

ARCADIA CUSTOM

SERIES 5500 SLIDING GLASS DOOR

(WZ3) (IMPACT)



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

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

TITLE:
SERIES 5500 SLIDING GLASS DOOR
(WZ3) (IMPACT)

GENERAL NOTES & DESIGN PRESSURE

PREPARED BY:

BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com



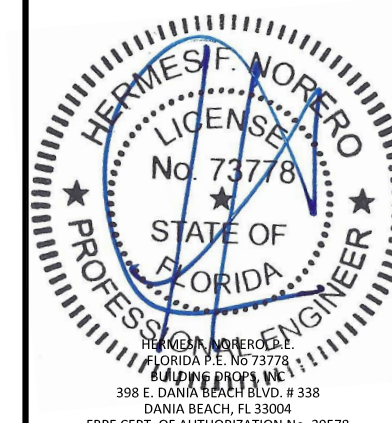
GENERAL NOTES:

- 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/A440-17
 - ASTM E 1886-13a
 - ASTM E 1996-17
- ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY AND 2X 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.
- DOOR FRAME MATERIAL: 6063-T5 ALUMINUM
- GLASS MEETS THE REQUIREMENTS OF ASTM E 1300 GLASS CHARTS. SEE SHEET 5 FOR GLAZING DETAIL.
- DESIGNATIONS "X" AND "O" STAND FOR THE FOLLOWING:
 - X: OPERABLE PANEL
 - O: FIXED PANEL
- APPROVED CONFIGURATION:
 - 2 TRACK: OXXO, OX, OXO, XOX

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REMARKS	BY	DATE

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DESIGN PRESSURE RATING		
INTERLOCK	DESIGN PRESSURE	MISSILE IMPACT RATING
HI LOAD	SEE SHEET 5	LARGE AND SMALL MISSILE IMPACT RESISTANT
STANDARD		LARGE AND SMALL MISSILE IMPACT RESISTANT

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DATE: **04.07.21**

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AC

CHK. BY:
HFN

SCALE: **NTS**

DWG. #: **ACWD011**

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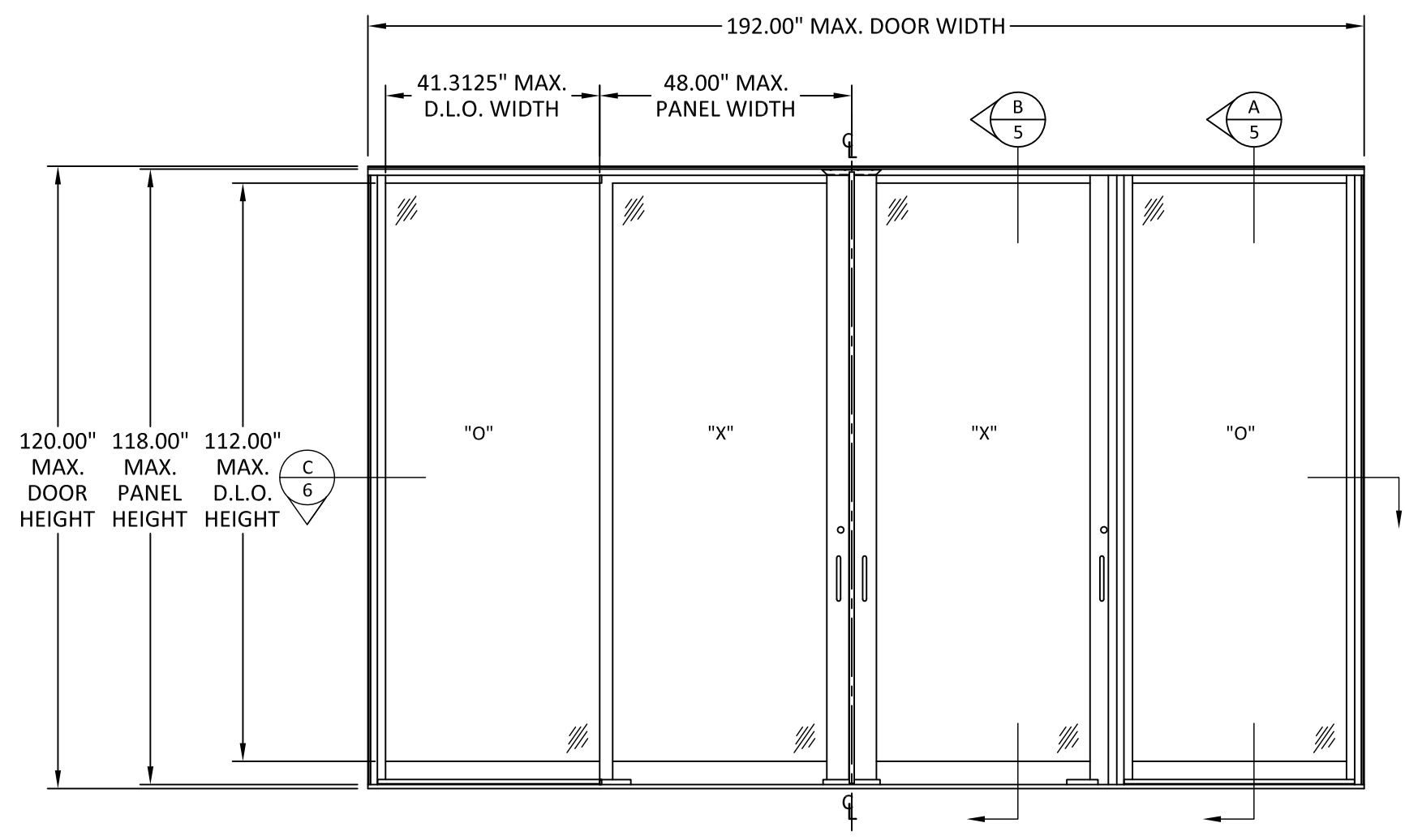


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ELEVATION

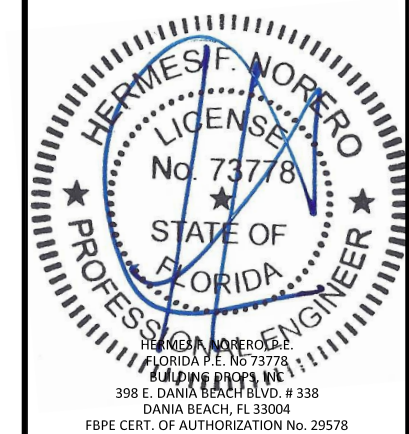
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ELEVATION
EXTERIOR VIEW - 2 TRACK

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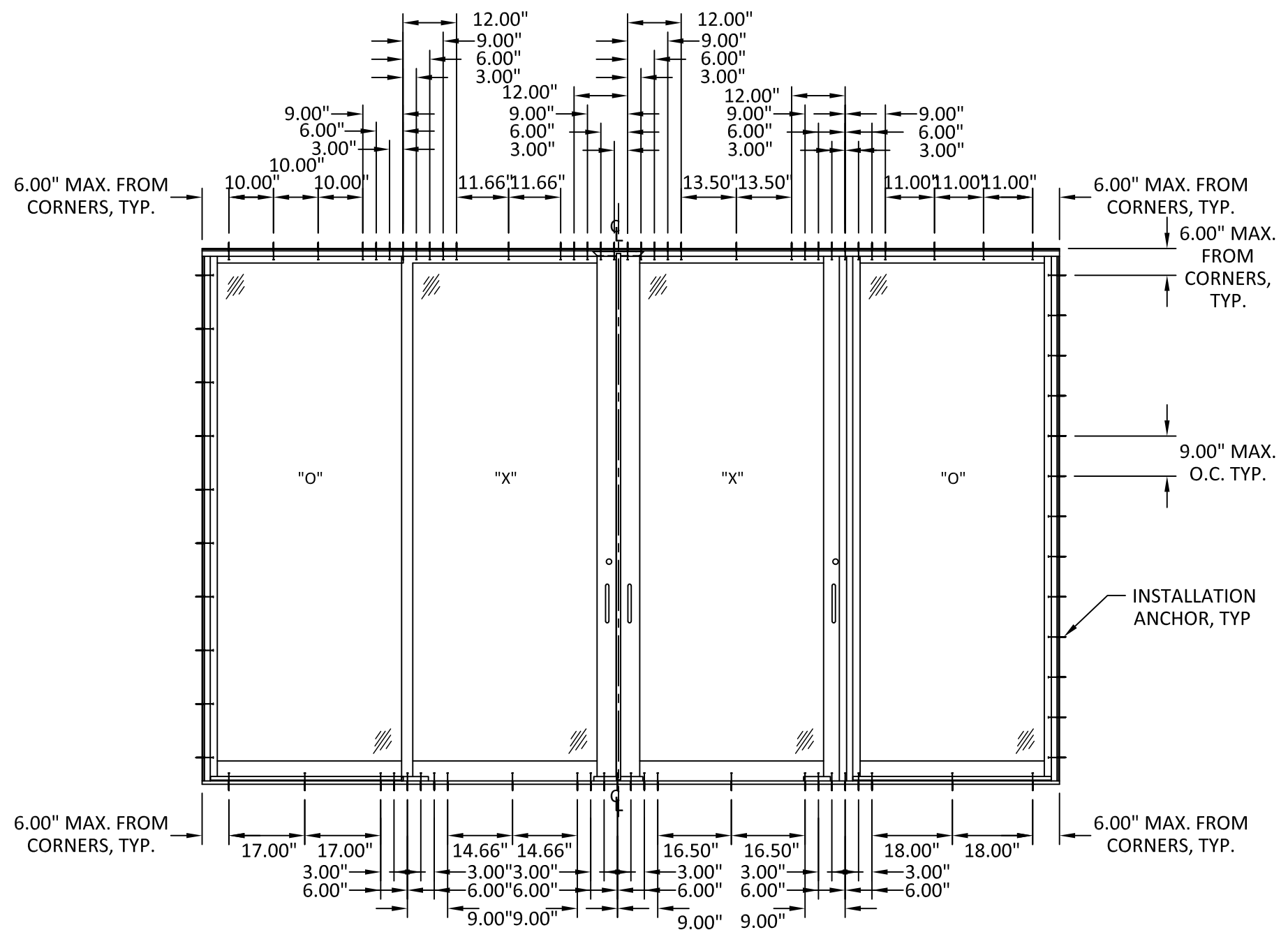
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TITLE: **SERIES 5500 SLIDING GLASS DOOR (WZ3) (IMPACT)**
ANCHOR LAYOUT

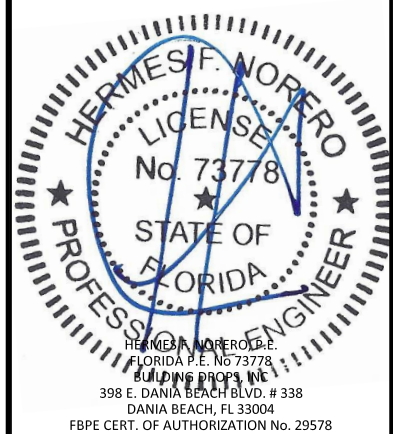
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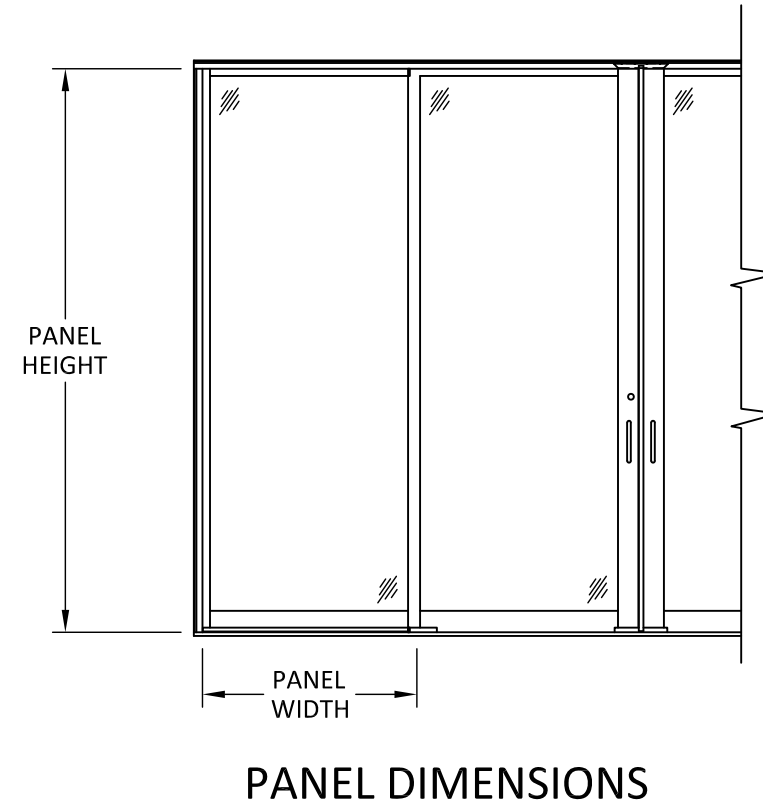
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DESIGN PRESSURE TABLE

COMPARATIVE ANALYSIS

DESIGN PRESSURE TABLE (PSF) - STANDARD INTERLOCK												
NOMINAL PANEL WIDTH (INCHES)												
PANEL HEIGHT (INCHES)	36	39	42	45	48	51	54	57	60	63	66	
84	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
87	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	-
90	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	-	-
93	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	-	-	-
96	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	-	-	-
99	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	-	-	-	-
102	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	-	-	-	-
105	45.0	45.0	45.0	45.0	45.0	45.0	45.0	-	-	-	-	-
108	45.0	45.0	45.0	45.0	45.0	45.0	45.0	-	-	-	-	-
111	45.0	45.0	45.0	45.0	45.0	-	-	-	-	-	-	-
114	45.0	45.0	45.0	45.0	45.0	-	-	-	-	-	-	-
118	45.0	45.0	45.0	45.0	45.0	-	-	-	-	-	-	-
120	45.0	45.0	45.0	45.0	-	-	-	-	-	-	-	-
123	45.0	45.0	44.5	41.8	-	-	-	-	-	-	-	-
126	45.0	44.2	41.3	-	-	-	-	-	-	-	-	-
129	44.3	41.1	38.4	-	-	-	-	-	-	-	-	-
132	41.3	38.3	35.8	-	-	-	-	-	-	-	-	-
135	38.5	35.8	-	-	-	-	-	-	-	-	-	-
138	36.0	33.4	-	-	-	-	-	-	-	-	-	-
141	33.8	31.3	-	-	-	-	-	-	-	-	-	-
144	31.7	29.3	-	-	-	-	-	-	-	-	-	-

DESIGN PRESSURE TABLE (PSF) - HI LOAD INTERLOCK												
NOMINAL PANEL WIDTH (INCHES)												
PANEL HEIGHT (INCHES)	36	39	42	45	48	51	54	57	60	63	66	
84	70.0	70.0	70.0	70.0	70.0	65.3	61.1	57.5	54.2	51.4	48.8	-
87	70.0	70.0	70.0	70.0	70.0	65.3	61.1	57.5	54.2	51.4	-	-
90	70.0	70.0	70.0	70.0	70.0	65.3	61.1	57.5	54.2	-	-	-
93	70.0	70.0	70.0	70.0	70.0	65.3	61.1	57.5	-	-	-	-
96	70.0	70.0	70.0	70.0	70.0	65.3	61.1	57.5	-	-	-	-
99	70.0	70.0	70.0	70.0	70.0	65.3	61.1	-	-	-	-	-
102	70.0	70.0	70.0	70.0	70.0	65.3	61.1	-	-	-	-	-
105	70.0	70.0	70.0	70.0	70.0	65.3	-	-	-	-	-	-
108	70.0	70.0	70.0	70.0	70.0	65.3	-	-	-	-	-	-
111	70.0	70.0	70.0	70.0	70.0	-	-	-	-	-	-	-
114	70.0	70.0	70.0	70.0	70.0	-	-	-	-	-	-	-
118	70.0	70.0	70.0	70.0	70.0	-	-	-	-	-	-	-
120	70.0	70.0	70.0	70.0	-	-	-	-	-	-	-	-
123	70.0	70.0	69.2	65.1	-	-	-	-	-	-	-	-
126	70.0	68.8	64.3	-	-	-	-	-	-	-	-	-
129	68.9	64.0	59.8	-	-	-	-	-	-	-	-	-
132	64.2	59.6	55.7	-	-	-	-	-	-	-	-	-
135	60.0	55.6	-	-	-	-	-	-	-	-	-	-
138	56.1	52.0	-	-	-	-	-	-	-	-	-	-
141	52.5	48.7	-	-	-	-	-	-	-	-	-	-
144	49.2	45.6	-	-	-	-	-	-	-	-	-	-



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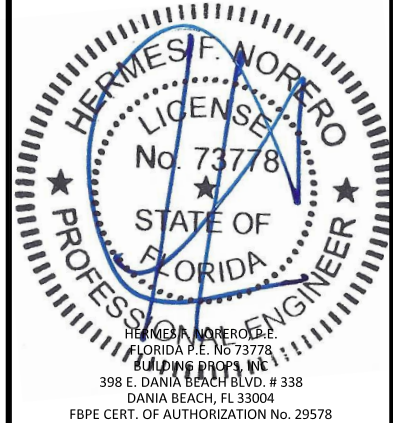
DESIGN PRESSURE TABLE

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TITLE: **SERIES 5500 SLIDING GLASS DOOR (WZ3) (IMPACT)**

VERTICAL SECTIONS & GLAZING DETAIL

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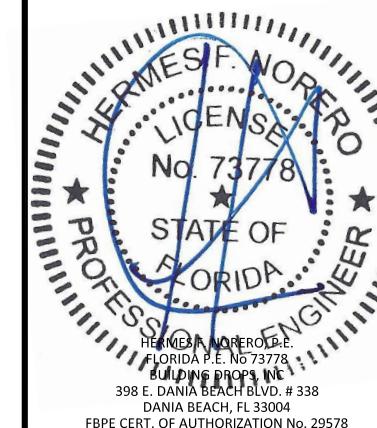
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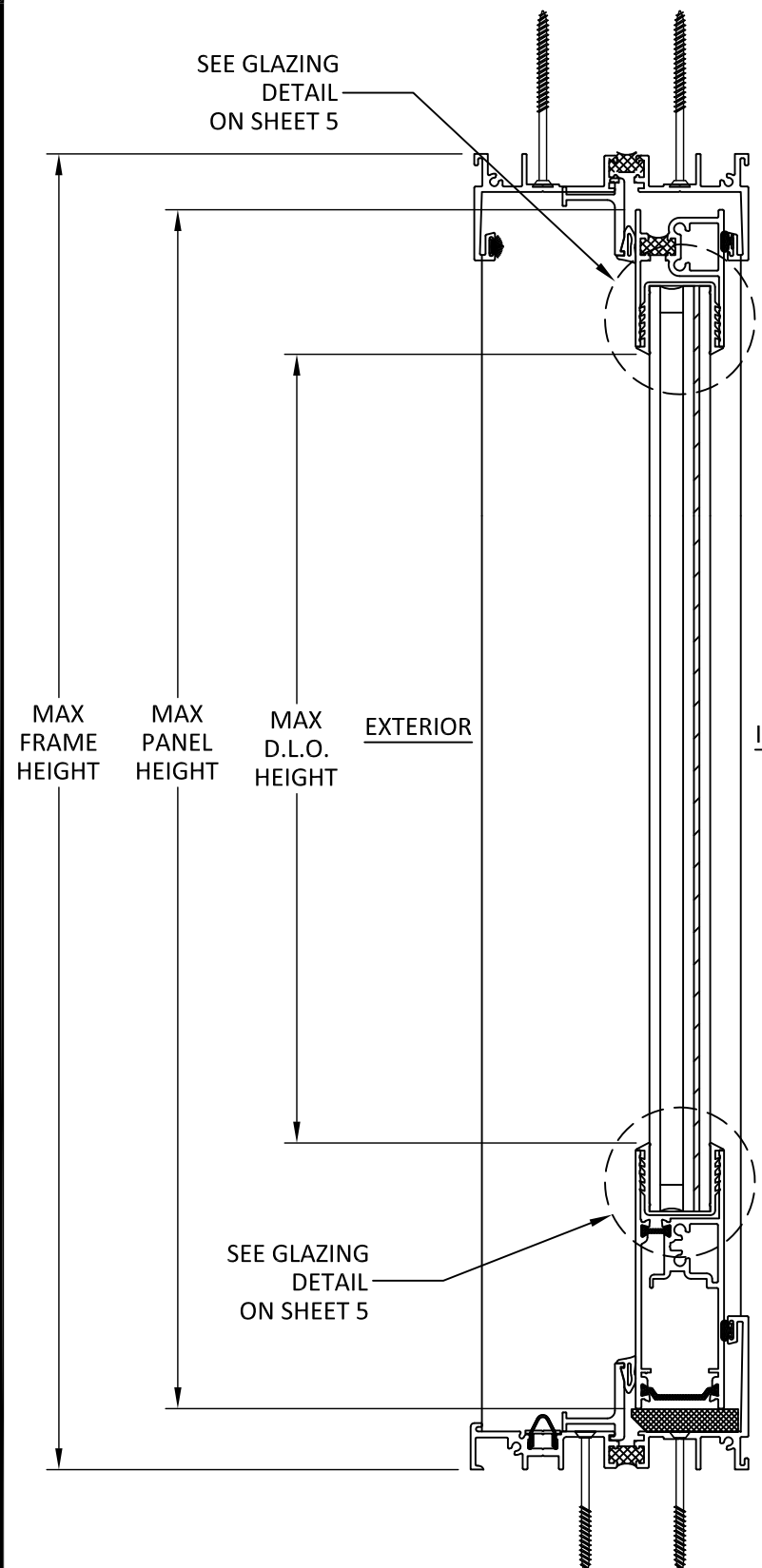
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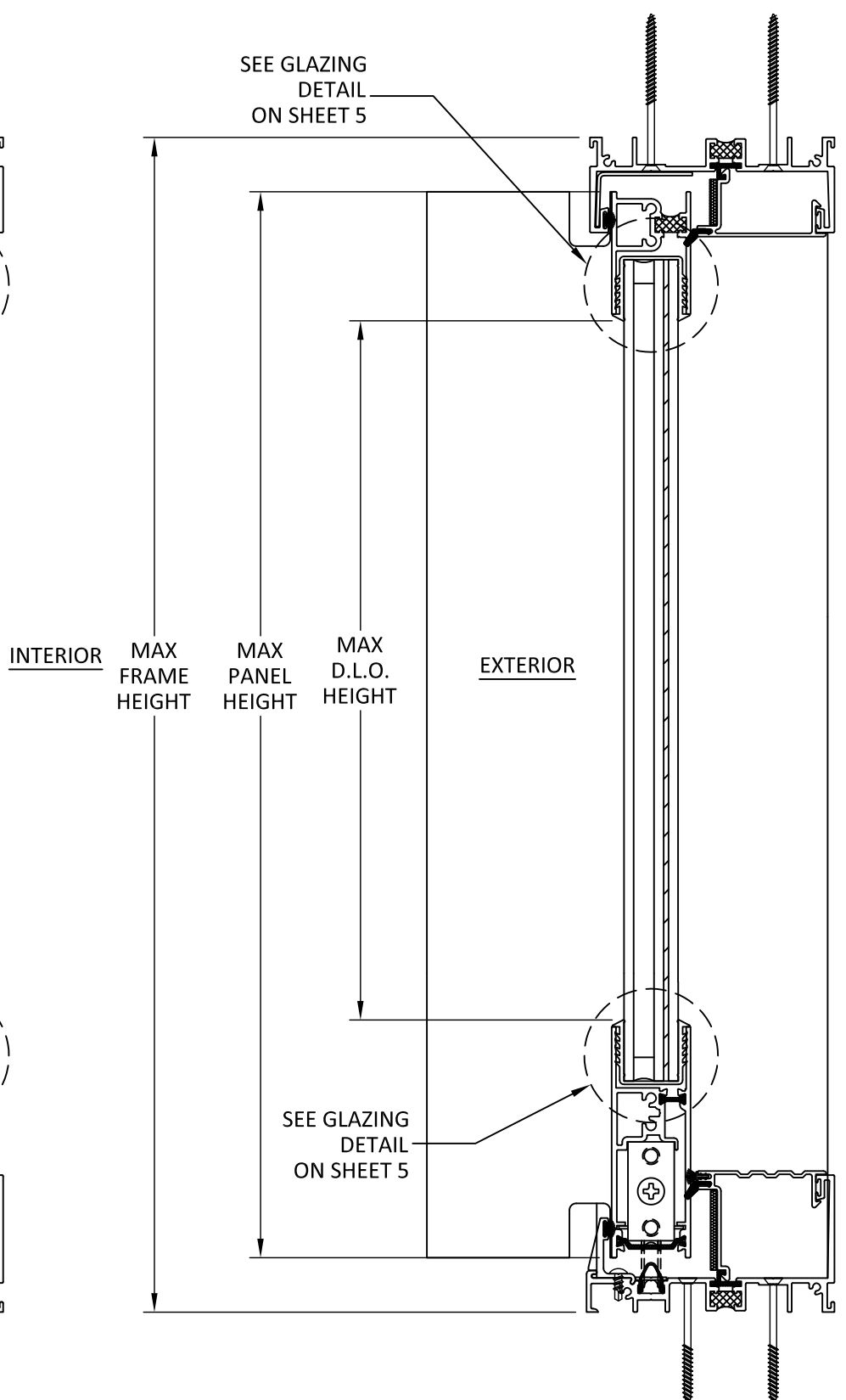
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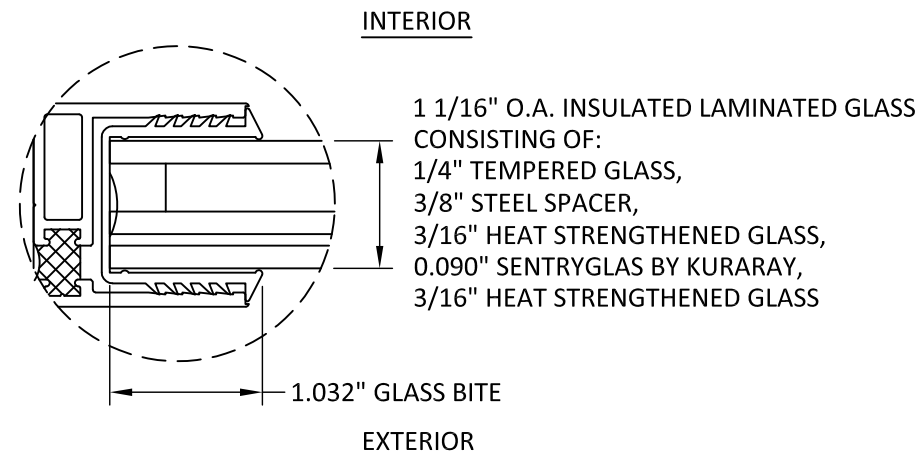
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A
5 **VERTICAL SECTION**
SLIDING GLASS DOOR



B
5 **VERTICAL SECTION**
SLIDING GLASS DOOR



GLAZING DETAIL

- GLAZING NOTES:**
- GLASS TYPE AND THICKNESS SHALL COMPLY WITH ASTM E1300 REQUIREMENTS AS WELL AS APPLICABLE SAFETY GLAZING REQUIREMENTS PER THE FBC. THICKNESS, TEMPER, AND SAFETY GLAZING REQUIREMENTS SHALL BE REVIEWED ON A SITE SPECIFIC BASIS.
 - SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN FBC CHAPTER 24.
 - SETTING BLOCKS TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36" AS PER FBC CHAPTER 24.
 - D.L.O. AND DESIGN PRESSURES MAY NOT EXCEED MAX VALUES IN GLASS CHARTS.

TITLE: **SERIES 5500 SLIDING GLASS DOOR (WZ3) (IMPACT)**

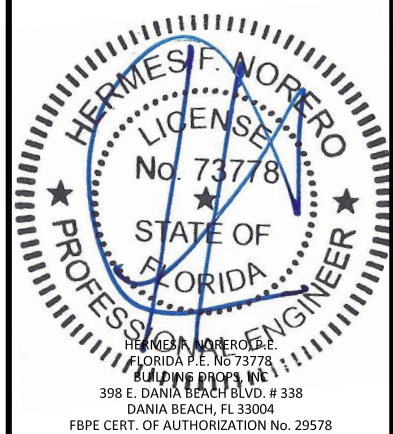
HORIZONTAL SECTIONS

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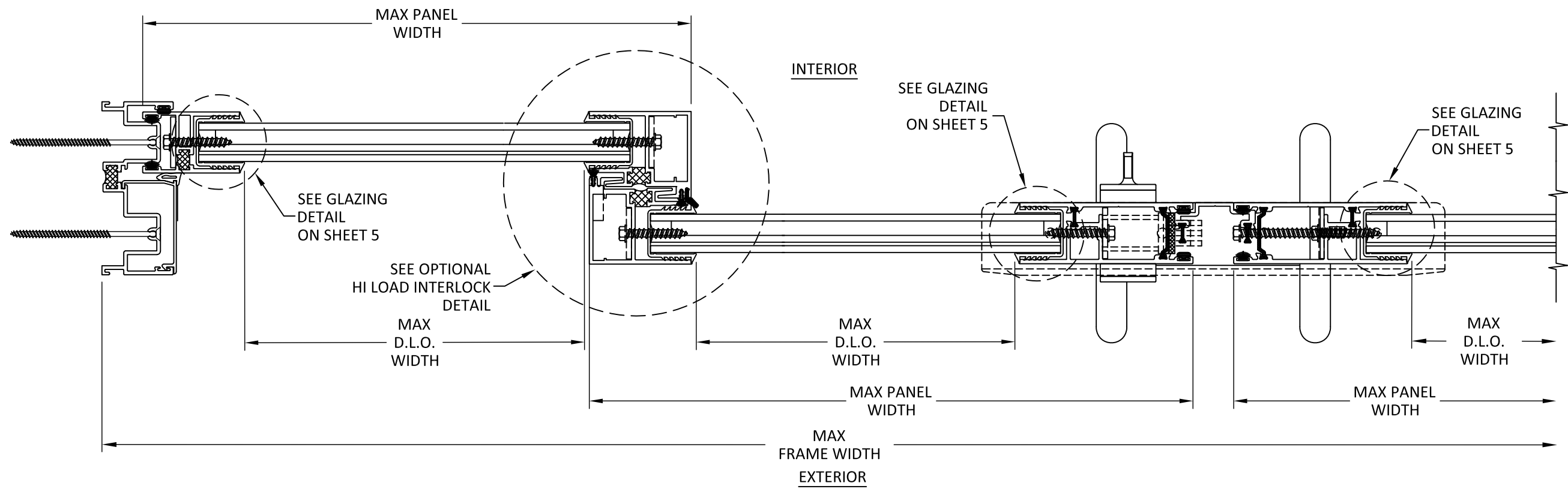
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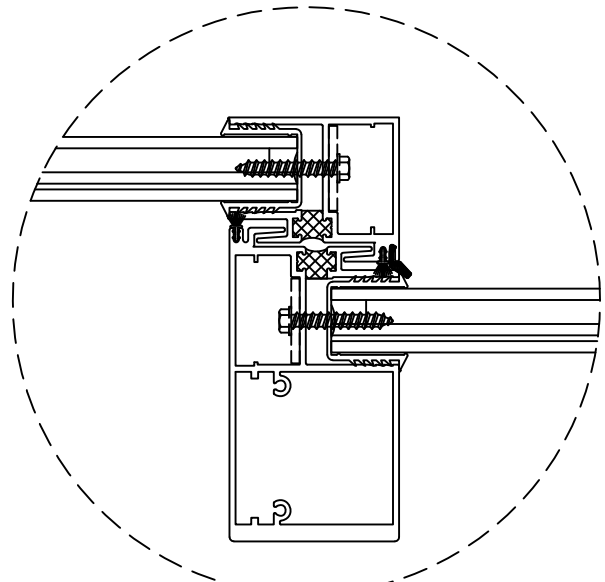
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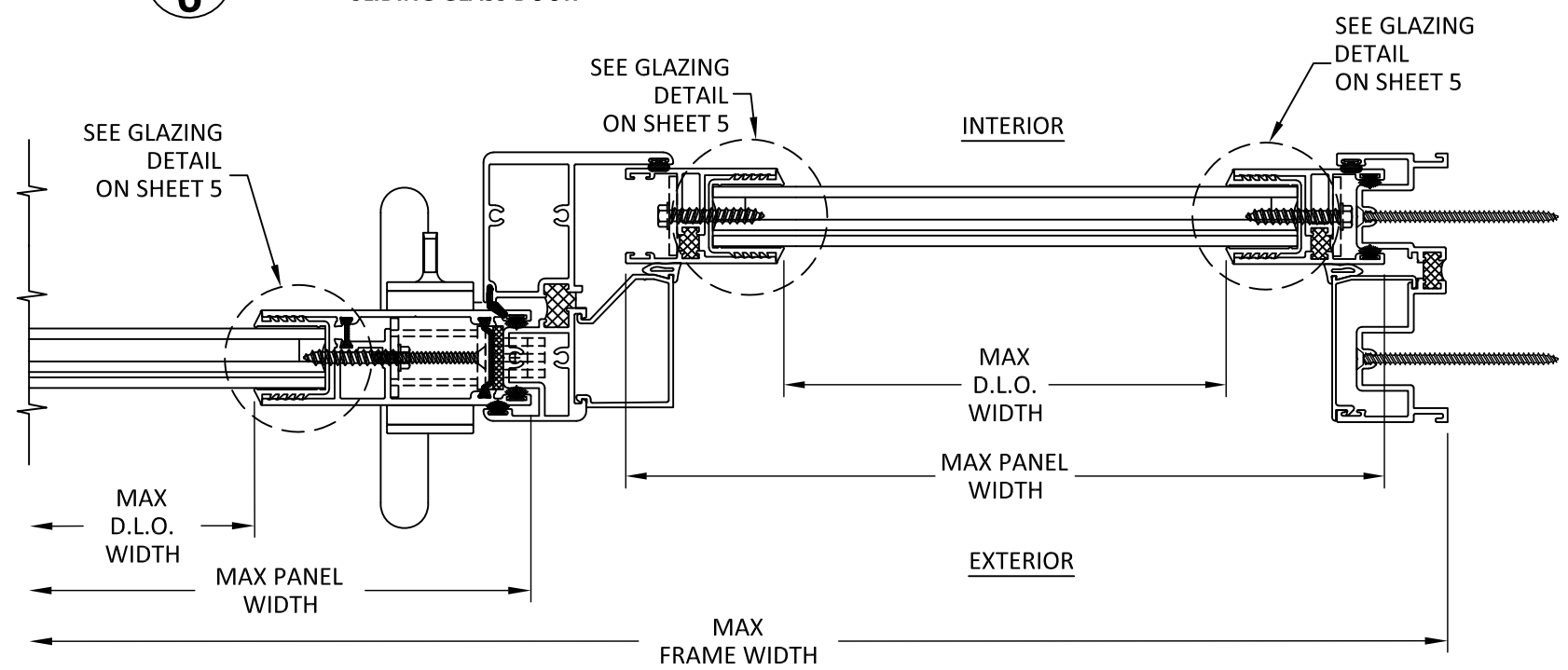
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C **HORIZONTAL SECTION**
6 **SLIDING GLASS DOOR**



HI LOAD INTERLOCK DETAIL

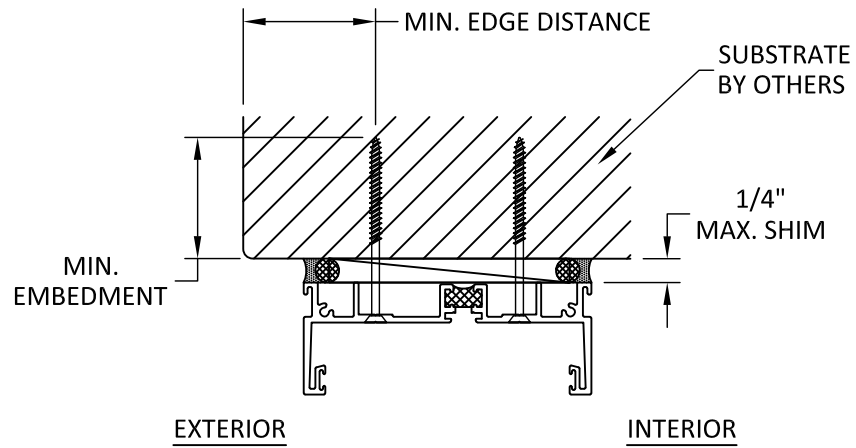


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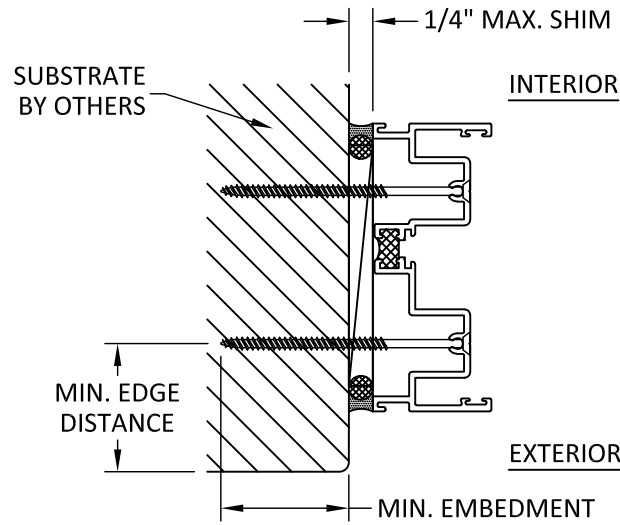
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INSTALLATION NOTES & ANCHOR DETAILS

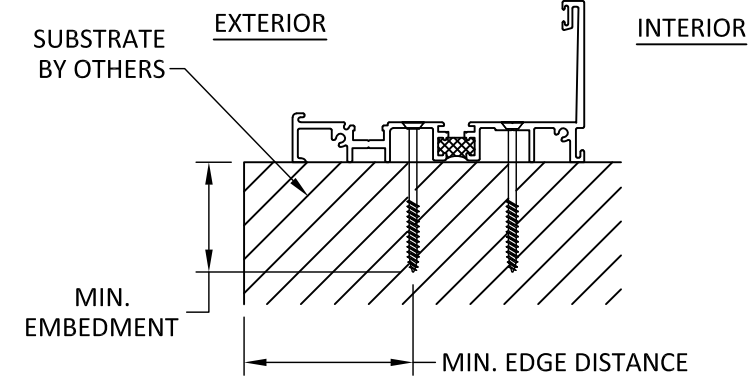
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D
7 ANCHOR DETAIL
AT HEAD



E
7 ANCHOR DETAIL
AT JAMB



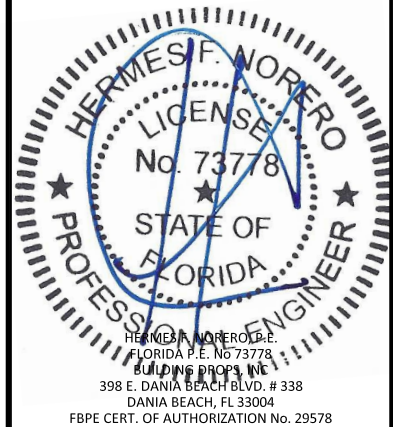
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INSTALLATION NOTES:

- TWO (2) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN ON SHEET 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	MIN. SPACING
THROUGH FRAME	WOOD: MIN. SG = 0.55	#14 WOOD SCREW	1.5"	0.75"	N/A
	METAL: 18 GAUGE Steel, MIN. Fy = 33KSI	#10 TEK SCREW	3 THREADS MIN PENETRATION BEYOND METAL	0.50"	N/A
	CONCRETE: MIN. f'c = 3000 PSI	1/4" ITW TAPCON FLATHEAD	1.25"	2.0"	3.0"
	MASONRY: CMU MIN. 2000 PSI	1/4" ITW TAPCON FLATHEAD	1.00"	2.0"	3.0"

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