

ARCADIA CUSTOM

TSX5000 & TSX5200 OUTSWING DOOR

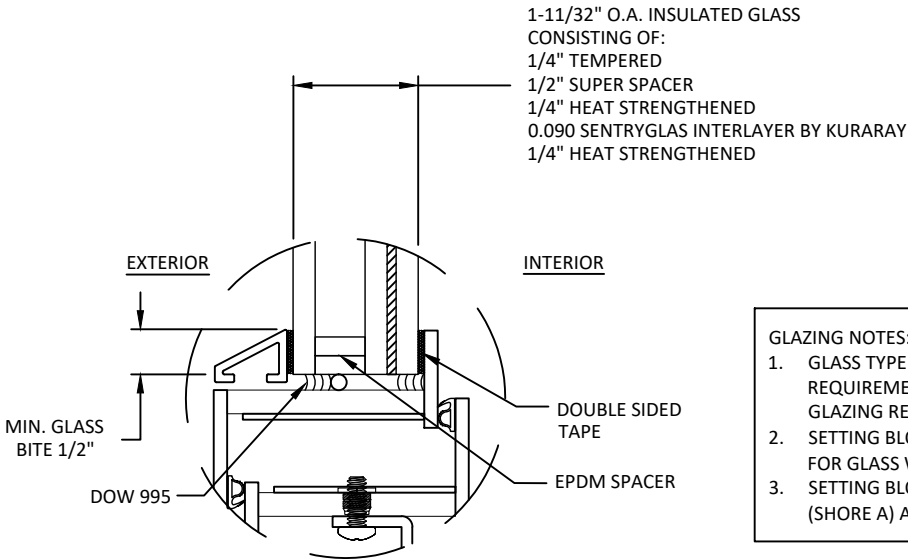
(IMPACT)(WZ3)

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:
 - AAMA/WDMA/CSA 101/I.S.2/A440-11
 - ASTM E1886-13a
 - ASTM E1996-14a
- 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.
- 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 IN NON-HVHZ AREAS.
- APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** ON THIS PRODUCT IN WIND ZONES 3 OR LESS.
- APPROVED IMPACT PROTECTIVE SYSTEM **IS REQUIRED** ON THIS PRODUCT IN WIND ZONES 4.
- FRAME MATERIAL: STAINLESS STEEL
- GLASS MEETS THE REQUIREMENTS OF ASTM E1300 GLASS CHARTS. SEE SHEET 1 FOR GLAZING DETAIL.

MAX OVERALL SIZE	DESIGN PRESSURE	MISSILE IMPACT RATING
SEE PRESSURE TABLE ON PAGE 2-3	SEE PRESSURE TABLE ON PAGE 2-3	LMI/SMI

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- GLAZING NOTES:
- GLASS TYPE COMPLIES WITH ASTM E1300 REQUIREMENTS AS WELL AS APPLICABLE SAFETY GLAZING REQUIREMENTS PER THE FBC.
 - SETTING BLOCKS TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36" AS PER FBC CHAPTER 24.
 - SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN FBC CHAPTER 24.



ARCADIA CUSTOM
9280 E OLD VAIL RD,
TUCSON, AZ 85747

PH: (520) 284-2061 FX: (520) 349-1964

TITLE: TSX5000 & TSX5200
OUTSWING STEEL DOOR
(IMPACT) (WZ3)
GENERAL NOTES & GLAZING DETAIL

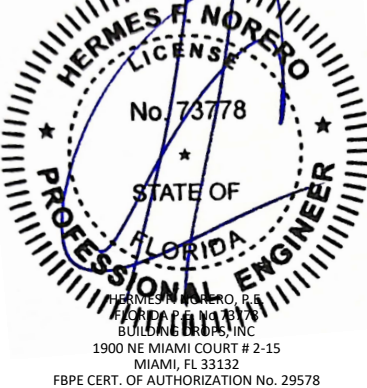
PREPARED BY:
BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
ANCHOR UPDATES	MG	06/23
SECTION UPDATES	DI	08/25

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Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2025.08.15 15:00:25 -0400'



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FL32366

DATE: 05/05/2020

DWG. BY: YC
CHK. BY: HFN

SCALE: NTS

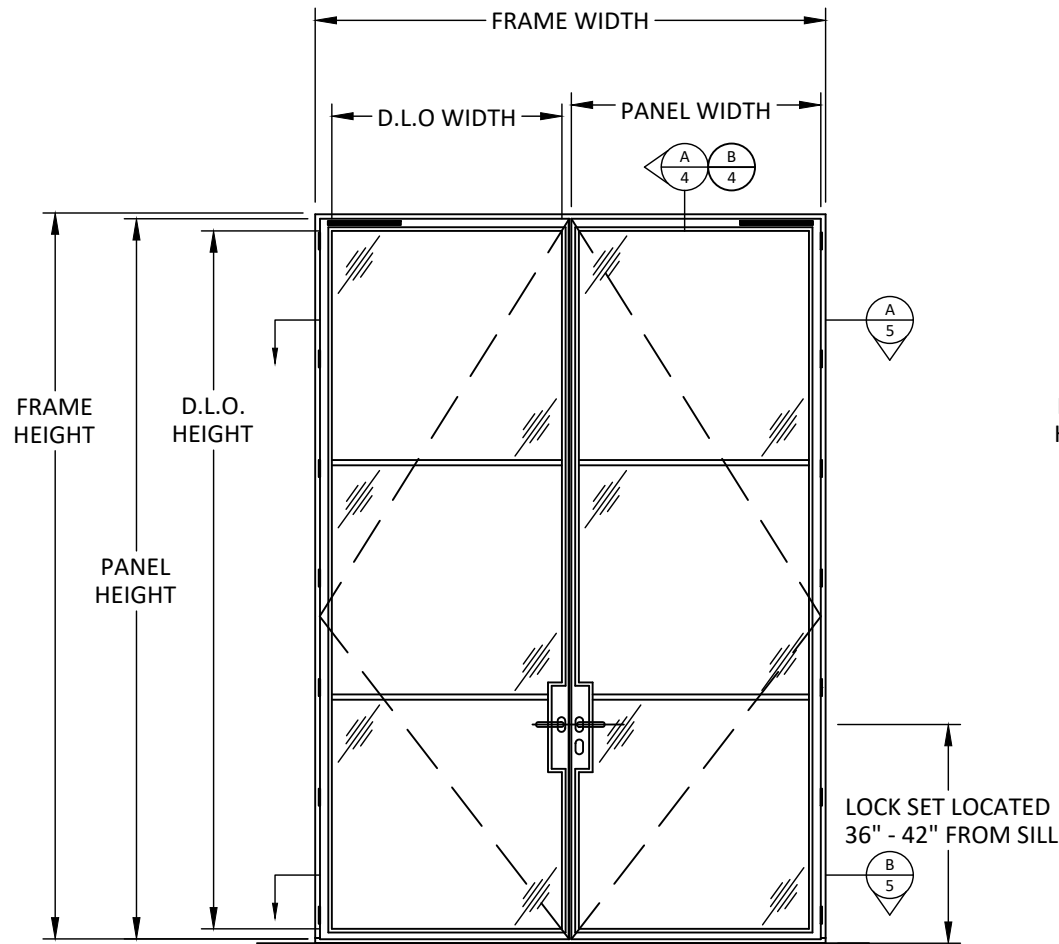
DWG. #: ACWD005

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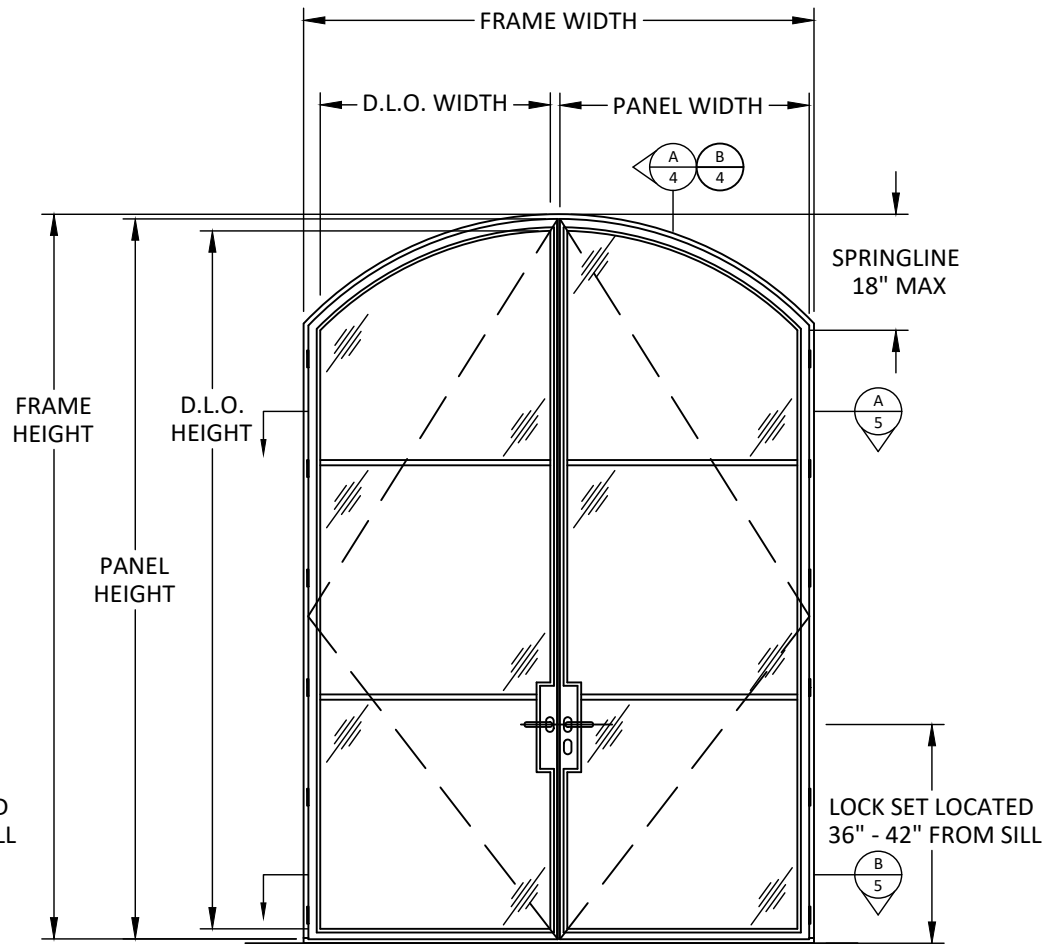
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ELEVATION

OUTSWING STEEL DOOR
EXTERIOR VIEW



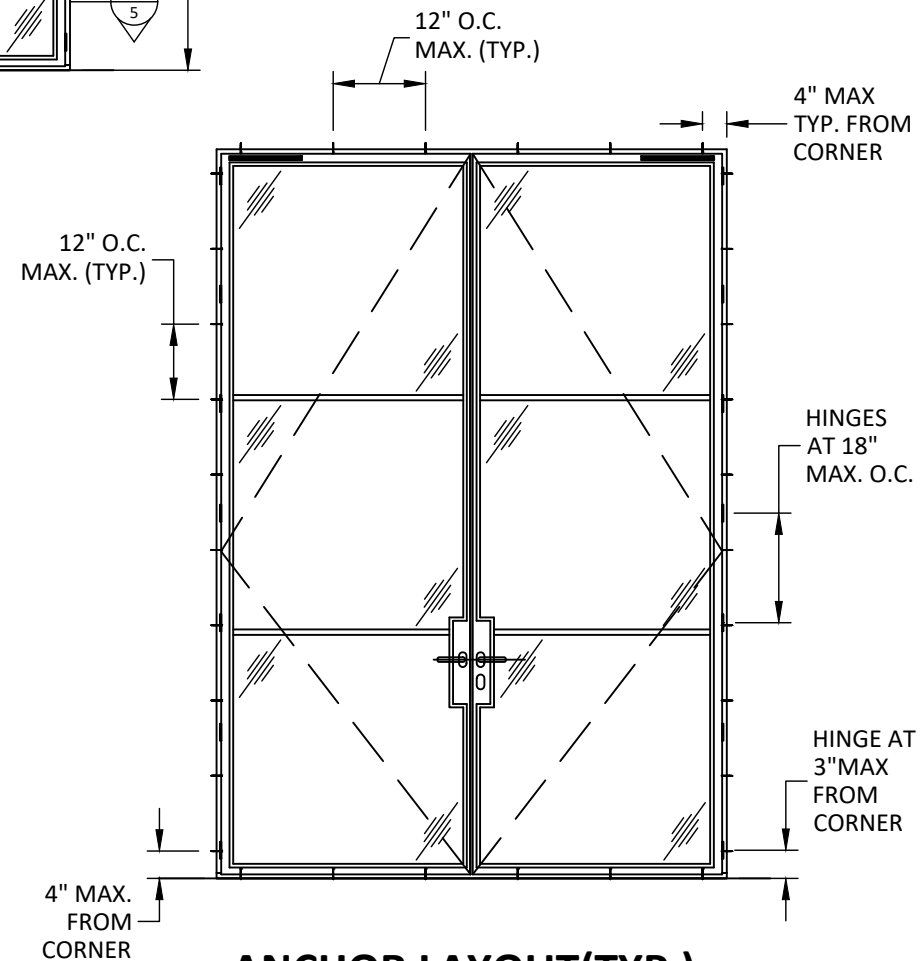
ELEVATION

FLAT TOP ARCH
OUTSWING STEEL DOOR
EXTERIOR VIEW

NOTE:

D.L.O. HEIGHT = FRAME HEIGHT - 4.50"
D.L.O. WIDTH = FRAME WIDTH/2 - 4.50"

DESIGN PRESSURE TABLE (PSF) - SINGLE CONFIGURATION								
FRAME HEIGHT (INCHES)	FRAME WIDTH (INCHES)							
		36	38	40	42	44	46	48
	80	52.5	49.7	47.3	45.0	43.0	41.1	39.4
	84	52.5	49.7	47.3	45.0	43.0	41.1	39.4
	88	52.5	49.7	47.3	45.0	43.0	41.1	39.4
	92	52.5	49.7	47.3	45.0	43.0	41.1	39.4
	96	52.5	49.7	47.3	45.0	43.0	41.1	39.4
	100	52.5	49.7	47.3	45.0	43.0	41.1	39.4
	104	52.3	49.7	47.3	45.0	43.0	41.1	39.4
	108	51.9	49.7	47.3	45.0	43.0	41.1	
	112	51.6	49.4	47.3	45.0	43.0		
	116	51.2	49.0	47.1	45.0			
	119.5	50.9	48.7	46.8	45.0			
	124	50.6	48.4	46.4				



ANCHOR LAYOUT(TYP.)

CLIP/THROUGH FRAME



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(IMPACT) (WZ3)

ELEVATION & ANCHOR LAYOUT

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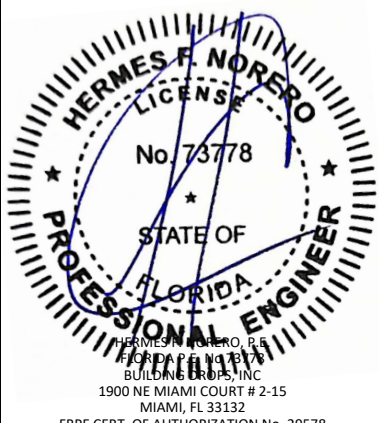
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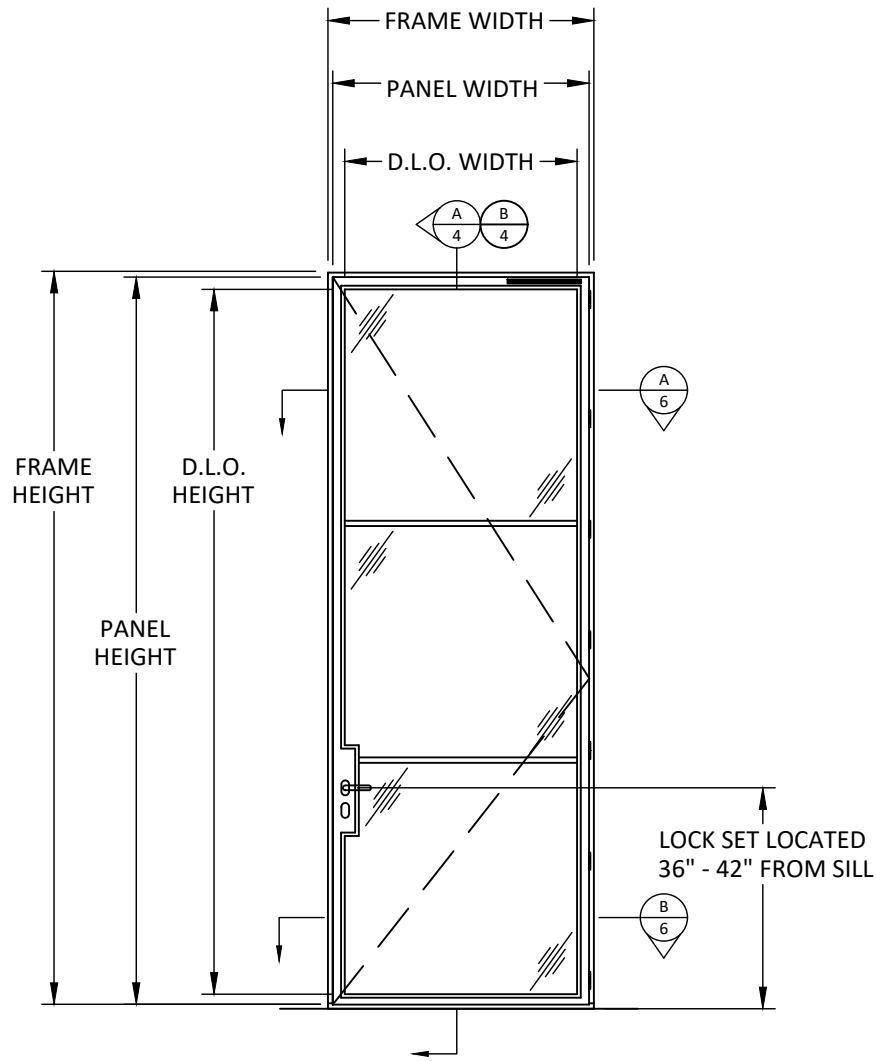
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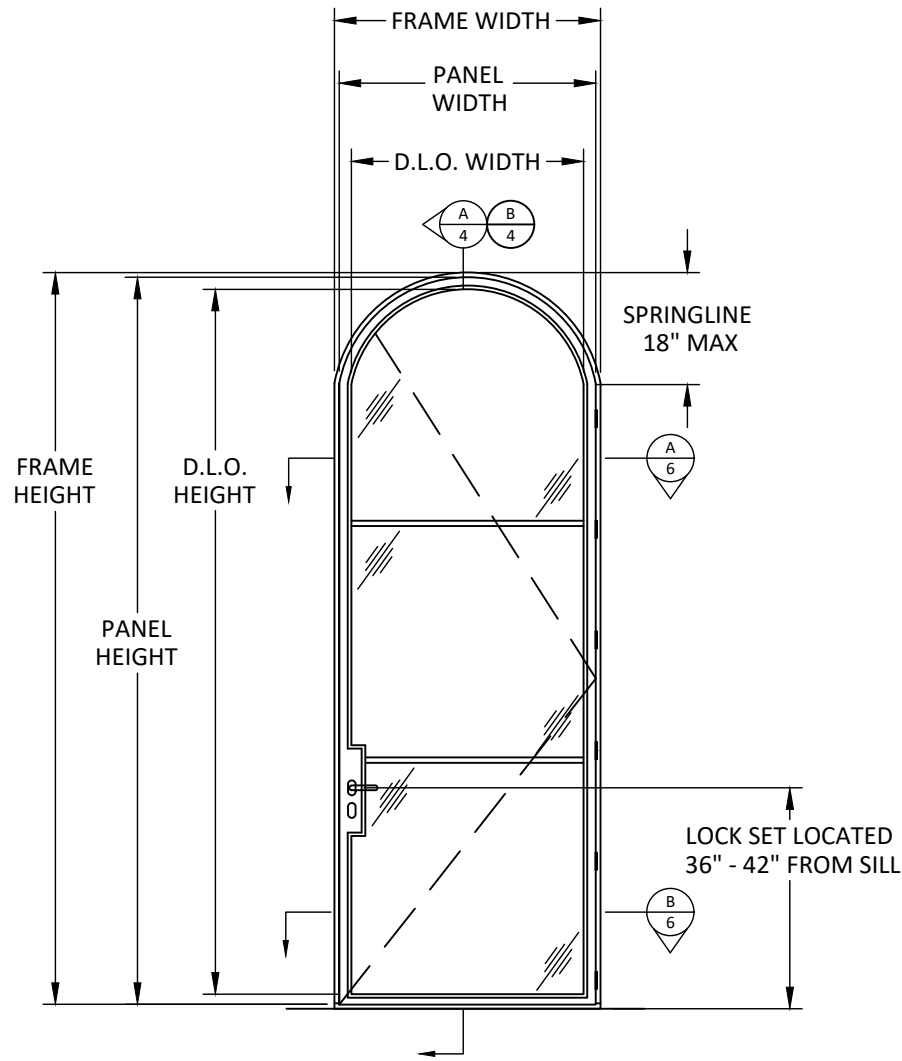
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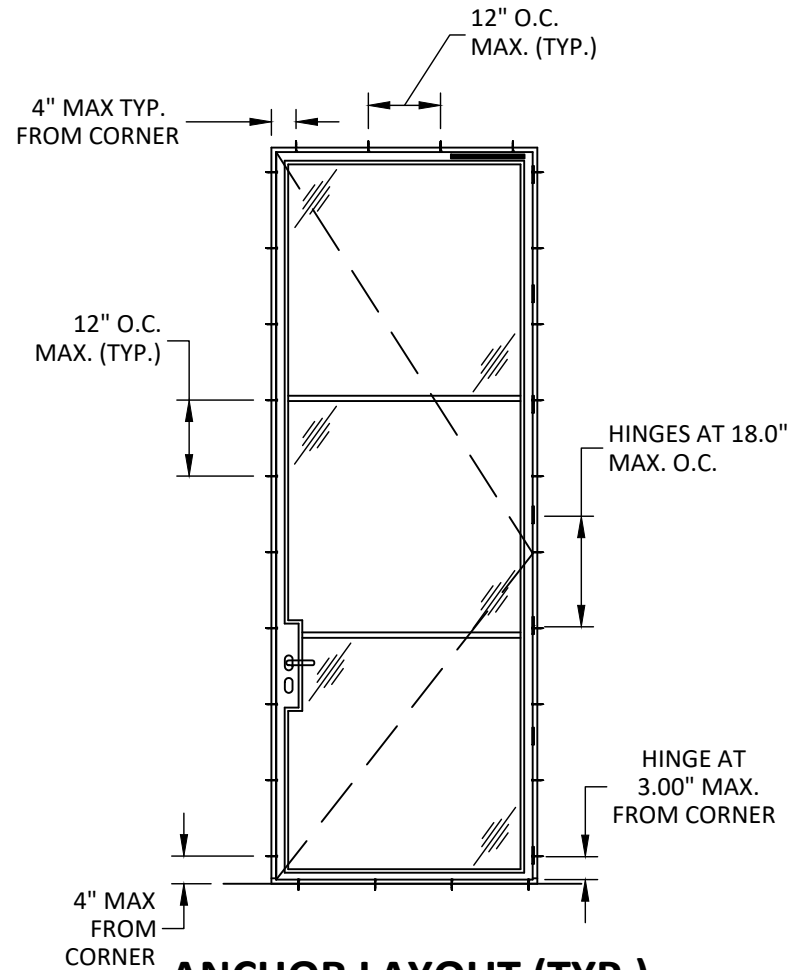
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ELEVATION
OUTSWING STEEL DOOR
EXTERIOR VIEW



ELEVATION
FLAT TOP ARCH
OUTSWING STEEL DOOR
EXTERIOR VIEW



ANCHOR LAYOUT (TYP.)
CLIP/THROUGH FRAME

NOTE:

D.L.O. HEIGHT = FRAME HEIGHT - 4.50"
D.L.O. WIDTH = FRAME WIDTH - 4.50"

DESIGN PRESSURE TABLE (PSF) - DOUBLE CONFIGURATION								
FRAME WIDTH (INCHES)								
FRAME HEIGHT (INCHES)		72	76	80	84	88	92	96
	80	52.5	49.7	47.3	45.0	43.0	41.1	39.4
	84	52.5	49.7	47.3	45.0	43.0	41.1	39.4
	88	52.5	49.7	47.3	45.0	43.0	41.1	39.4
	92	52.5	49.7	47.3	45.0	43.0	41.1	39.4
	96	52.5	49.7	47.3	45.0	43.0	41.1	39.4
	100	52.5	49.7	47.3	45.0	43.0	41.1	39.4
	104	52.3	49.7	47.3	45.0	43.0	41.1	39.4
	108	51.9	49.7	47.3	45.0	43.0	41.1	
	112	51.6	49.4	47.3	45.0	43.0		
	116	51.2	49.0	47.1	45.0			
	119.5	50.9	48.7	46.8	45.0			
	124	47.0	44.5	42.3				
	128	42.7	40.5					
	132	39.0	36.9					
	136	35.6						



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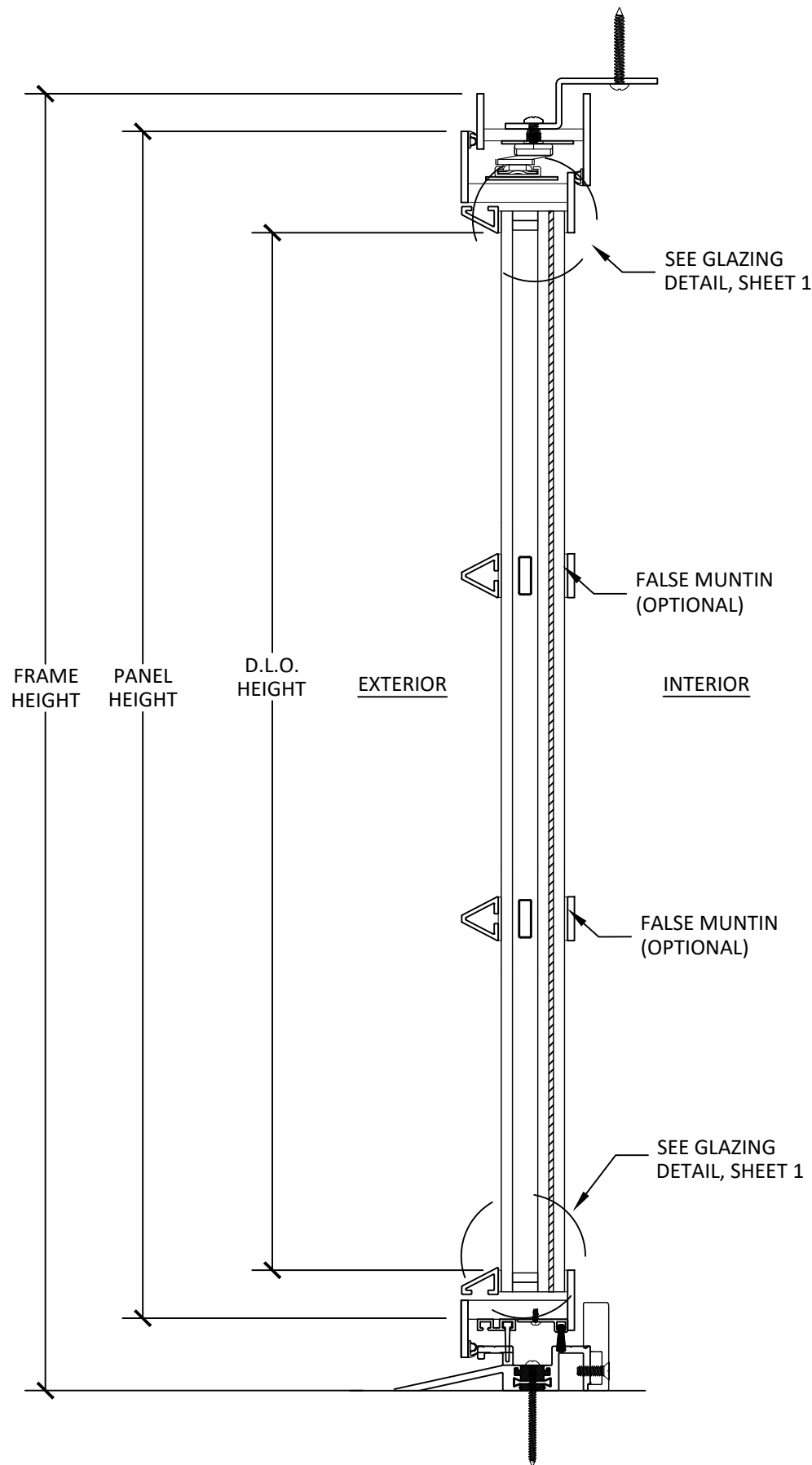
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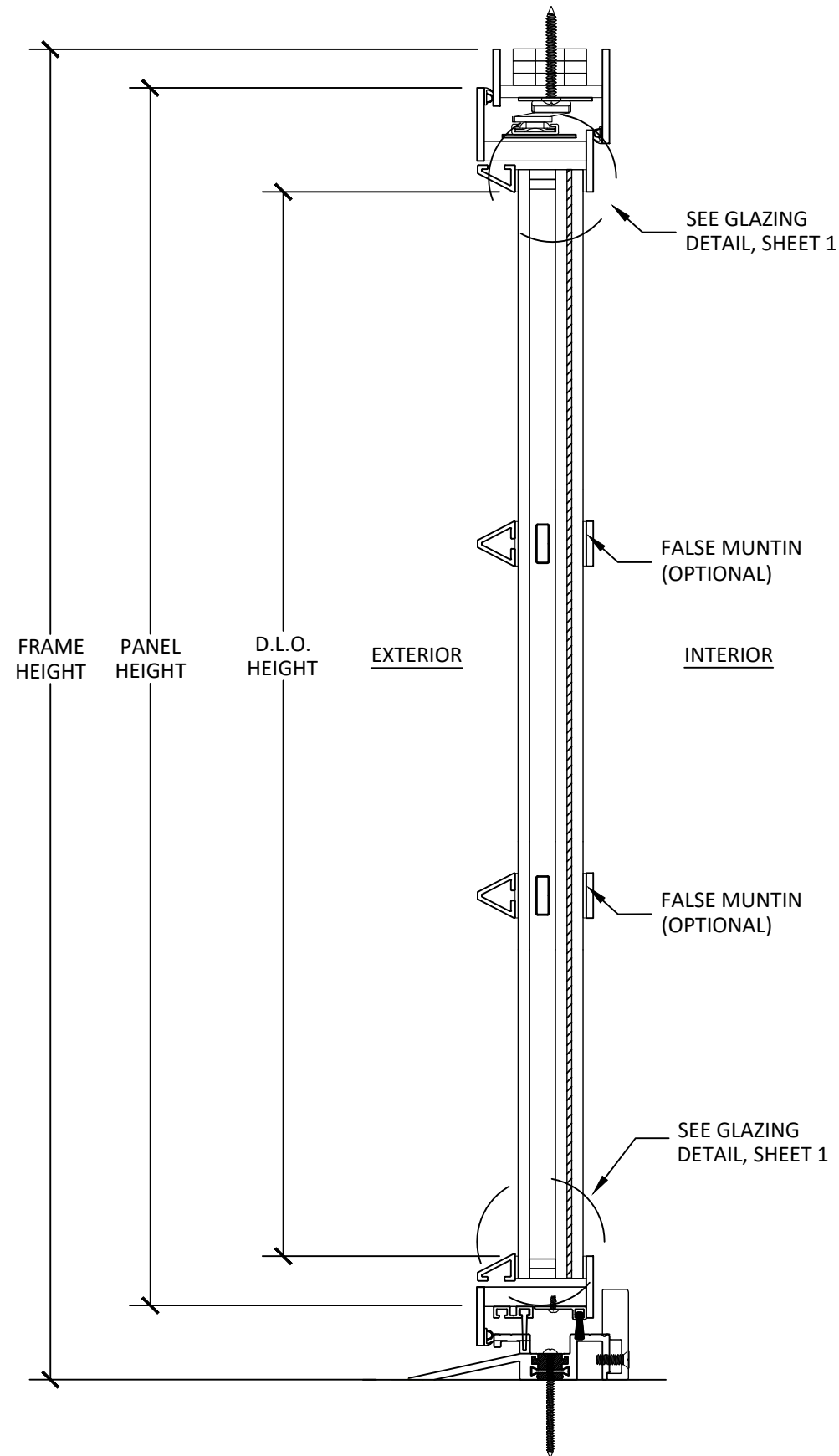
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A
4

VERTICAL SECTION
OUTSWING DOOR - STEEL CLIP AT HEAD



B
4

VERTICAL SECTION
OUTSWING DOOR - THROUGH FRAME AT HEAD



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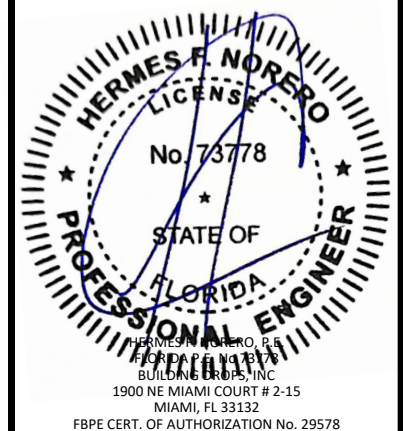
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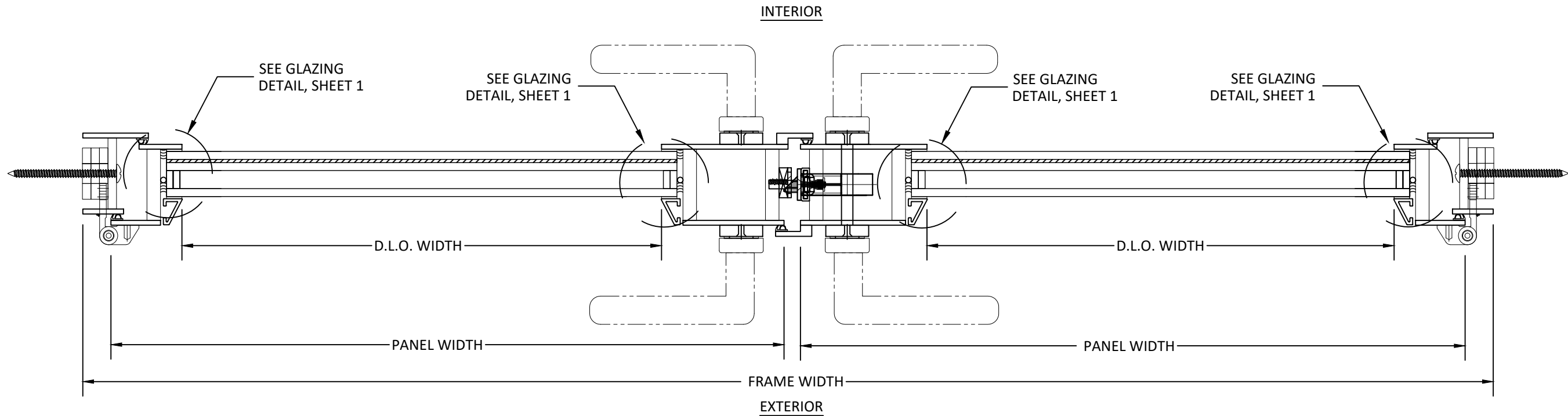
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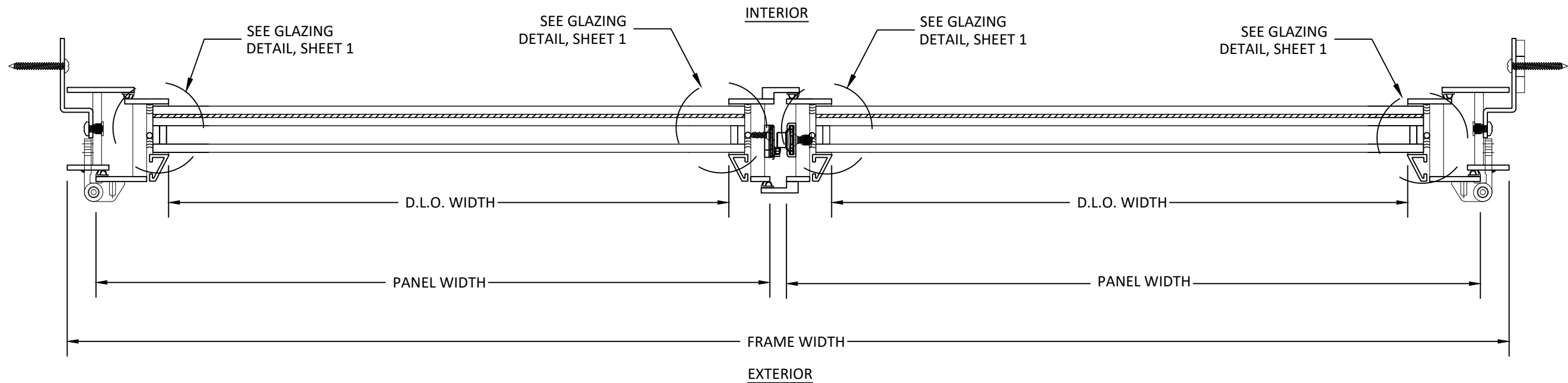


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A
5 **HORIZONTAL SECTION**
OUTSWING STEEL DOOR- THROUGH FRAME



B
5 **HORIZONTAL SECTION**
OUTSWING STEEL DOOR - CLIP INSTALLATION



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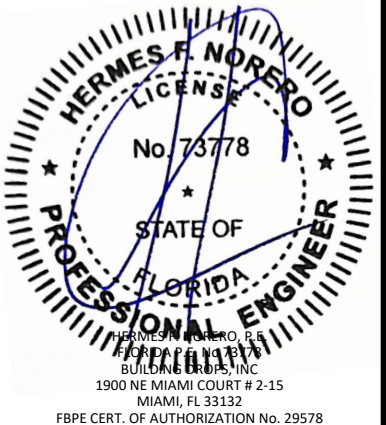
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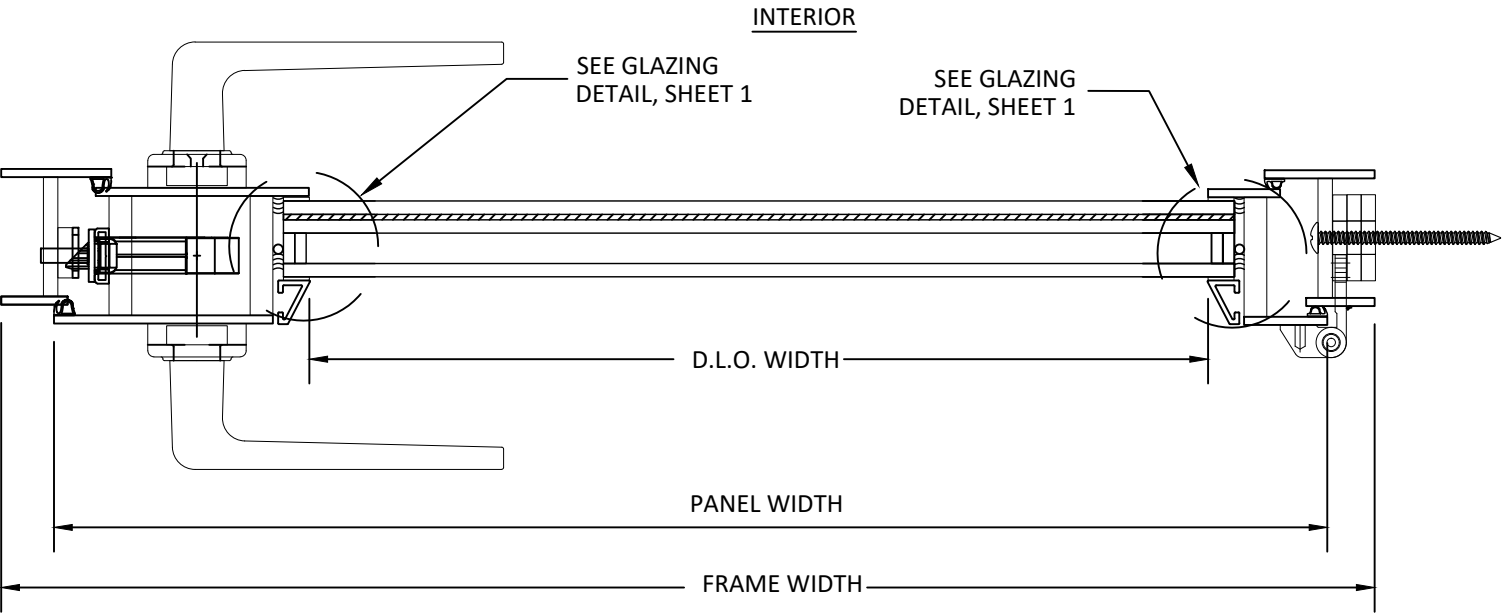
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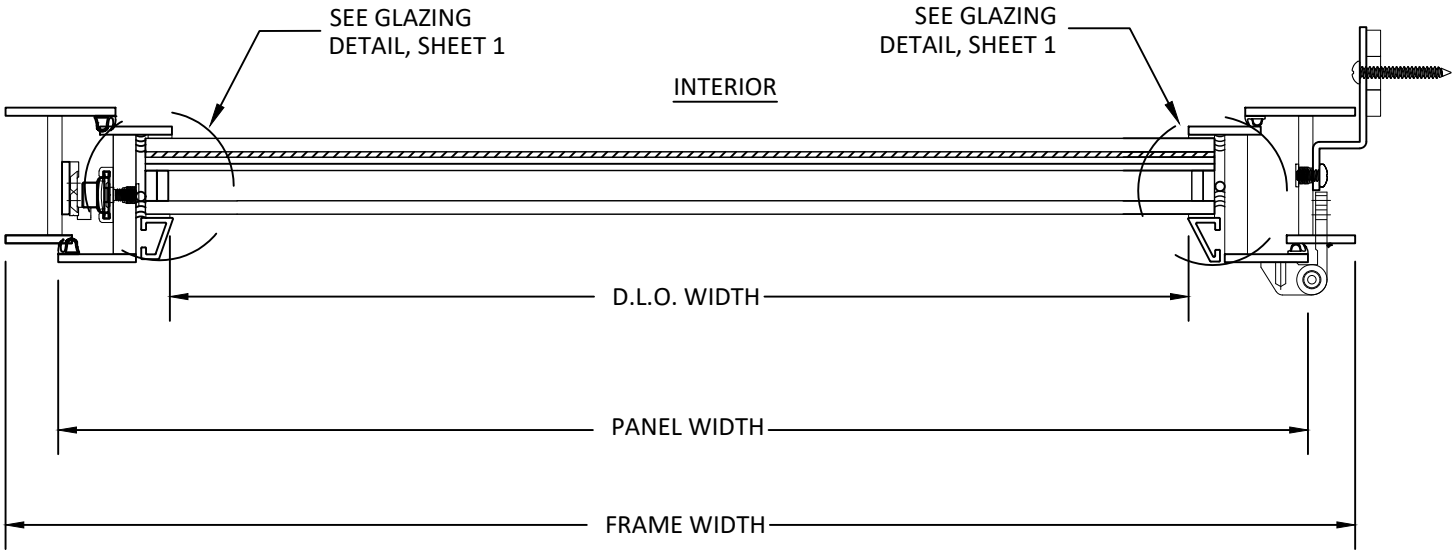
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A
6

HORIZONTAL SECTION
OUTSWING STEEL DOOR- THROUGH FRAME



B
6

HORIZONTAL SECTION
OUTSWING STEEL DOOR - CLIP INSTALLATION



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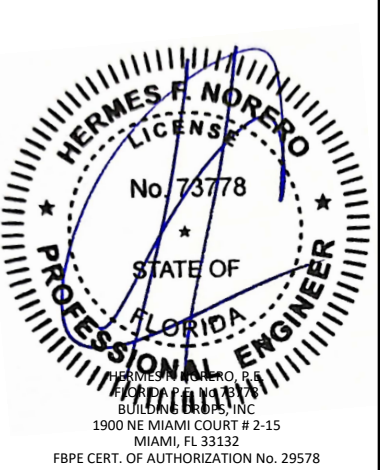
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HORIZONTAL SECTIONS

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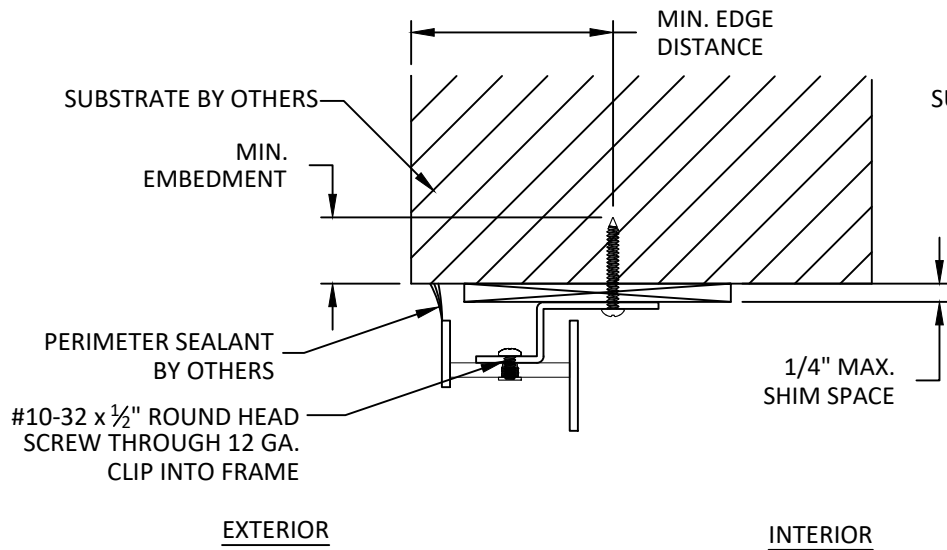
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SCALE: **NTS**

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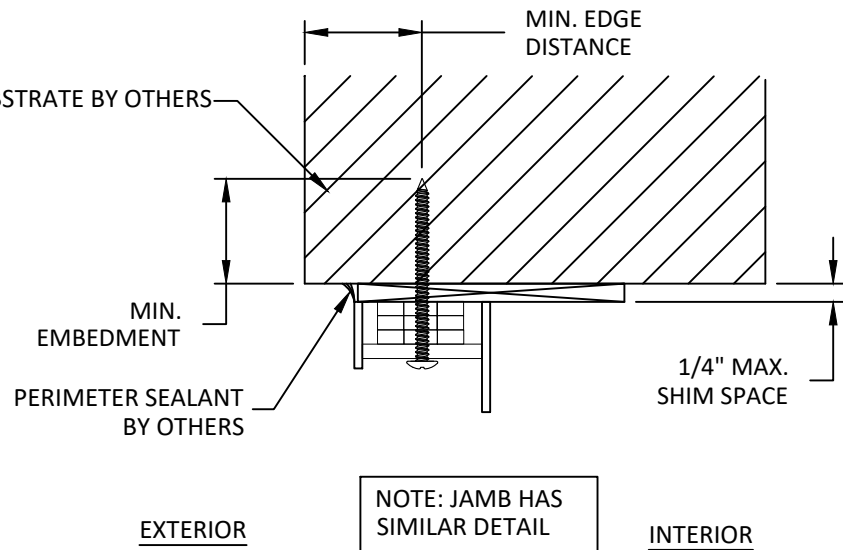
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A
7

ANCHOR DETAIL

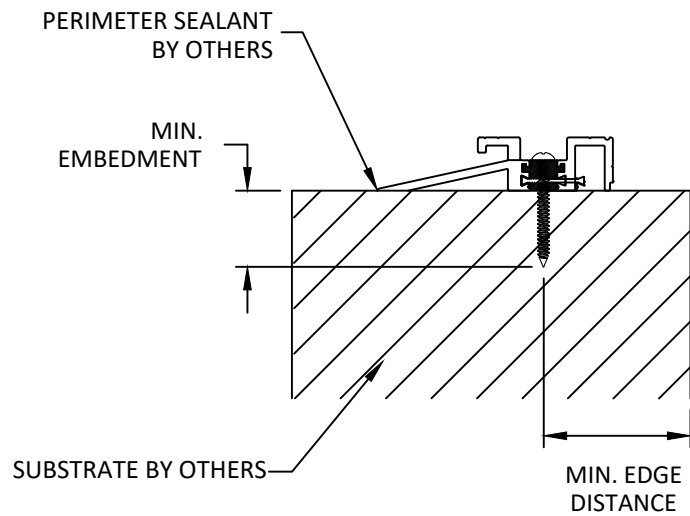
CLIP (AT HEAD AND JAMB)



B
7

ANCHOR DETAIL

THROUGH FRAME (AT HEAD AND JAMB)



C
7

ANCHOR DETAIL

THROUGH FRAME (SILL)

INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN ON SHEET 2 AND 3 UNLESS OTHERWISE 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 1/4 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.
- 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 SCHEDULE	MIN EMBEDMENT	MIN. EDGE DISTANCE	QUANTITY PER LOCATION
THROUGH FRAME	WOOD: MIN. SG = 0.55	#10 WOOD SCREW	1.5"	0.75"	1
	METAL: 18 GAUGE STEEL, MIN. Fy = 33KSI	#8 TEK SCREW	3 THREADS MIN PENETRATION BEYOND METAL	0.50"	1
	METAL: ALUMINUM MIN. 6063-T5 1/8" WALL THICKNESS	#12 TEK SCREW	3 THREADS MIN PENETRATION BEYOND METAL	0.50"	1
	CONCRETE: MIN. f'c = 3000 PSI	1/4" ITW TAPCON FLATHEAD	1.25"	2.0"	1
	MASONRY: CMU MIN. 2000 PSI	1/4" ITW TAPCON FLATHEAD	1.00"	2.0"	1
CLIP	WOOD: MIN. SG = 0.55	#10 WOOD SCREW	1.5"	0.75"	1
	METAL: 18 GAUGE STEEL, MIN. Fy = 33KSI	#12 TEK SCREW	3 THREADS MIN PENETRATION BEYOND METAL	0.50"	1
	METAL: ALUMINUM MIN. 6063-T5 1/8" WALL THICKNESS	#12 TEK SCREW	3 THREADS MIN PENETRATION BEYOND METAL	0.50"	1
	CONCRETE: MIN. f'c = 3000 PSI	1/4" ITW TAPCON FLATHEAD	1.25"	2.0"	1
	MASONRY: CMU MIN. 2000 PSI	1/4" ITW TAPCON FLATHEAD	1.00"	2.0"	1

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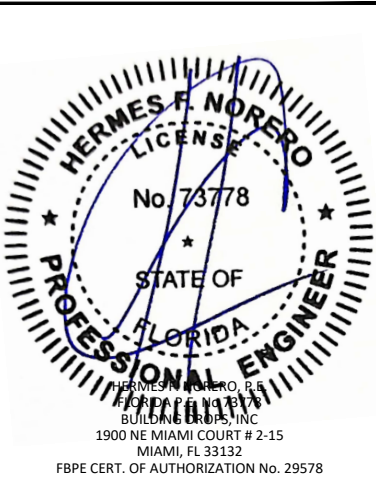
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