+/- PSF)												
WINDOW DIMENSIONS		ANCHOR QUANTITY PER SYSTEM SIZE AND PRESSURE										
TRIBUTARY WIDTH (IN.)	FRAME HEIGHT (IN.)	TYPE A		TYPE B		TYPE C		TYPE D		TYPE E		
		65 PSF	90 PSF	65 PSF	90 PSF	65 PSF	90 PSF	65 PSF	90 PSF	65 PSF	90 PSF	
18	24	1	1	1	1	1	1	1	1	1	1	
24		1	1	1	1	1	1	1	1	1	1	
30		1	1	1	1	1	1	1	1	1	1	
36		1	1	1	1	1	1	1	1	1	1	
42		1	1	1	1	1	1	1	2	1	2	
48		1	1	1	1	1	1	1	2	1	2	
54		1	2	1	1	1	1	1	2	1	2	
60		1	2	1	2	1	1	2	2	2	2	
66		1	2	1	2	1	1	2	2	2	2	
72		2	2	1	2	1	1	2	3	2	3	
78		2	2	2	2	1	1	2	3	2	3	
84		2	3	2	2	1	1	2	3	2	3	
90		2	3	2	2	1	2	2	3	2	3	
96		2	3	2	3	1	2	3	4	3	4	
102		2	3	2	3	1	2	3	4	3	4	
108		2	3	2	3	1	2	3	4	3	4	
114		3	3	2	3	1	2	3	4	3	4	
120		3	4	2	3	1	2	3	4	3	4	
126		3	4	2	3	2	2	3	5	3	5	
132		3	4	3	4	2	2	3	5	3	5	
138		3	4	3	4	2	2	4	5	4	5	
144		3	4	3	4	2	2	4	5	4	5	
150		3	5	3	4	2	3	4	5	4	5	
156		3	5	3	4	2	3	4	6	4	6	
18	30	1	1	1	1	1	1	1	1	1	1	
24		1	1	1	1	1	1	1	1	1	1	
30		1	1	1	1	1	1	1	1	1	1	
36		1	1	1	1	1	1	1	2	1	2	
42		1	2	1	1	1	1	1	2	1	2	
48		1	2	1	2	1	1	2	2	2	2	
54		1	2	1	2	1	1	2	2	2	2	
60		2	2	1	2	1	1	2	3	2	3	
66		2	3	2	2	1	1	2	3	2	3	
72		2	3	2	2	1	2	2	3	2	3	
78		2	3	2	3	1	2	3	4	3	4	
84		2	3	2	3	1	2	3	4	3	4	
90		2	3	2	3	1	2	3	4	3	4	
96		3	4	2	3	1	2	3	4	3	4	
102		3	4	2	3	2	2	3	5	3	5	
108		3	4	3	4	2	2	4	5	4	5	
114		3	4	3	4	2	2	4	5	4	5	
120		3	5	3	4	2	3	4	5	4	5	
126		3	5	3	4	2	3	4	6	4	6	
18		36	1	1	1	1	1	1	1	1	1	1
24			1	1	1	1	1	1	1	1	1	1
30			1	1	1	1	1	1	1	2	1	2
36			1	2	1	1	1	1	1	2	1	2
42			1	2	1	2	1	1	2	2	2	2
48	2		2	1	2	1	1	2	3	2	3	
54	2		2	2	2	1	1	2	3	2	3	
60	2		3	2	2	1	2	2	3	2	3	
66	2		3	2	3	1	2	3	4	3	4	
72	2		3	2	3	1	2	3	4	3	4	
78	3		4	2	3	1	2	3	4	3	4	
84	3		4	2	3	2	2	3	5	3	5	
90	3		4	3	4	2	2	4	5	4	5	
96	3		4	3	4	2	2	4	5	4	5	
102	3		4	3	4	2	2	4	5	4	5	
108	3		4	3	4	2	2	4	5	4	5	
114	3		4	3	4	2	2	4	5	4	5	
120	3		5	3	4	2	3	4	6	4	6	
126	3		5	3	4	2	3	4	6	4	6	



ELEVATION
RADIUS - FIXED WINDOW



ANCHOR LAYOUT
RADIUS - THROUGH FRAME - FIXED WINDOW



ELEVATION
APPROVED WINDOW CONFIGURATIONS
OPTIONS

NOTE:
• APPROVED SHAPED SHOWN SHALL BE LIMITED TO THE RECTANGULAR SINGLE WINDOW DIMENSIONS SHOWN ON SHEET 2.

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ELEVATION, ANCHOR LAYOUT, & QUALIFIED SHAPES

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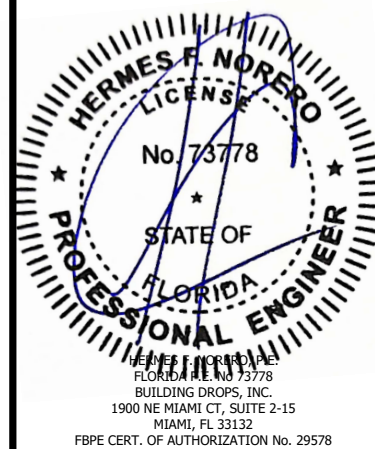
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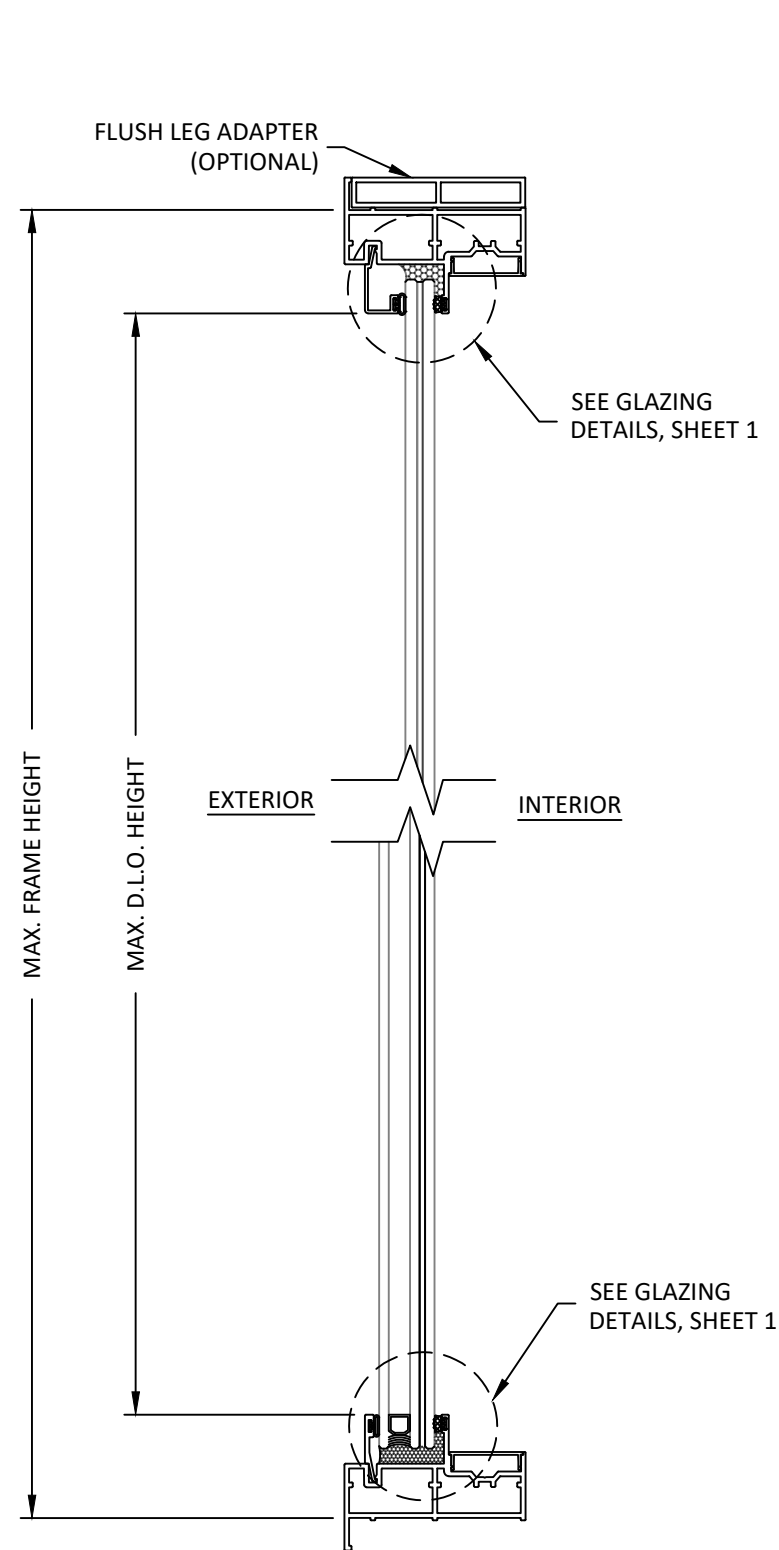
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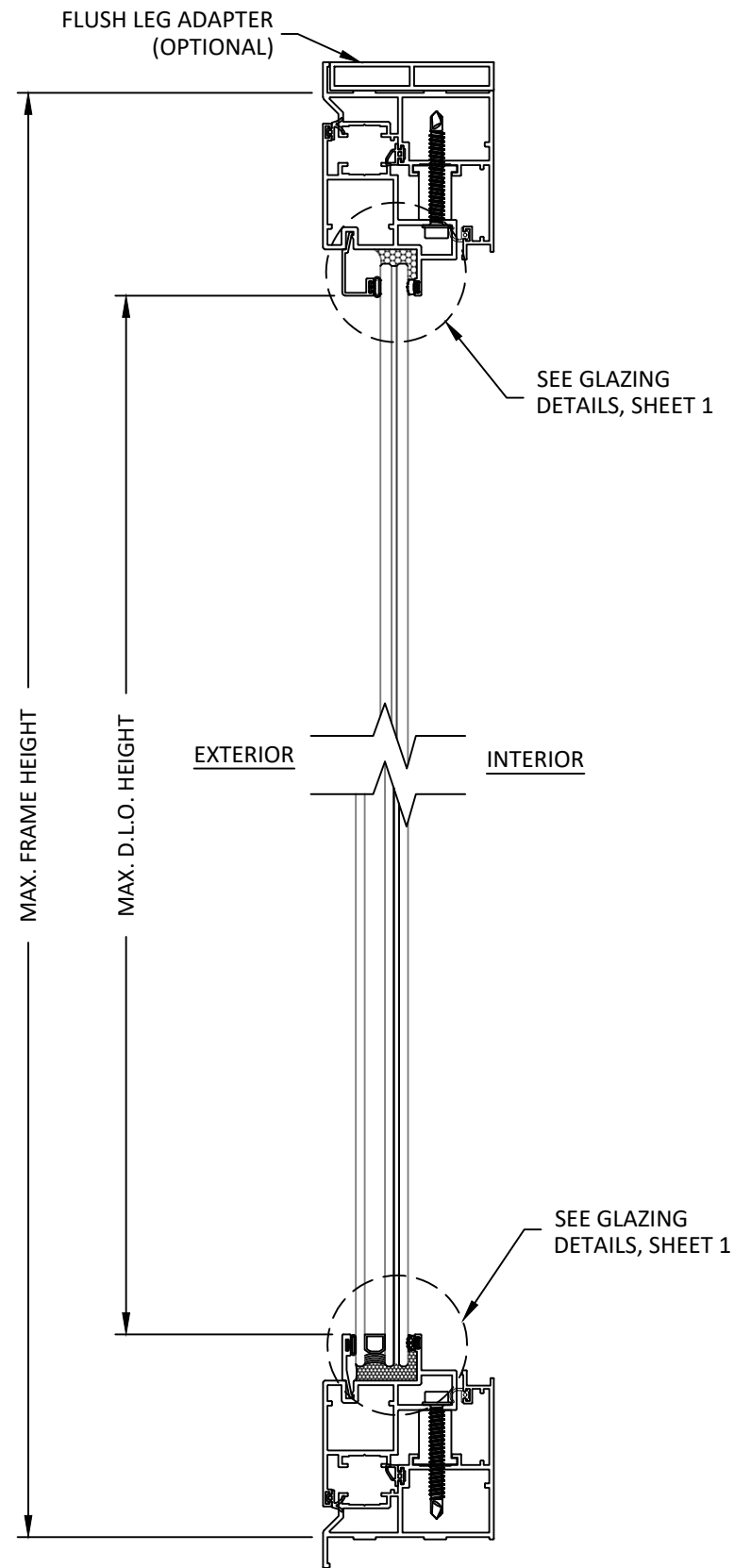
B

5

OF 10



A
6 VERTICAL SECTION
SINGLE & MULLED UNITS - FIXED WINDOW



B
6 VERTICAL SECTION
SINGLE & MULLED UNITS - FIXED WINDOW
ALTERNATE FRAME

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VERTICAL SECTIONS

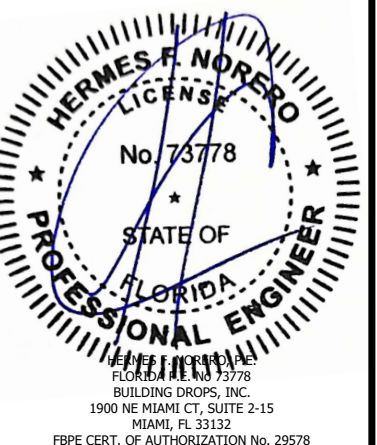
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6	OF 10

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HORIZONTAL SECTIONS

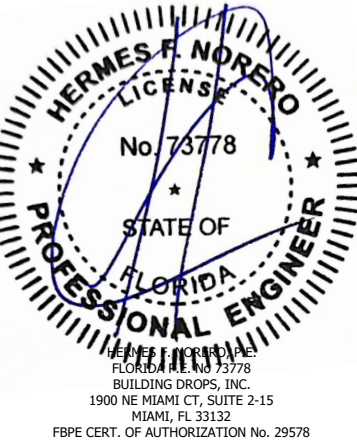
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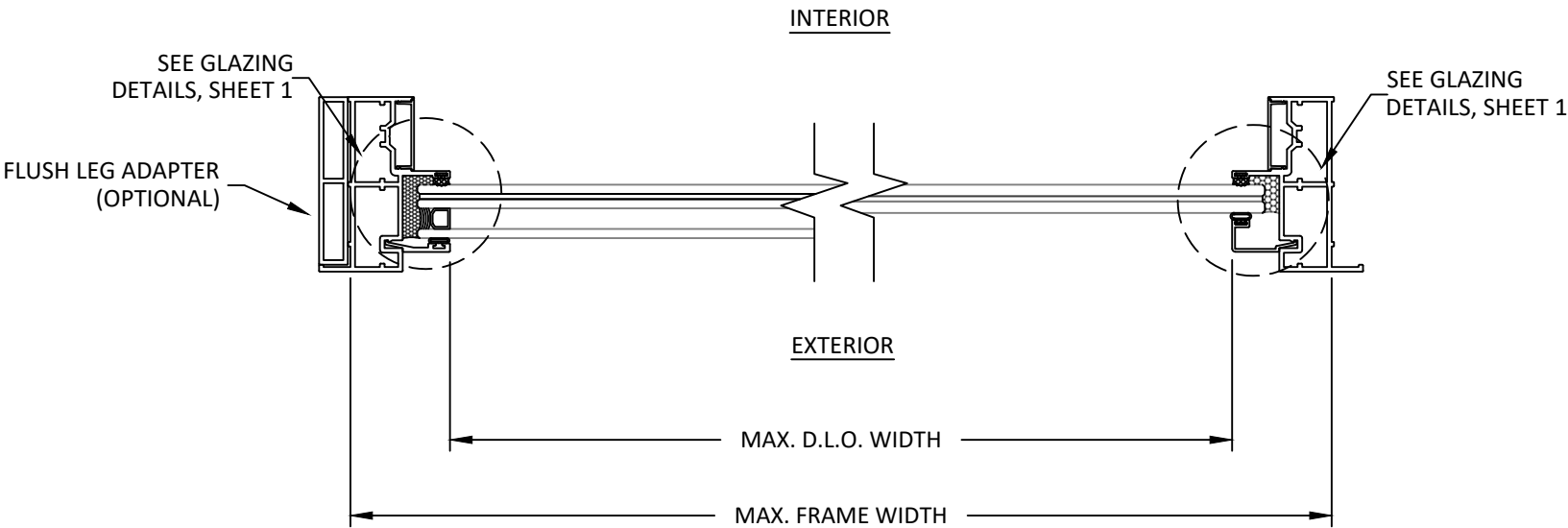
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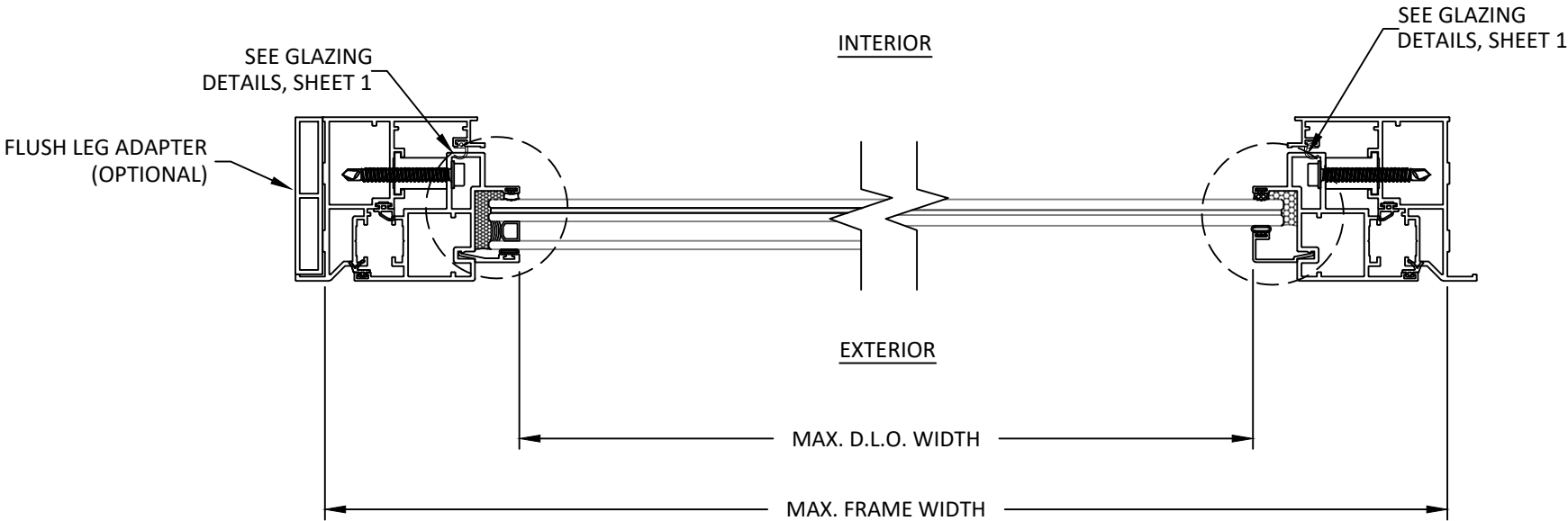
SHEET:	REV. B
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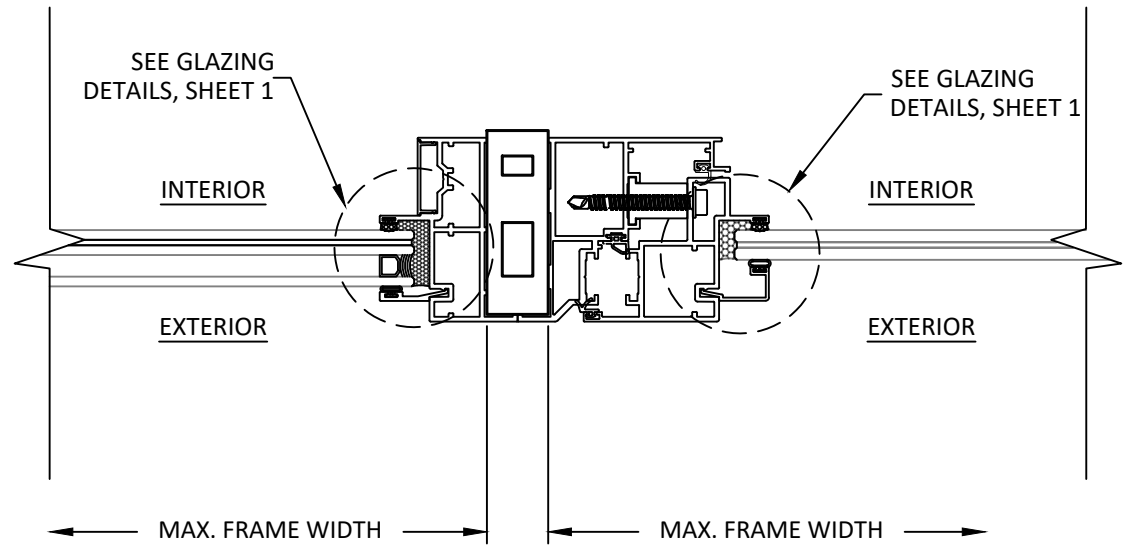
OF 10



C
7 HORIZONTAL SECTION
SINGLE - FIXED WINDOW



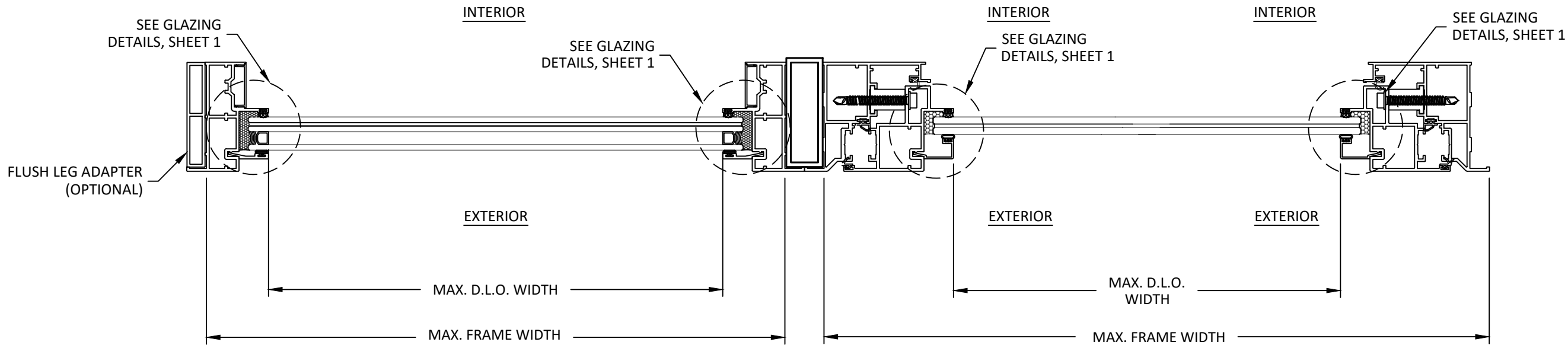
D
7 HORIZONTAL SECTION
SINGLE - FIXED WINDOW
ALTERNATE FRAME



E
8

HORIZONTAL SECTION

HEAVY MULLION - FIXED WINDOW
ALTERNATE FRAME SHOWN ON RIGHT



F
8

HORIZONTAL SECTION

LIGHT MULLION - FIXED WINDOW
ALTERNATE FRAME SHOWN ON RIGHT

DESIGNED by
LINEA ROSSA®

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TITLE: LR-420F ALUMINUM FIXED
CASEMENT WINDOW
(HVHZ)/(IMPACT)

HORIZONTAL SECTIONS

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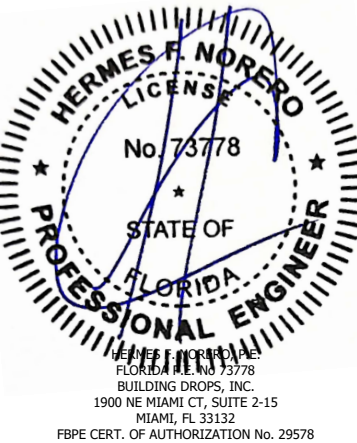
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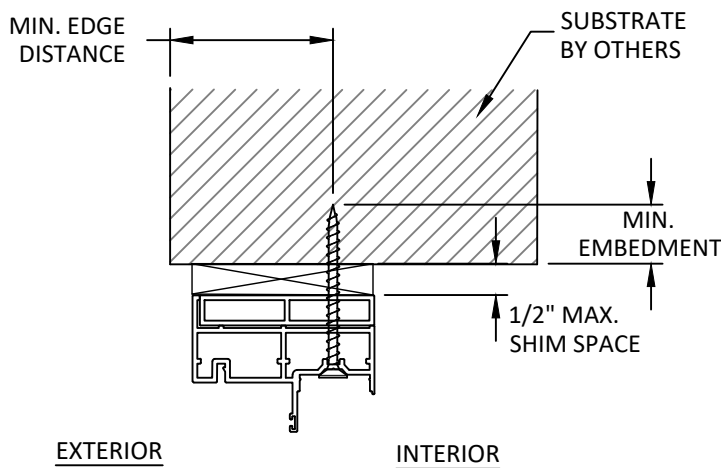
REMARKS	BY	DATE
REVISION A	FB	8/6/24
2026 FBC UPDATE	LS	06/26

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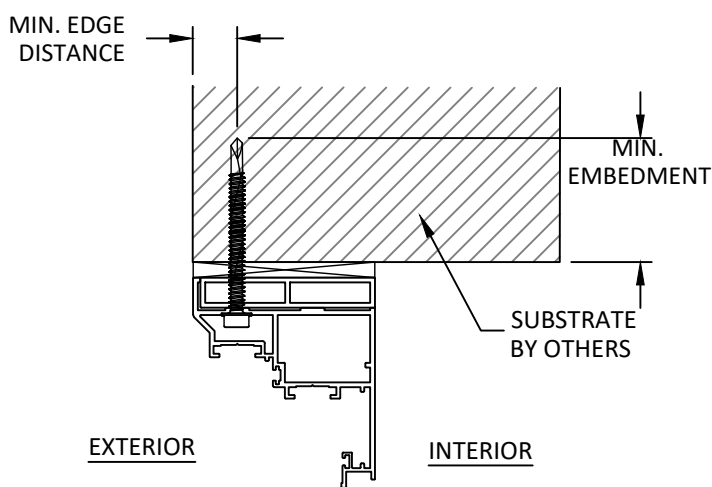


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DATE: 10.06.2023	
DWG. BY: SH	CHK. BY: HFN
SCALE: NTS	
DWG. #: LRA012	
SHEET:	REV. B
8 OF 10	



A
9 **ANCHOR DETAIL**
THROUGH FRAME (HEAD)



B
9 **ANCHOR DETAIL**
THROUGH FRAME (HEAD)
ALTERNATE FRAME SHOWN

NOTE: INSTALLATION SHOWN
SHOWS FRAME WITH FLUSH
LEG ADAPTER (OPTIONAL)

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 OF THE MAXIMUM SIZE LISTED.
- INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF $\pm 1/2$ INCH THE DEPICTED LOCATION & SPACING IN THE ANCHOR LAYOUT DETAILS (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 1/2" INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
- FOR MASONRY OR CONCRETE OPENINGS, 1X WOOD BUCK MAY BE USED (OPTIONAL AS LONG AS THE MINIMUM EMBEDMENT AND EDGE DISTANCE REQUIREMENTS ARE STILL MET WITHIN THE CORRESPONDING HOST SUBSTRATE. SEE GENERAL NOTE #3 ON SHEET 1 FOR MORE INFORMATION.
- 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:
 - FASTENERS USED WITHIN 3,000 FEET OF A SALTWATER COASTLINE AND INSTALLED IN ENCLOSED SPACES SHALL BE GALVANIZED IN ACCORDANCE WITH SECTION 1711.1.1 (E.G., ASTM A153 CLASS D, ASTM A641 CLASS 3S, OR EQUIVALENT CORROSION RESISTANCE).
 - CONNECTORS AND METAL PLATES USED WITHIN 3,000 FEET OF A SALTWATER COASTLINE SHALL BE STANDARD GALVANIZED IN ACCORDANCE WITH SECTION 1711.1.2 (E.G., ASTM A653 G90, ASTM A123, OR PROTECTIVE COATING PER TPI 1).
- 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.

ANCHOR SCHEDULE					
METHOD	SUBSTRATE TYPE	SUBSTRATE	ANCHOR TYPE	MIN. EMBEDMENT	MIN. EDGE DISTANCE
THROUGH FRAME	A	WOOD: MIN. SG = 0.55	1/4" DEWALT ULTRACON+	1.50"	1.00"
	B	METAL: 18 GAUGE STEEL, MIN. Fy = 33KSI ALUMINUM .125" MIN, 6063-T5 MIN	#14 SELF-DRILLING SCREW GR. 5	3 THREADS MIN. PENETRATION BEYOND METAL	0.75"
	C	CONCRETE: f'c=3000PSI	1/4" DEWALT ULTRACON+	1.75"	2.50"
	D	MASONRY: CMU per ASTM C90 MIN. 2000 PSI		1.75"	2.50"
MULLIONS	E	ALUMINUM 6063-T6	1 / 4" DEWALT DRILL-FLEX	3 THREADS MIN. PENETRATION BEYOND METAL	0.75"

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INSTALLATION NOTES & ANCHOR DETAILS

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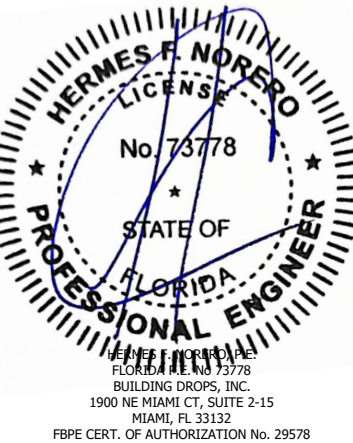
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CHK. BY:
HFN

SCALE: NTS

DWG. #: LRA012

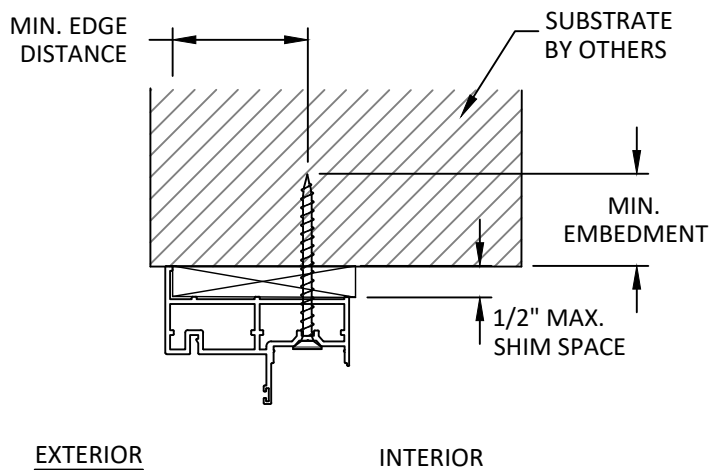
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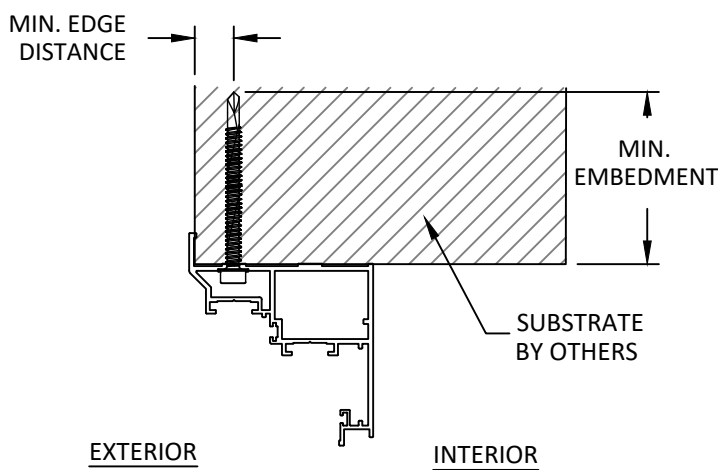
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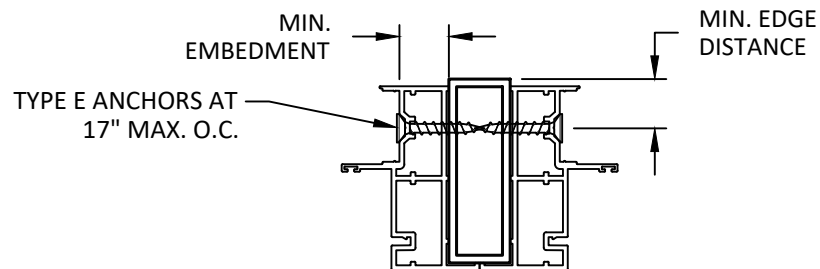
OF 10



A
10 ANCHOR DETAIL
THROUGH FRAME (HEAD)



B
10 ANCHOR DETAIL
THROUGH FRAME (HEAD)
ALTERNATE FRAME SHOWN



C
10 ANCHOR DETAIL
THROUGH FRAME (JAMB)
LIGHT MULLION SHOWN,
HEAVY MULLION SIMILAR

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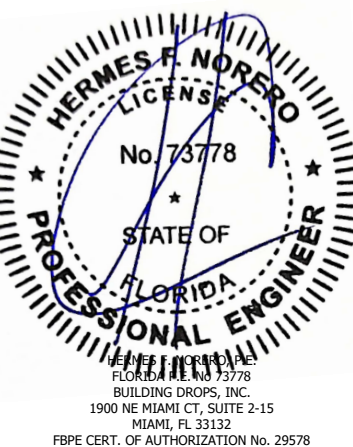
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