

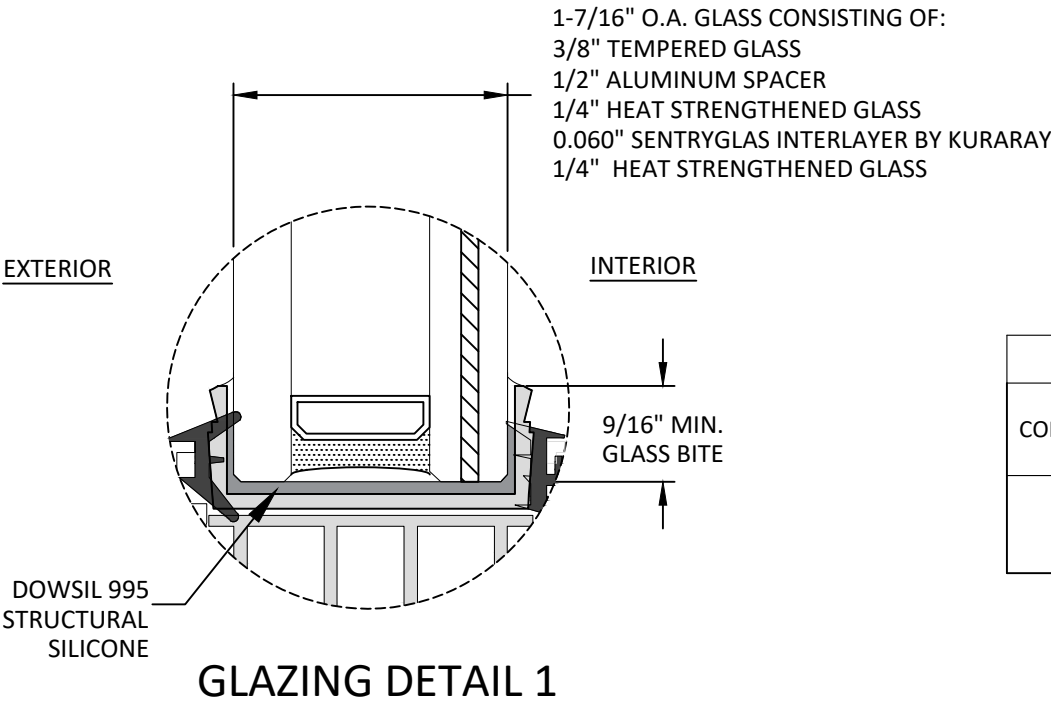
PanoramAH! AMERICA, LLC

MONORAIL FIXED WINDOW

(HVHZ)(IMPACT)

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT EDITION OF THE 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. 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.
5. 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.
6. APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
7. WINDOW FRAME MATERIAL: ALUMINUM 6063-T5
8. GLASS MEETS THE REQUIREMENTS OF ASTM E1300 GLASS CHARTS.



- GLAZING NOTES:
1. GLASS TYPE COMPLIES WITH ASTM E1300 REQUIREMENTS. PER THE FBC TEMPER AND SAFETY GLAZING REQUIREMENTS SHALL BE REVIEWED ON A SITE SPECIFIC BASIS.

2. SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN FBC CHAPTER 24.

3. SETTING BLOCKS TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36" AS PER FBC CHAPTER 24.

4. D.L.O. AND DESIGN PRESSURES MAY NOT EXCEED MAX VALUES SHOWN HEREIN.

5. GLAZING BEAD CAN BE PLACED ON INTERIOR OR EXTERIOR.

TABLE OF CONTENTS	
SHEET	SHEET DESCRIPTION
1	GENERAL NOTES & GLAZING DETAIL
2	ELEVATION & ANCHOR LAYOUT
3	DESIGN PRESSURE TABLES
4	VERTICAL SECTION
5	HORIZONTAL SECTION
6	INSTALLATION NOTES & ANCHOR DETAILS

DESIGN PRESSURE RATING (PSF)				
CONFIGURATION	WIDTH (IN.)	HEIGHT (IN.)	DESIGN PRESSURE	MISSILE IMPACT RATING
O	SEE TABLES ON SHEET 3			LARGE & SMALL MISSILE IMPACT



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TITLE: MONORAIL FIXED WINDOW (HVHZ)(IMPACT)

GENERAL NOTES & GLAZING DETAIL

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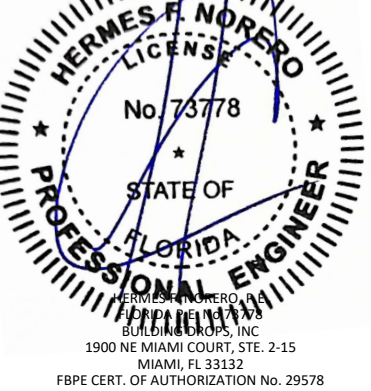
BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
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FAX: (954)744-4738
WEB: www.buildingdrops.com

B.D. BUILDING DROPS

REMARKS	BY	DATE
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Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2026.10.02 19:14:40 -07'00'



FL #:

FL46510

DATE: 03.16.2026

DWG. BY: HJ

CHK. BY: HFN

SCALE: NTS

DWG. #: PAN027

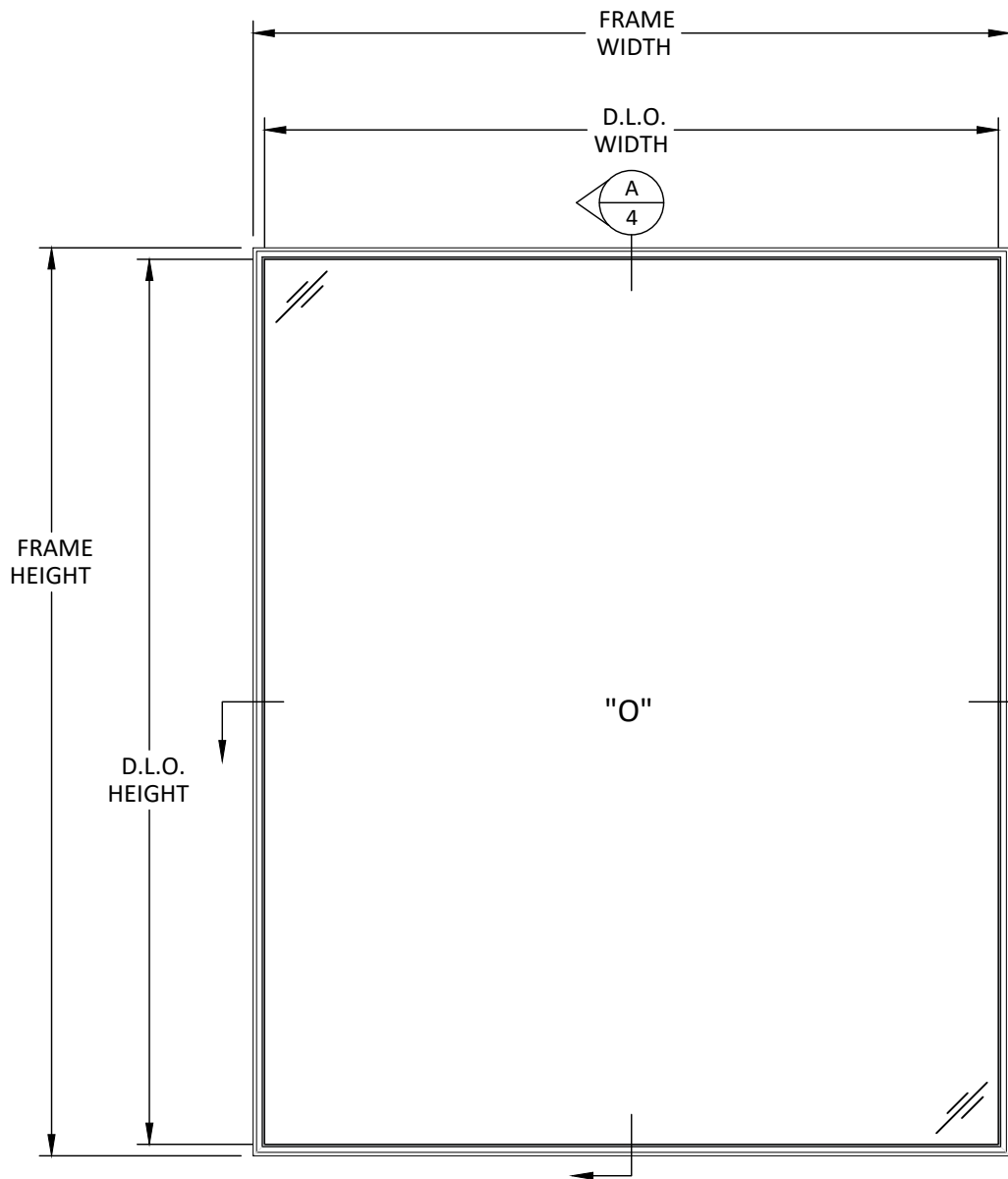
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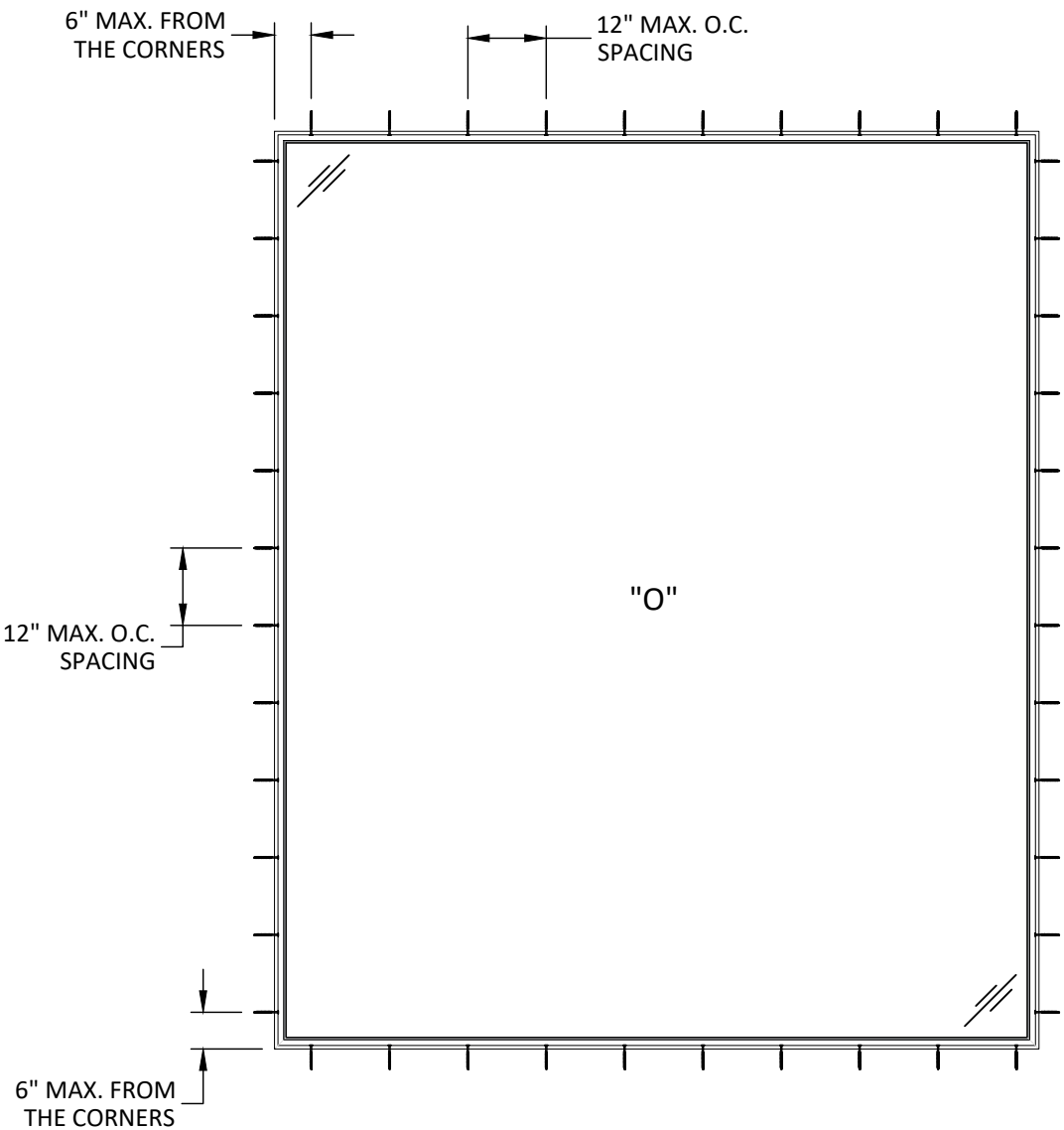
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ELEVATION
MONORAIL FIXED WINDOW

D.L.O. HEIGHT = FRAME HEIGHT - 3.75"
D.L.O. WIDTH = FRAME WIDTH - 3.75"



ANCHOR LAYOUT
THROUGH FRAME INSTALLATION



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ELEVATION & ANCHOR LAYOUT

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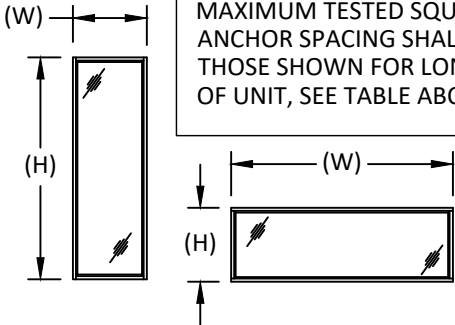
DESIGN PRESSURE TABLE (PSF)			
NOMINAL DIMS.		POS. (+)	NEG. (-)
FRAME WIDTH (IN.)	FRAME HEIGHT (IN.)		
42	84	75.0	75.0
48		75.0	75.0
54		75.0	75.0
60		75.0	75.0
66		75.0	75.0
72		75.0	75.0
78		60.0	60.0
84		60.0	60.0
42	90	75.0	75.0
48		75.0	75.0
54		75.0	75.0
60		75.0	75.0
66		75.0	75.0
72		75.0	75.0
78		60.0	60.0
84		60.0	60.0
90	96	60.0	60.0
42		75.0	75.0
48		75.0	75.0
54		75.0	75.0
60		75.0	75.0
66		75.0	75.0
72		60.0	60.0
78		60.0	60.0
84		60.0	60.0
90	102	60.0	60.0
42		75.0	75.0
48		75.0	75.0
54		75.0	75.0
60		75.0	75.0
66		60.0	60.0
72		60.0	60.0
78		60.0	60.0
84		60.0	60.0
90	108	60.0	60.0
42		75.0	75.0
48		75.0	75.0
54		75.0	75.0
60		60.0	60.0
66		60.0	60.0
72		60.0	60.0
78		60.0	60.0
84		60.0	60.0
90	114	60.0	60.0
42		75.0	75.0
48		75.0	75.0
54		75.0	75.0
60		60.0	60.0
66		60.0	60.0
72		60.0	60.0
78		60.0	60.0
84		60.0	60.0
90	120	60.0	60.0
42		75.0	75.0
48		75.0	75.0
54		75.0	75.0
60		60.0	60.0
66		60.0	60.0
72		60.0	60.0
78		60.0	60.0
84		60.0	60.0
90		60.0	60.0
96		60.0	60.0
102		60.0	60.0
108		60.0	60.0
114		60.0	60.0
120		60.0	60.0

DESIGN PRESSURE TABLE (PSF)			
NOMINAL DIMS.		POS. (+)	NEG. (-)
FRAME WIDTH (IN.)	FRAME HEIGHT (IN.)		
42	126	75.0	75.0
48		75.0	75.0
54		60.0	60.0
60		60.0	60.0
66		60.0	60.0
72		60.0	60.0
78		60.0	60.0
84		60.0	60.0
90	132	60.0	60.0
42		75.0	75.0
48		75.0	75.0
54		60.0	60.0
60		60.0	60.0
66		60.0	60.0
72		60.0	60.0
78		60.0	60.0
84		60.0	60.0
90	138	60.0	60.0
42		75.0	75.0
48		60.0	60.0
54		60.0	60.0
60		60.0	60.0
66		60.0	60.0
72		60.0	60.0
78		60.0	60.0
84	150	60.0	60.0
90		60.0	60.0
96		60.0	60.0
102		60.0	60.0
108		60.0	60.0
114		60.0	60.0
120		60.0	60.0
42	156	75.0	75.0
48		60.0	60.0
54		60.0	60.0
60		60.0	60.0
66		60.0	60.0
72		60.0	60.0
78		60.0	60.0
84		60.0	60.0
90		60.0	60.0
96		60.0	60.0
102		60.0	60.0
108		60.0	60.0
114		60.0	60.0
120		59.0	59.0

DESIGN PRESSURE TABLE (PSF)			
NOMINAL DIMS.		POS. (+)	NEG. (-)
FRAME WIDTH (IN.)	FRAME HEIGHT (IN.)		
42	162	60.0	60.0
48		60.0	60.0
54		60.0	60.0
60		60.0	60.0
66		60.0	60.0
72		60.0	60.0
78		60.0	60.0
84		60.0	60.0
90	168	60.0	60.0
42		60.0	60.0
48		60.0	60.0
54		60.0	60.0
60		60.0	60.0
66		60.0	60.0
72		60.0	60.0
78		60.0	60.0
84	174	60.0	60.0
90		60.0	60.0
96		60.0	60.0
102		60.0	60.0
42		60.0	60.0
48		60.0	60.0
54		60.0	60.0
60	180	60.0	60.0
66		60.0	60.0
72		60.0	60.0
78		60.0	60.0
84		60.0	60.0
90		60.0	60.0
96		60.0	60.0
102	186	60.0	60.0
42		60.0	60.0
48		60.0	60.0
54		60.0	60.0
60		60.0	60.0
66		60.0	60.0
72		60.0	60.0
78	192	60.0	60.0
84		60.0	60.0
90		60.0	60.0
96		60.0	60.0
42		60.0	60.0
48		60.0	60.0
54		60.0	60.0
60		60.0	60.0
66		60.0	60.0
72		60.0	60.0
78		60.0	60.0
84		60.0	60.0
90		60.0	60.0
96		60.0	60.0

DESIGN PRESSURE TABLE (PSF)			
NOMINAL DIMS.		POS. (+)	NEG. (-)
FRAME WIDTH (IN.)	FRAME HEIGHT (IN.)		
42	198	60.0	60.0
48		60.0	60.0
54		60.0	60.0
60		60.0	60.0
66		60.0	60.0
72		60.0	60.0
78		60.0	60.0
84	204	60.0	60.0
90		60.0	60.0
42		60.0	60.0
48		60.0	60.0
54		60.0	60.0
60		60.0	60.0
66		60.0	60.0
72	210	60.0	60.0
78		60.0	60.0
84		60.0	60.0
90		60.0	60.0
42		60.0	60.0
48		60.0	60.0
54		60.0	60.0
60	216	60.0	60.0
66		60.0	60.0
72		60.0	60.0
78		60.0	60.0
84		60.0	60.0
90		60.0	60.0
96		60.0	60.0
102	222	60.0	60.0
42		60.0	60.0
48		60.0	60.0
54		60.0	60.0
60		60.0	60.0
66		60.0	60.0
72		60.0	60.0
78	228	60.0	60.0
84		60.0	60.0
90		60.0	60.0
96		60.0	60.0
102		60.0	60.0
42		60.0	60.0
48		60.0	60.0
54	234	60.0	60.0
60		60.0	60.0
66		60.0	60.0
72		60.0	60.0
78		60.0	60.0
84		60.0	60.0
90		60.0	60.0
96		60.0	60.0

NOTE:
WINDOW WIDTH (W) AND HEIGHT (H) ARE INTERCHANGEABLE FOR ALL SIZES SHOWN HEREIN NOT TO EXCEED MAXIMUM TESTED SQUARE FOOT AREA. ANCHOR SPACING SHALL NOT EXCEED THOSE SHOWN FOR LONG OR SHORT LEG OF UNIT, SEE TABLE ABOVE.



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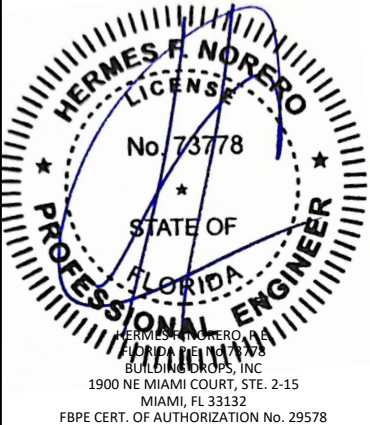
DESIGN PRESSURE TABLES

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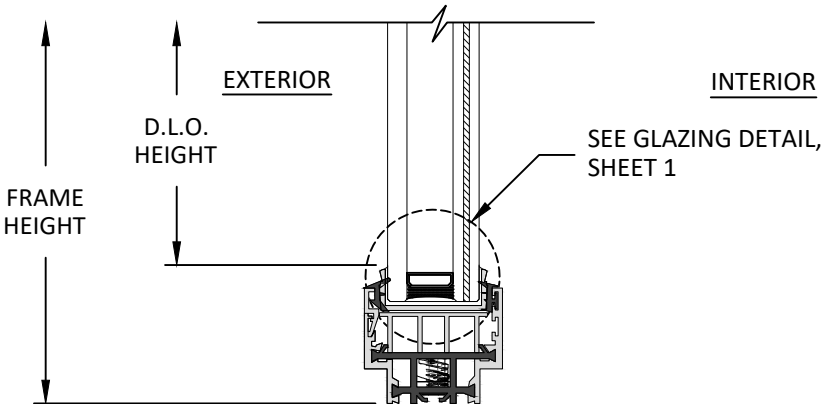
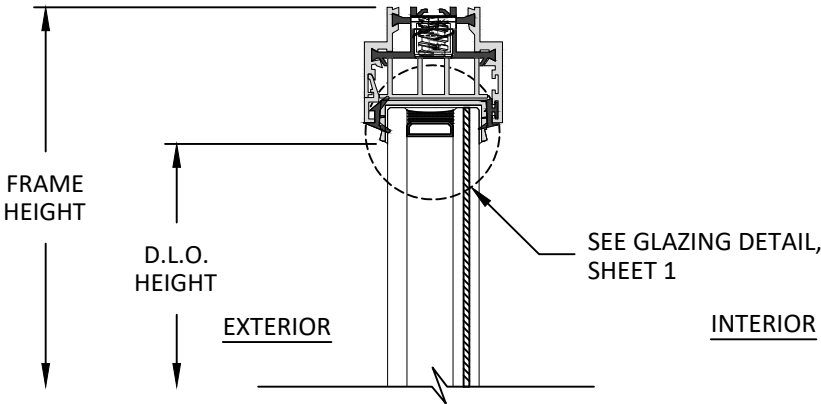
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FL #:	FL46510
DATE:	03.16.2026
DWG. BY:	HJ
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	PAN027
SECTION:	3
REV.	A

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A
4

VERTICAL SECTION
TYP. SECTION DETAIL

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VERTICAL SECTION

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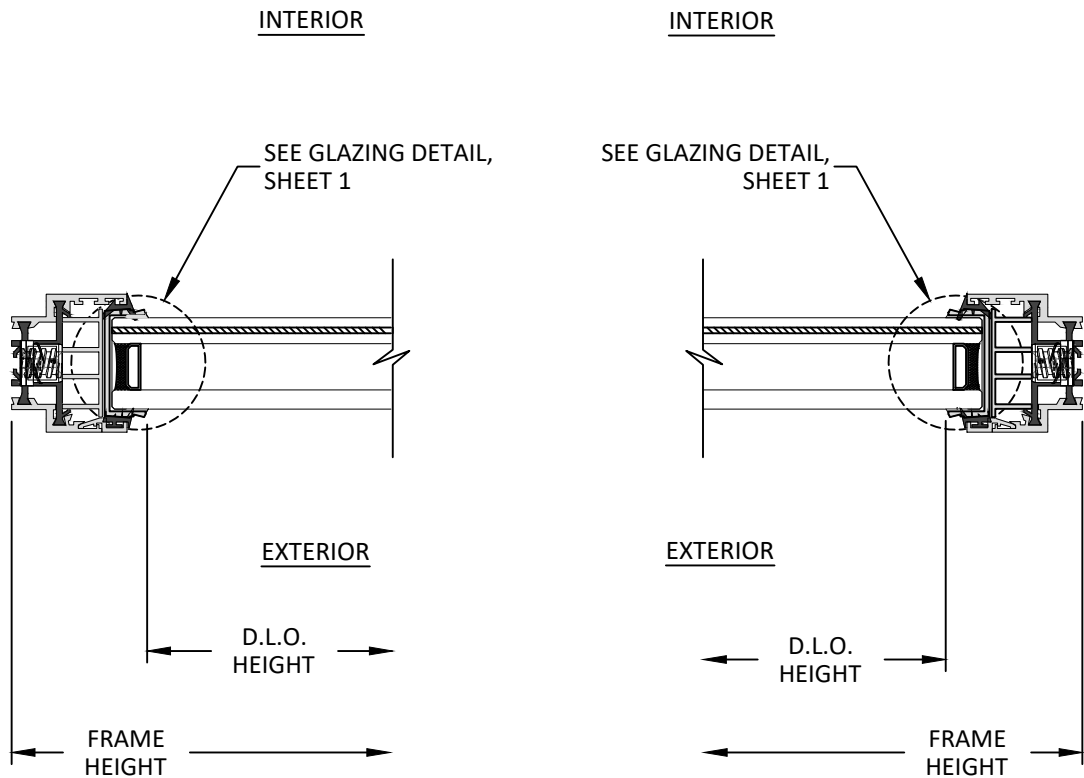
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A
5 **HORIZONTAL SECTION**
TYP. SECTION DETAIL



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HORIZONTAL SECTION

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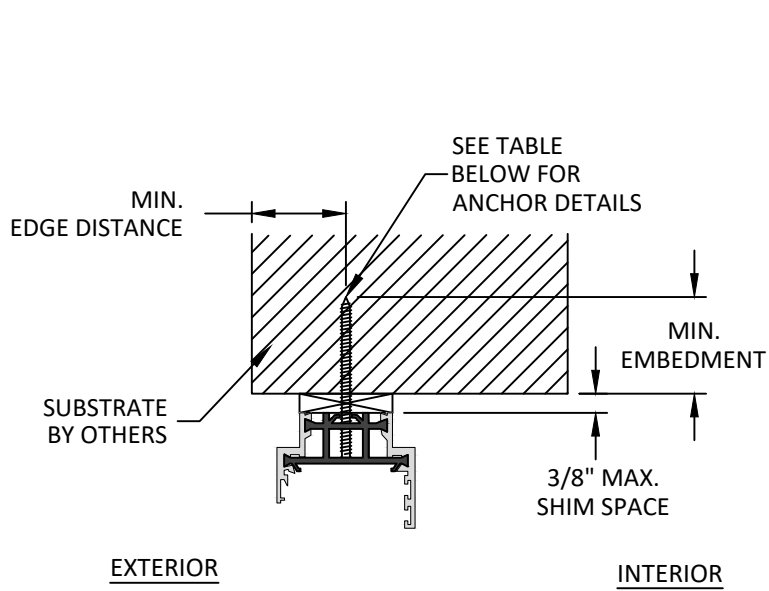
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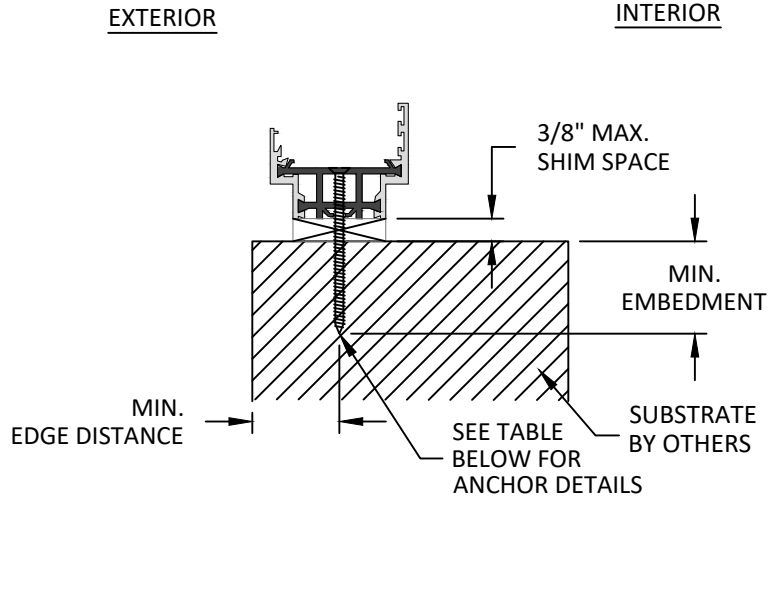


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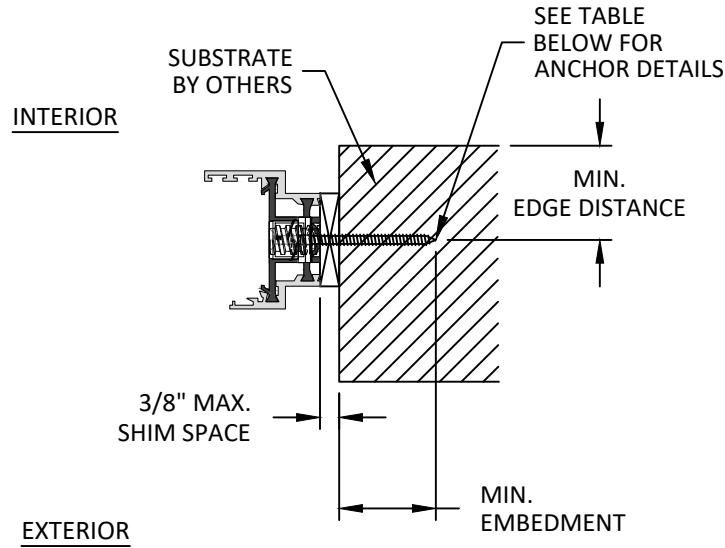
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A
6 VERTICAL SECTION
HEAD - THROUGH FRAME



B
6 VERTICAL SECTION
SILL - THROUGH FRAME



C
6 HORIZONTAL SECTION
JAMB - THROUGH FRAME

INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.
- 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 3/8 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
- 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 3000 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 3000 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 MASONRY OR CONCRETE OPENINGS, A 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.
- 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	ANCHOR TYPE	MIN. EMBEDMENT	MIN. EDGE DISTANCE
THROUGH FRAME INSTALLATION	WOOD: MIN. SG = 0.55	#14 WOOD SCREW	1.50"	0.75"
	METAL: 18 GAUGE STEEL, MIN. Fy = 33KSI ALUMINUM: 1/8" MIN., 6063-T5	1/4" SELF-DRILLING SCREW	3 THREADS MIN. PENETRATION BEYOND STRUCTURE	0.50"
	CONCRETE: f'c=3000PSI	1/4" ITW TAPCON	1.50"	2.50"
	MASONRY: CMU per ASTM C90 MIN. 2000 PSI	1/4" ITW TAPCON	1.00"	2.50"

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INSTALLATION NOTES
& ANCHOR DETAILS

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REMARKS	BY	DATE
2026 FBC UPDATE	DB	08/26

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.



FL #:	FL46510
DATE:	03.16.2026
DWG. BY:	CHK. BY:
HJ	HFN
SCALE:	NTS
DWG. #:	PAN027
SECTION:	REV.
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