

EUROLINE STEEL WINDOWS & DOORS

THERMAL STEEL BI-FOLDING DOOR

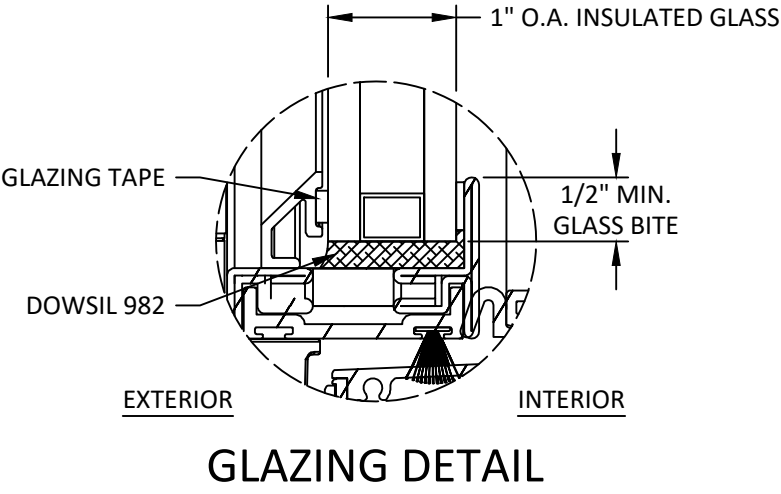
(NON-HVHZ) (NON-IMPACT)

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT EDITION FLORIDA BUILDING CODE (FBC) **EXCLUDING** HVHZ. ALL PRODUCTS UNDER THE SCOPE OF THIS DOCUMENT HAVE BEEN EVALUATED ACCORDING TO THE FOLLOWING:
- AAMA/WDMA/CSA 101/I.S.2/A440-22
 - ASTM E283/E283M-19
 - ASTM E330/E330M-14(21)
2. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X 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.
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.
5. APPROVED IMPACT PROTECTIVE SYSTEM **IS REQUIRED** TO PROTECT THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
6. FRAME MATERIAL: STEEL (MIN. Fy = 33 ksi).
7. ALL STRUCTURAL MATERIALS & DISSIMILAR METALS SHALL BE PROTECTED, TREATED, PAINTED, COATED, AND/OR ISOLATED AS REQUIRED IN THE APPLICABLE SECTIONS OF THE CURRENT FLORIDA BUILDING CODE AND REFERENCED DESIGN SPECIFICATIONS.
8. GLASS SHALL MEET THE REQUIREMENTS OF ASTM E 1300 GLASS CHARTS. SEE SHEET 1 FOR GLAZING DETAILS.

TABLE OF CONTENTS	
SHEET	SHEET DESCRIPTION
1	GENERAL NOTES AND GLAZING DETAIL
2	TYPICAL ELEVATION, ANCHOR LAYOUT, AND DESIGN PRESSURE TABLE
3	VERTICAL SECTIONS
4	HORIZONTAL SECTIONS
5	INSTALLATION DETAILS AND NOTES

DESIGN PRESSURE RATING		
FRAME SIZE	DESIGN PRESSURE	MISSILE RATING
SEE SHEET 2		NON-IMPACT



- GLAZING NOTES:
- GLASS TYPE & THICKNESS SHALL COMPLY 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.
 - 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 SHEET 2.



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GENERAL NOTES & GLAZING DETAIL

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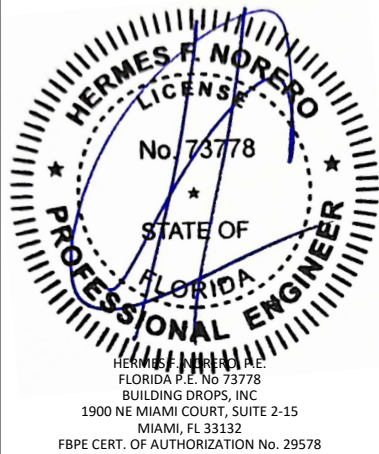
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REMARKS	BY	DATE

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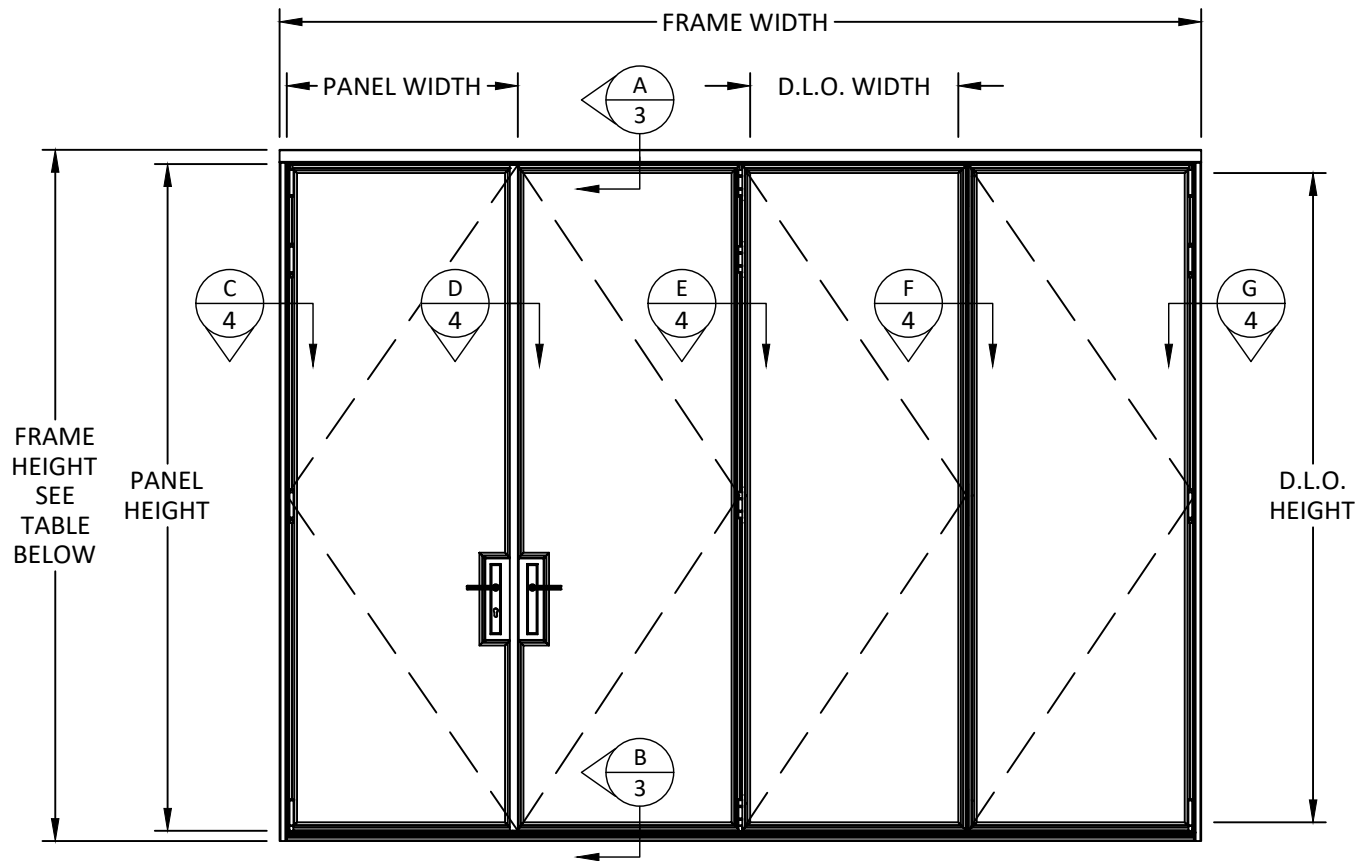
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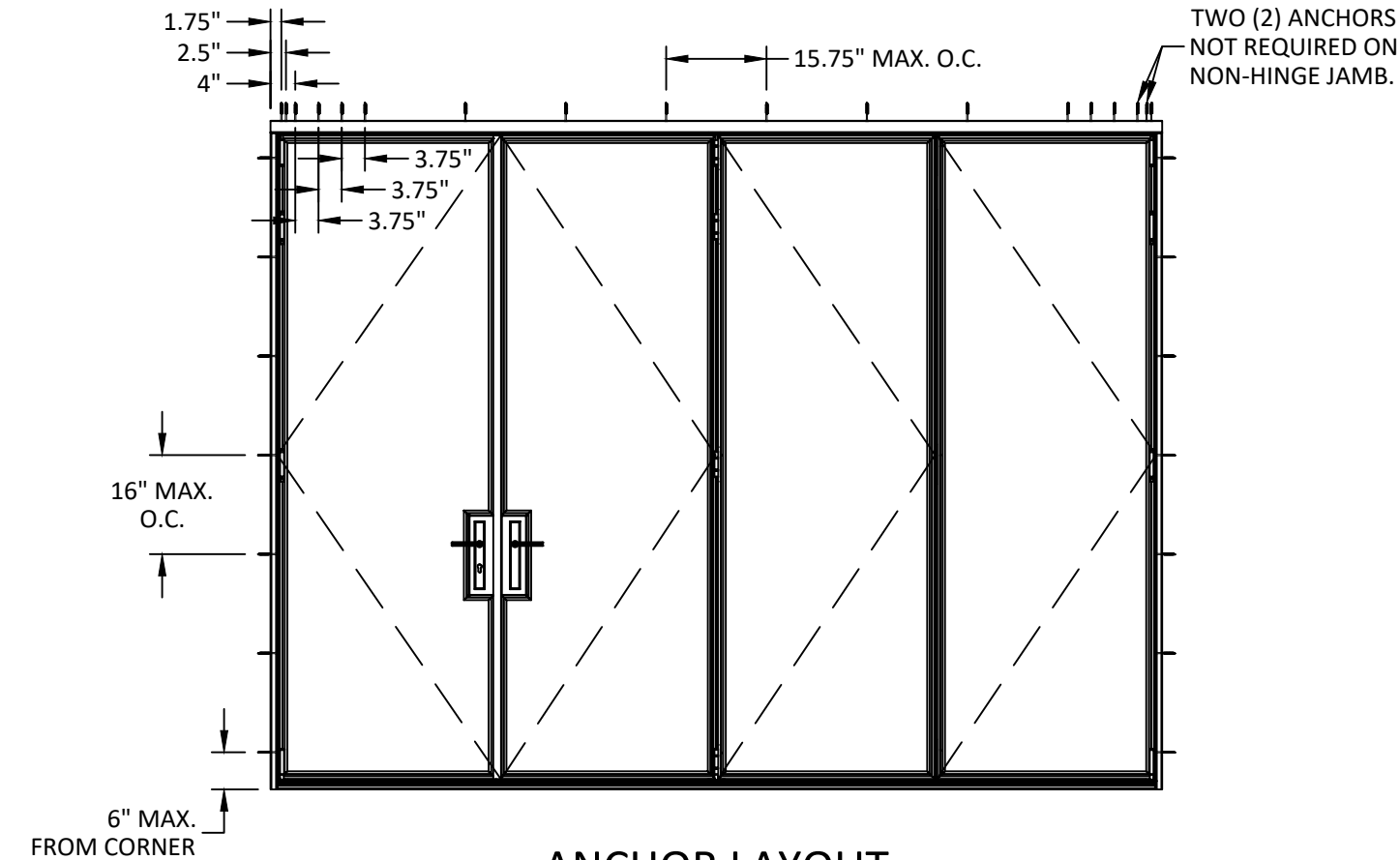
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SHEET: **1**

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TYPICAL ELEVATION
1L3R



ANCHOR LAYOUT

PANEL HEIGHT = FRAME HEIGHT - 3 15/16"
D.L.O. HEIGHT = FRAME HEIGHT - 7 15/32"

FRAME WIDTH = NOMINAL PANEL WIDTH × PANEL QUANTITY
PANEL WIDTH = NOMINAL PANEL WIDTH - 5/8"
D.L.O. WIDTH = NOMINAL PANEL WIDTH - 3"

THERMAL STEEL BI-FOLDING CONFIGURATION TABLE									
PANEL QUANTITY	QUALIFIED CONFIGURATIONS*								
2	2L	2R	-	-	-	-	-	-	-
3	3L	2L1R	1L2R	3R	-	-	-	-	-
4	4L	3L1R	2L2R	1L3R	4R	-	-	-	-
5	5L	4L1R	3L2R	2L3R	1L4R	5R	-	-	-
6	6L	5L1R	4L2R	3L3R	2L4R	1L5R	6R	-	-
7	7L	6L1R	5L2R	4L3R	3L4R	2L5R	1L6R	7R	-
8	8L	7L1R	6L2R	5L3R	4L4R	3L5R	2L6R	1L7R	8R

* "2L" REPRESENT 2 PANELS FOLDING TO THE LEFT. "2L2R" REPRESENTS A 4-PANEL DOOR WITH 2 PANELS FOLDING TO THE LEAF AND 2 PANELS FOLDING TO THE RIGHT.

DESIGN PRESSURE TABLE (+/- PSF) - BI-FOLDING DOOR								
FRAME HEIGHT (IN.)	NOMINAL PANEL WIDTH (IN.)							
	24	27	30	33	36	39	42	45
80	40.00	40.00	40.00	40.00	40.00	28.82	21.29	16.06
84	40.00	40.00	40.00	40.00	40.00	28.82	21.29	16.06
96	40.00	40.00	40.00	40.00	40.00	28.82	21.29	16.06
108	40.00	40.00	40.00	40.00	40.00	28.82	21.29	16.06
111	40.00	40.00	40.00	39.77	36.64	28.82	21.29	16.06
114	40.00	40.00	40.00	36.53	33.64	28.82	21.29	16.06
117	40.00	40.00	36.89	33.64	30.97	28.73	21.29	16.06
120	40.00	37.78	34.06	31.05	28.57	26.50	21.29	16.06
123	39.33	34.96	31.51	28.72	26.41	24.49	21.29	16.06
126	36.47	32.41	29.21	26.61	24.47	22.68	21.17	16.06
129	33.89	30.11	27.12	24.71	22.72	21.05	19.64	16.06
132	31.54	28.02	25.24	22.98	21.13	19.57	18.25	16.06
135	29.41	26.12	23.52	21.42	19.68	18.23	16.99	15.93
138	27.46	24.39	21.96	19.99	18.37	17.00	15.85	-
141	25.68	22.81	20.53	18.69	17.17	15.89	-	-
144	24.06	21.36	19.22	17.50	16.07	-	-	-
147	22.56	20.03	18.03	16.40	15.06	-	-	-
150	21.19	18.81	16.93	15.40	-	-	-	-
153	19.93	17.69	15.92	-	-	-	-	-
156	18.77	16.66	-	-	-	-	-	-



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TYPICAL ELEVATION, ANCHOR LAYOUT
& DESIGN PRESSURE TABLE

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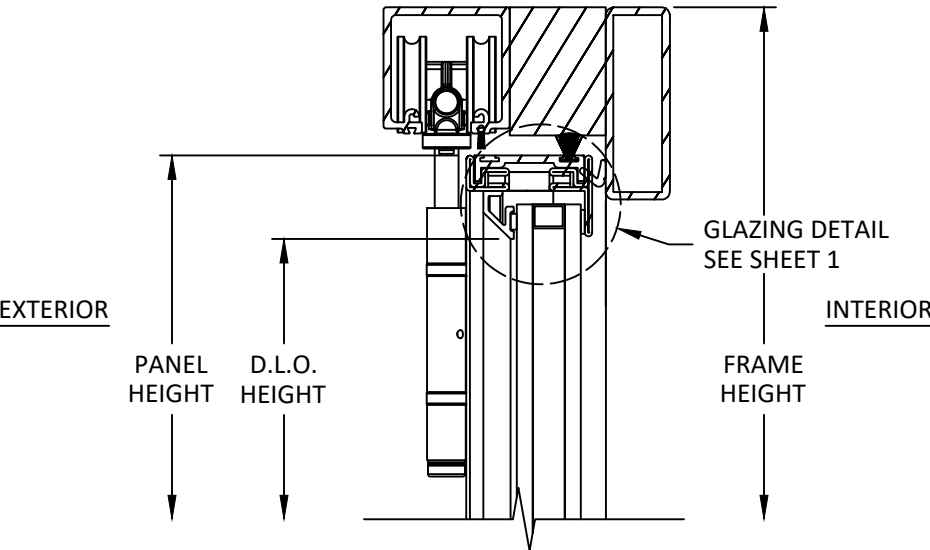
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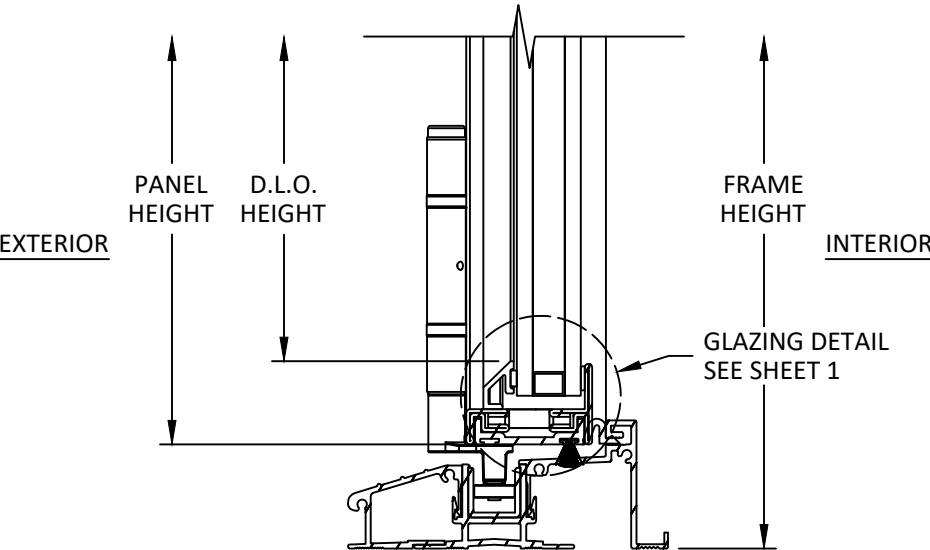


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A
3 VERTICAL SECTION
DOOR HEAD



B
3 VERTICAL SECTION
DOOR SILL



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VERTICAL SECTIONS

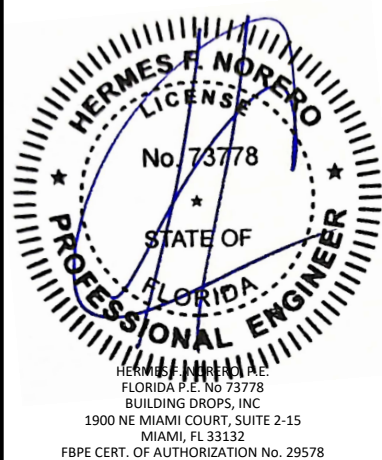
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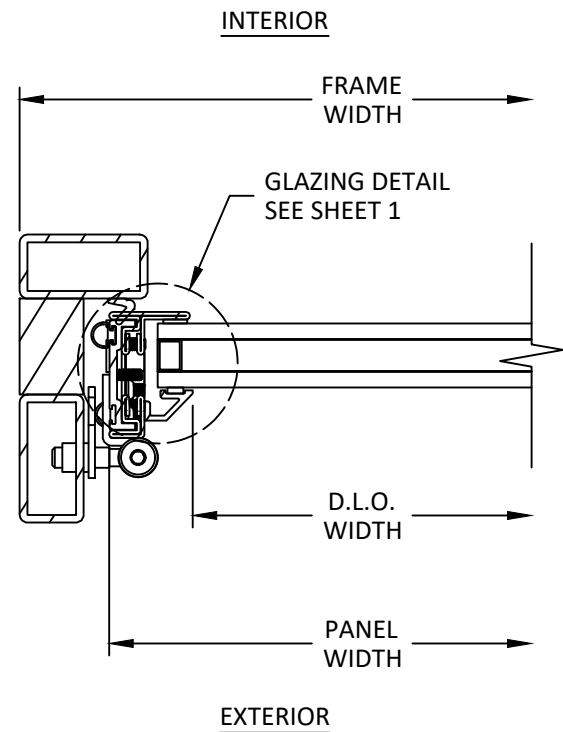
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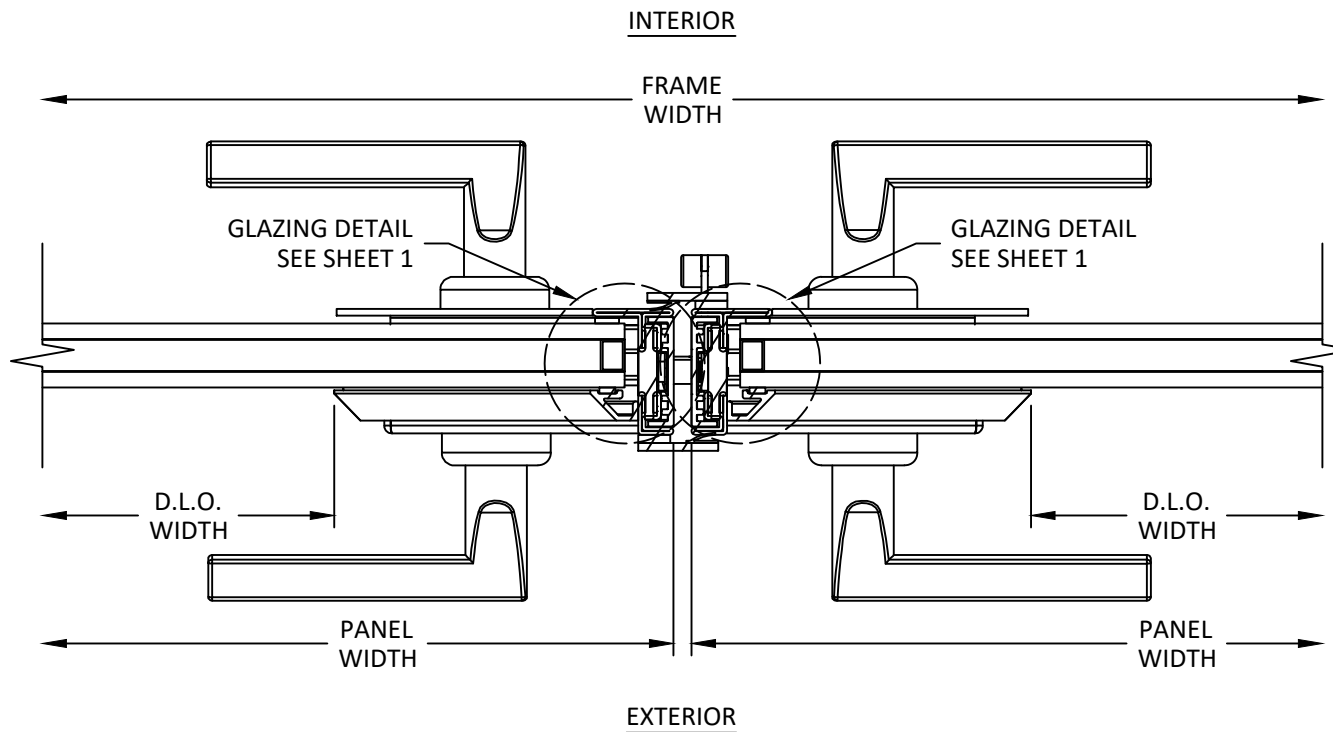
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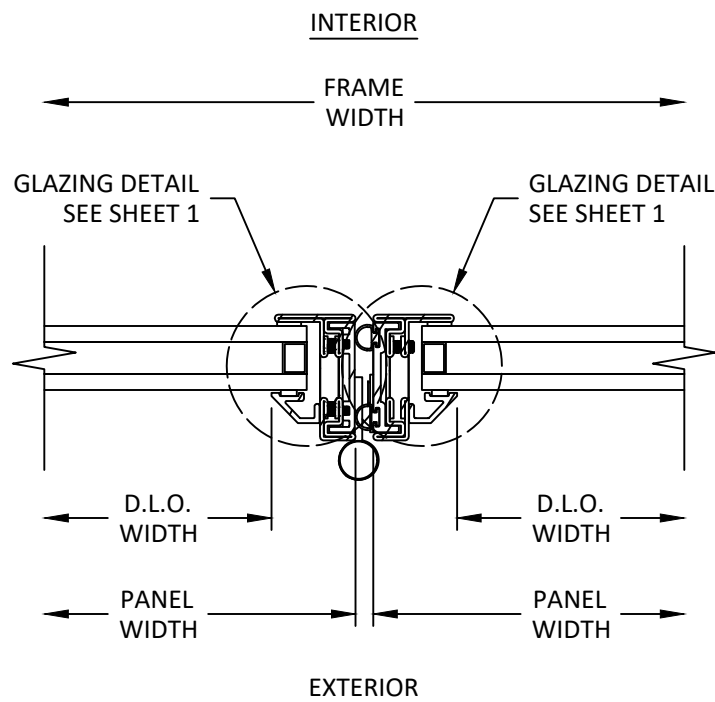
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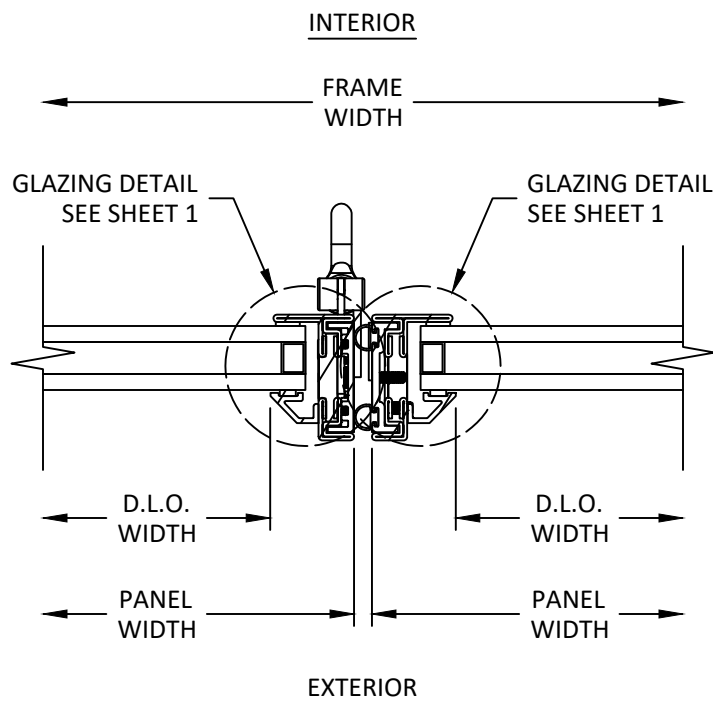
C
4 HORIZONTAL SECTION
HINGE JAMB



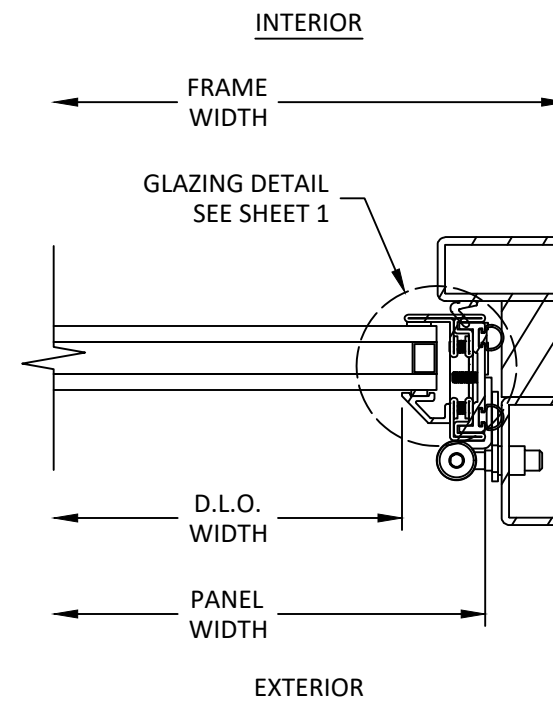
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4 HORIZONTAL SECTION
LOCK STILE



E
4 HORIZONTAL SECTION
MEETING STILE



F
4 HORIZONTAL SECTION
MEETING STILE



G
4 HORIZONTAL SECTION
HINGE JAMB



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HORIZONTAL SECTIONS

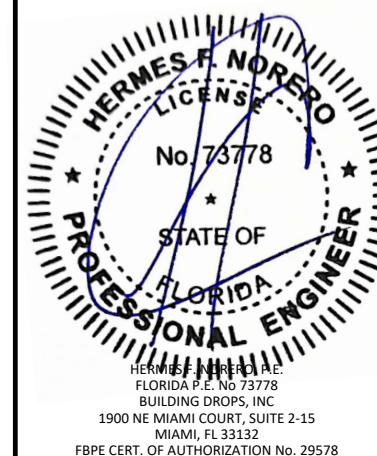
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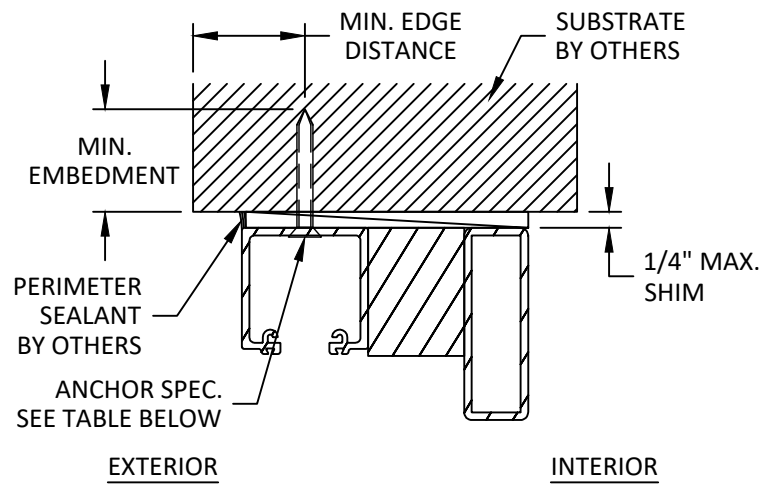
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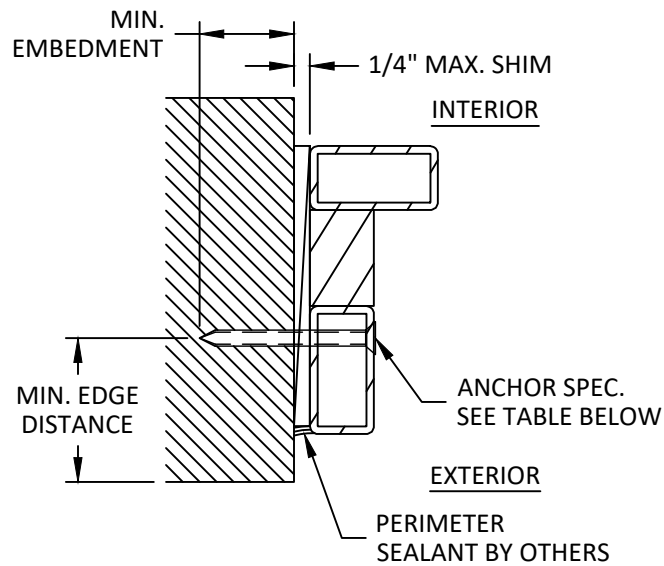


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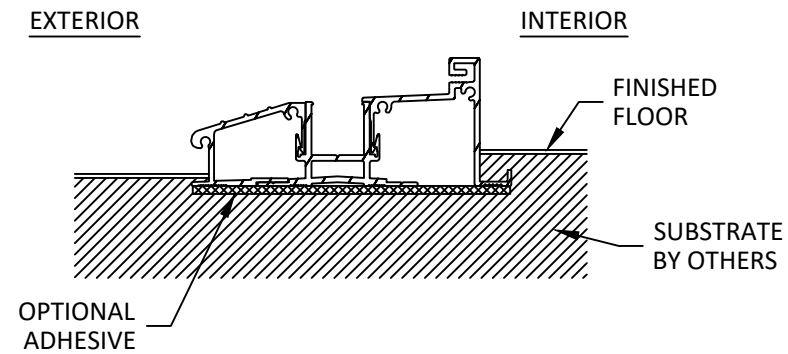
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H
5 INSTALLATION DETAILS
DOOR HEAD



I
5 INSTALLATION DETAILS
DOOR JAMB



J
5 INSTALLATION DETAILS
DOOR SILL

INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHORS ARE REQUIRED AT EACH ANCHOR LOCATION.
- 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 $\pm 1/4$ 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.
- 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.
- 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			
SUBSTRATE	ANCHOR TYPE	MIN. EMBEDMENT	MIN. EDGE DISTANCE
WOOD: MIN. S.G. = 0.55	#10 WOOD SCREW	1-1/2"	3/4"
STEEL: MIN. 18 GA. MIN. Fy = 33 ksi	#10 GRADE 5 SELF-DRILLING/ SELF-TAPPING SCREW	3 THREADS MIN PENETRATION BEYOND METAL	1/2"
ALUMINUM: MIN. 1/8" THICK MIN. 6063-T5			
CONCRETE: MIN. f'c = 3000 psi	3/16" ITW TAPCON	1-1/2"	1-1/2"
MASONRY: HOLLOW OR GROUT- FILLED BLOCK per ASTM C90, MIN. 2000 PSI		1"	2"

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INSTALLATION DETAILS & NOTES

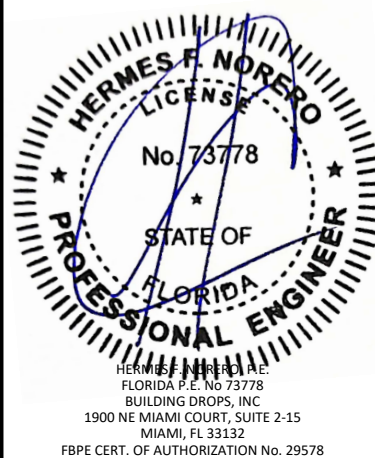
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SHEET:
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