

# DOWNEY GLASS

## DG-800 SERIES SLIDING GLASS DOOR

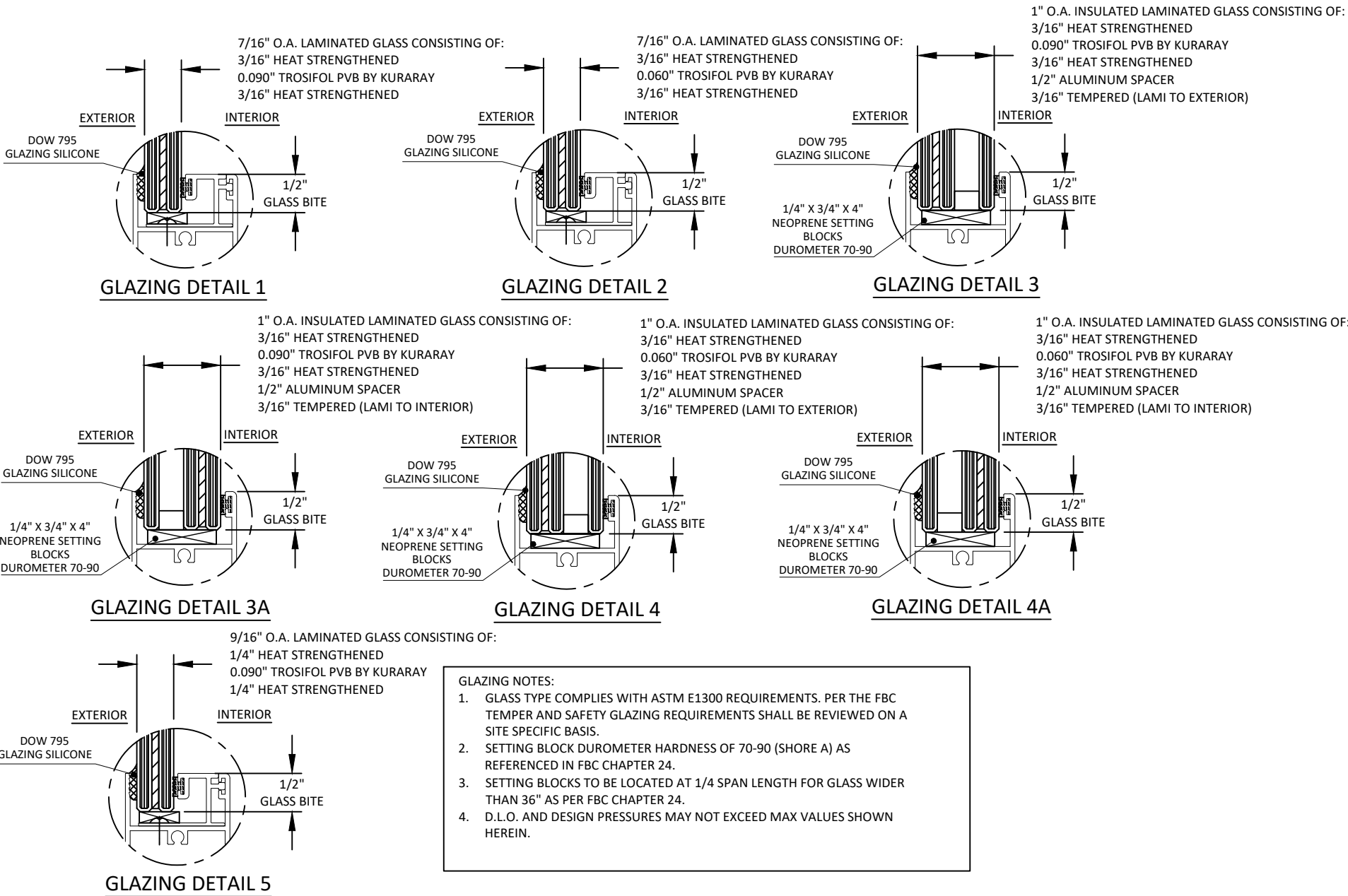
### (HVHZ)(IMPACT)

#### GENERAL NOTES:

- 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
- 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.
- INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF  $\pm 1/4$  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.
- 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.
- WINDOW FRAME MATERIAL: ALUMINUM (6063-T6)
- REINFORCEMENT MATERIAL: ALUMINUM (6063-T6)
- GLASS MEETS THE REQUIREMENTS OF ASTM E 1300 GLASS CHARTS. SEE SHEET 1 FOR GLAZING DETAILS.

DESIGN RATING			
FRAME SIZE	CONFIGURATION	DESIGN PRESSURE	MISSILE IMPACT RATING
SEE SHEET 2	SEE SHEET 2	SEE SHEET 2	LARGE/SMALL MISSILE IMPACT RATING* SEE SHEET 2, GLAZING LEGEND, FOR MORE DETAILS

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5	ANCHOR DETAILS, ANCHOR SCHEDULE AND INSTALLATION NOTES



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POMPANO BEACH, FL 33069  
PH: (954) 972-0026

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(HVHZ)(IMPACT)

GENERAL NOTES AND GLAZING DETAILS

PREPARED BY: BUILDING DROPS, INC.

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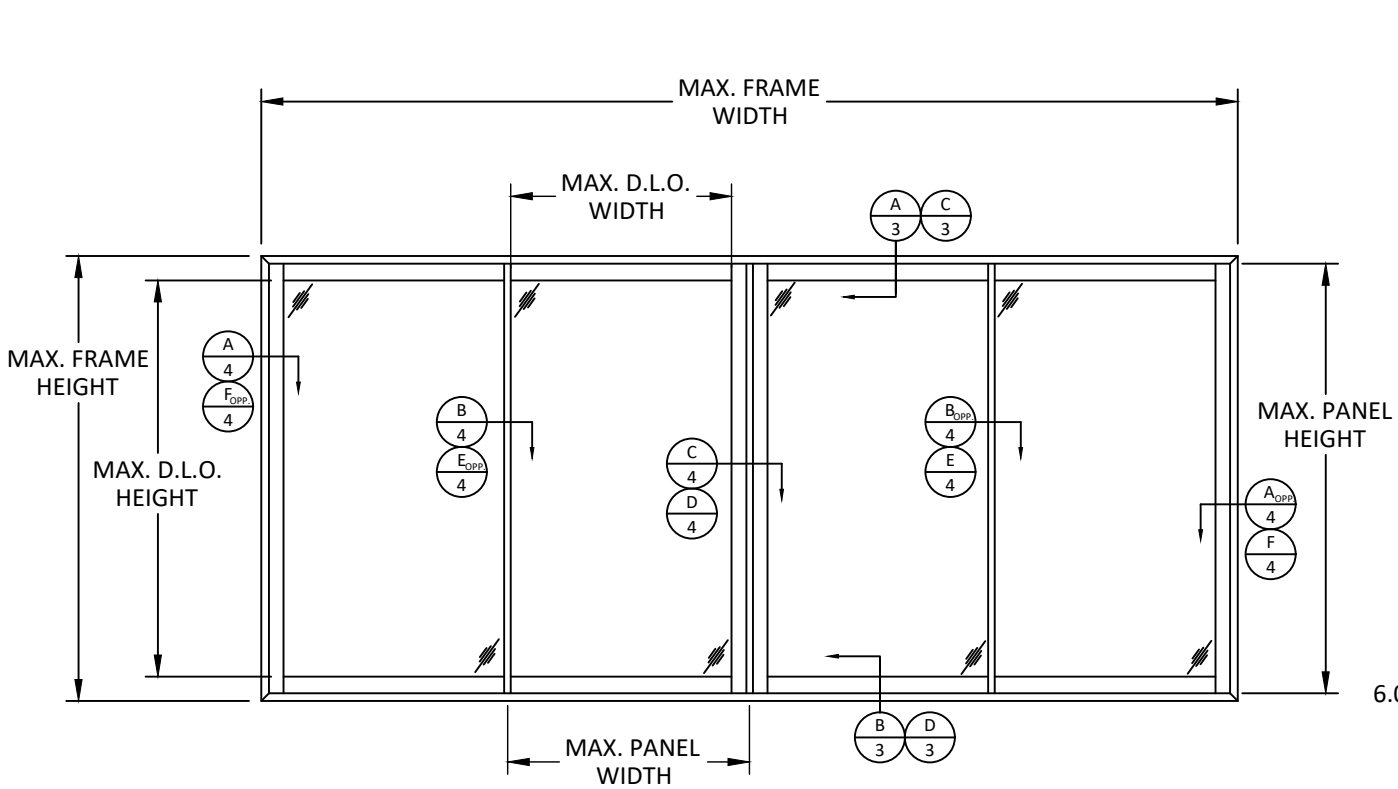
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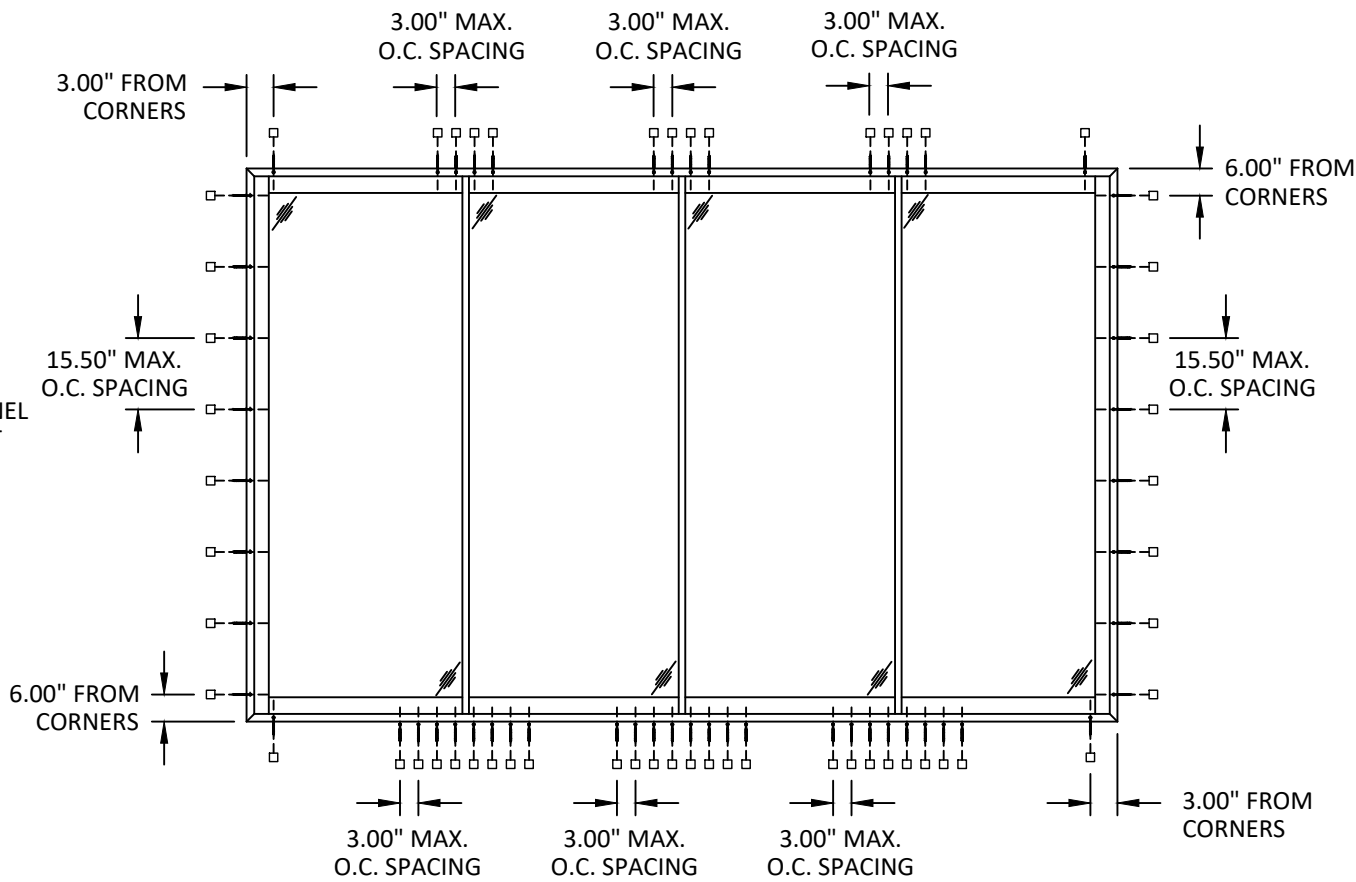


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ELEVATION



ANCHOR LAYOUT  
THROUGH FRAME

NOTE:  
SEE SHEET 5 FOR ANCHOR  
SCHEDULE AND LAYOUT

GLAZING LEGEND	
TYPE	IMPACT RATING
GLAZING DETAIL 1	LMI
GLAZING DETAIL 2	SMI
GLAZING DETAIL 3	LMI
GLAZING DETAIL 3A	LMI
GLAZING DETAIL 4	SMI
GLAZING DETAIL 4A	SMI
GLAZING DETAIL 5	LMI

NOTE: SEE SHEET 1 FOR GLAZING DETAIL, TABLE PRESENTS IMPACT RATING PER GLASS TYPE.

		ALLOWABLE DESIGN PRESSURE TABLE (PSF)						
		PANEL WIDTH (IN.)						
FRAME HEIGHT (IN.)		36	42	48	54	60	66	
	72	90.0	90.0	80.6	51.8	46.6	42.3	
	78	90.0	90.0	80.6	51.8	46.6	-	
	84	90.0	90.0	58.2	51.8	-	-	
	90	90.0	90.0	58.2	-	-	-	
	96	90.0	65.0	58.2	-	-	-	
	102	90.0	65.0	-	-	-	-	
	108	65.0	65.0	-	-	-	-	
	114	65.0	65.0	-	-	-	-	
	120	65.0	-	-	-	-	-	

SLIDING GLASS DOOR LEGEND:

D.L.O. HEIGHT = PANEL HEIGHT - 9.375"  
D.L.O. WIDTH = PANEL WIDTH - 5.00"  
FRAME HEIGHT = PANEL HEIGHT + 1.9375"  
NOMINAL FRAME WIDTH = # OF PANELS X PANEL WIDTH - 2.9375"

- APPROVED CONFIGURATIONS:  
2 PANEL - OX, XO, XX  
3 PANEL - OOX, XOO, XOX, OXO, XXO, OXX, XXX  
4 PANEL - OXXO, OXXX, XXXO, XXOO, XOOX, OOXX, XXXX
- REINFORCEMENT SHALL BE USED ON DOOR SPANS EXCEEDING 96" (8 FEET), SEE SHEET 4 FOR REINFORCEMENT DETAILS
- MAX ALLOWED FRAME AREA = 158 SQFT



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ELEVATION, ANCHOR LAYOUT  
AND DESIGN PRESSURE TABLE

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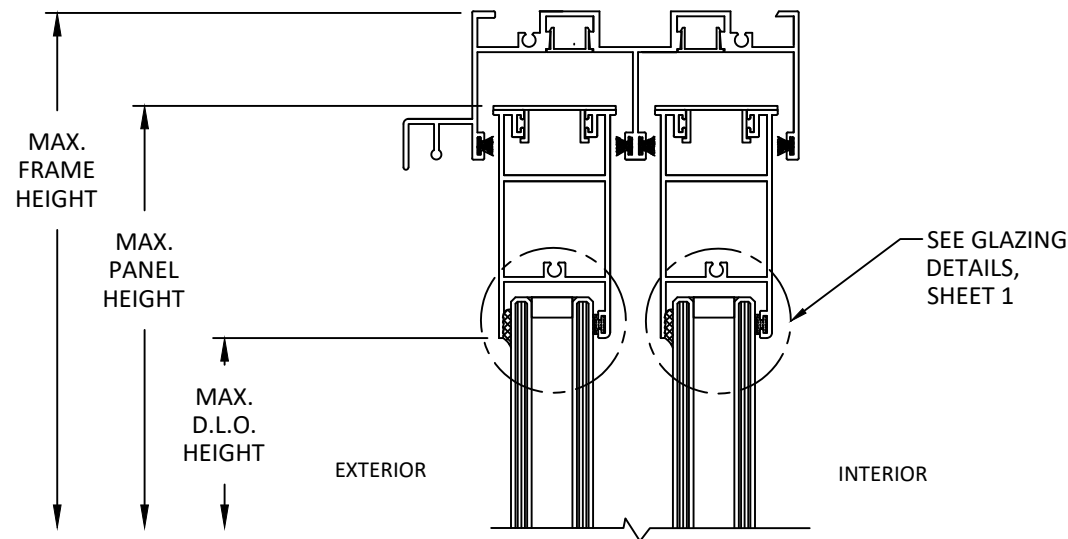
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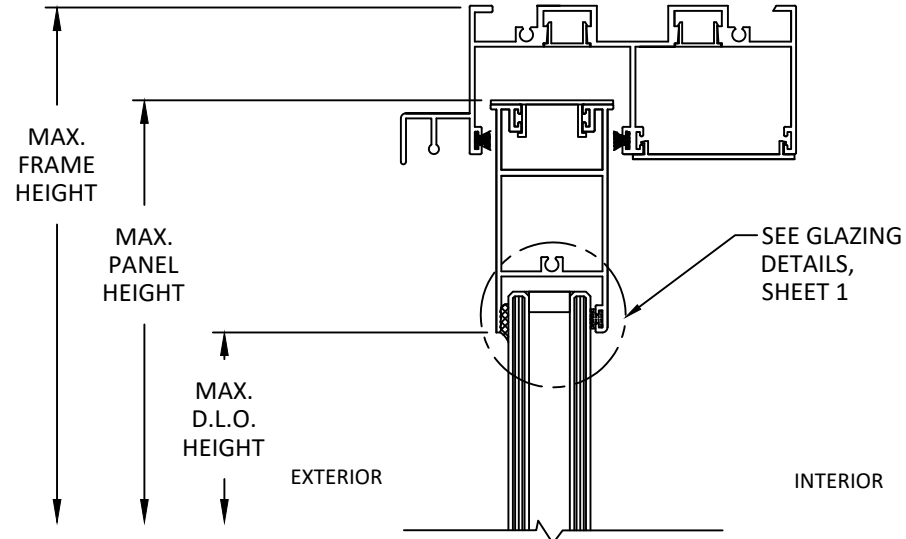
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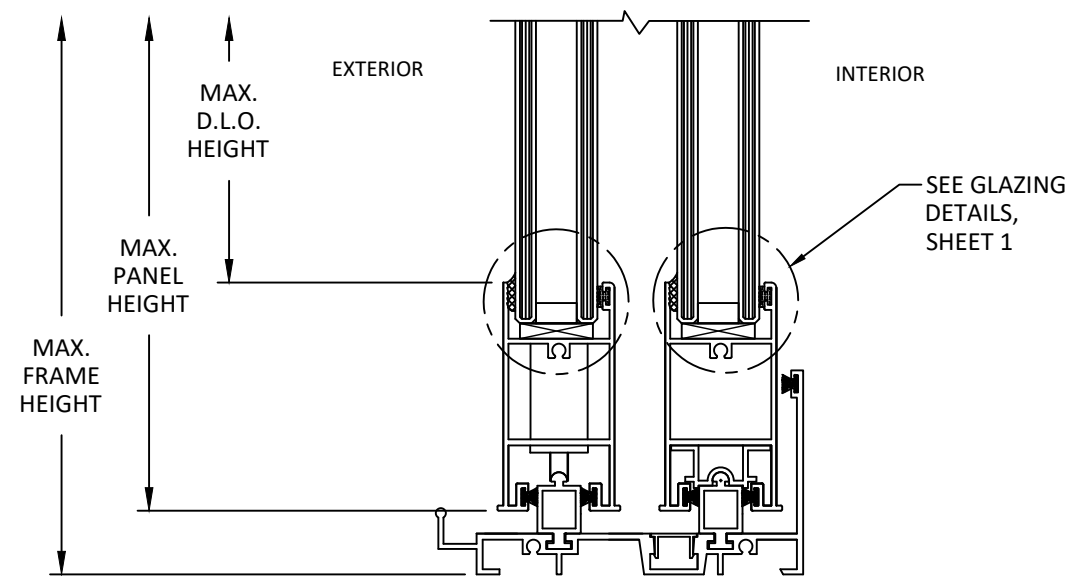
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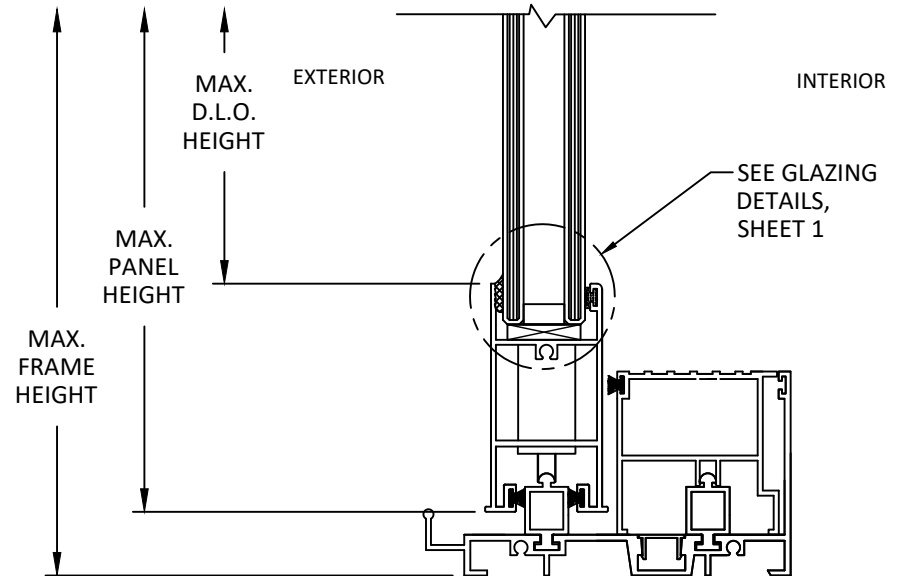
**A**  
3 VERTICAL SECTION  
TYP. HEAD



**C**  
3 VERTICAL SECTION  
TYP. HEAD



**B**  
3 VERTICAL SECTION  
TYP. SILL



**D**  
3 VERTICAL SECTION  
TYP. SILL



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VERTICAL SECTIONS

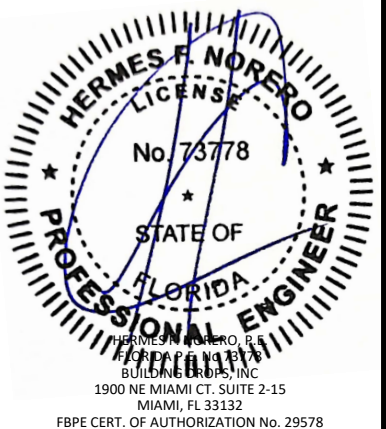
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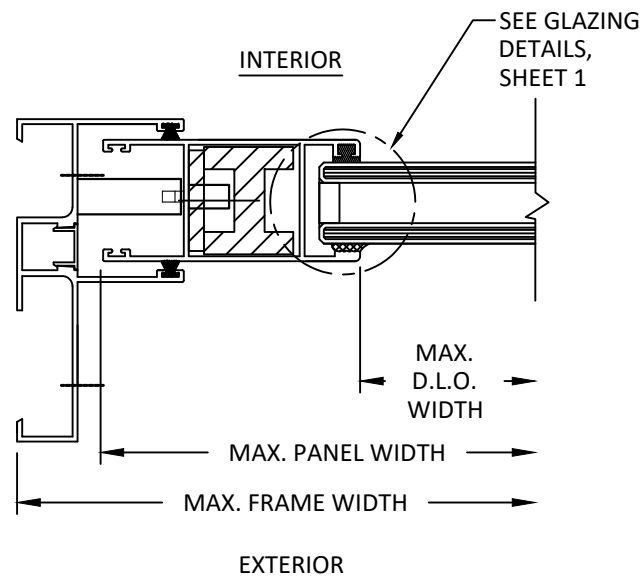
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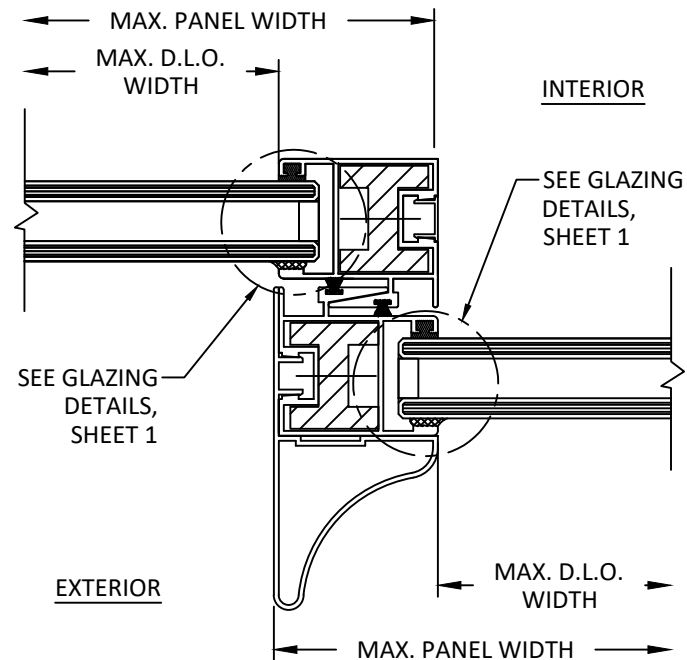
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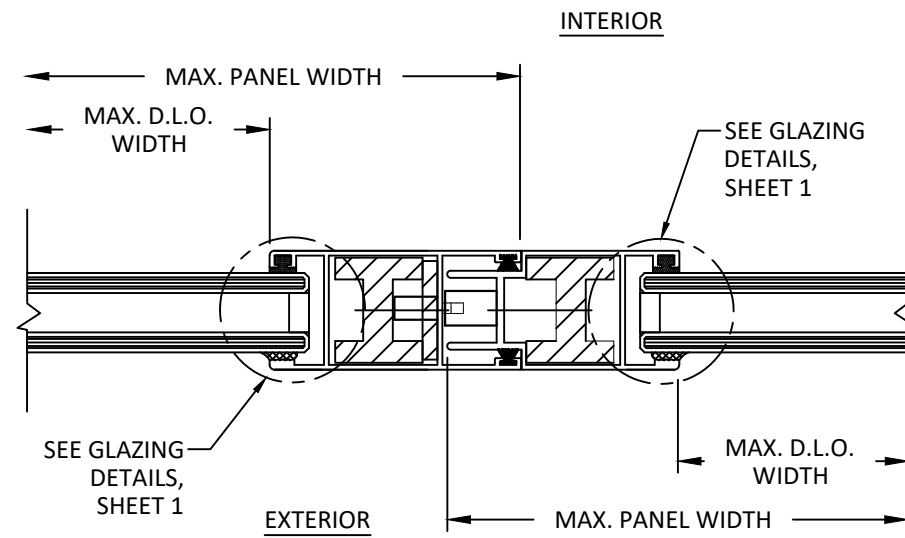
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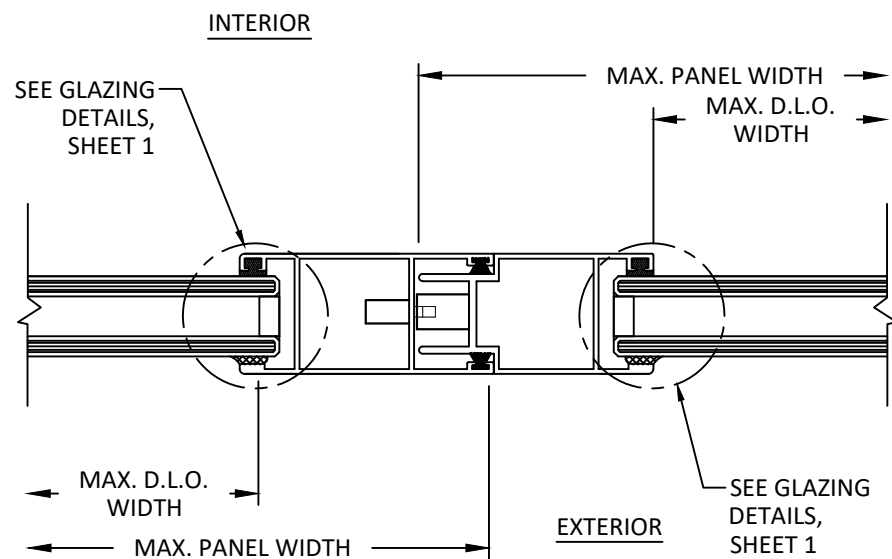
**A**  
**4** HORIZONTAL SECTION  
TYP. JAMB  
WITH REINFORCEMENT



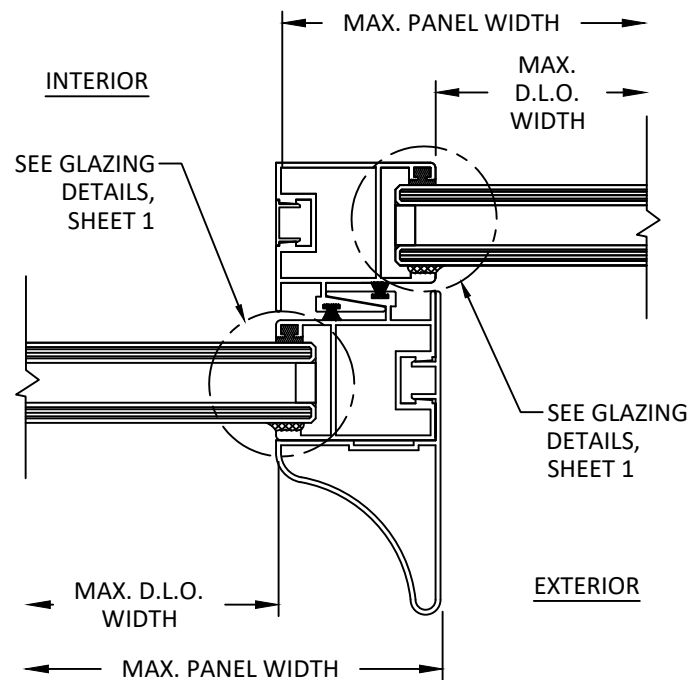
**B**  
**4** HORIZONTAL SECTION  
TYP. INTERLOCK  
WITH REINFORCEMENT



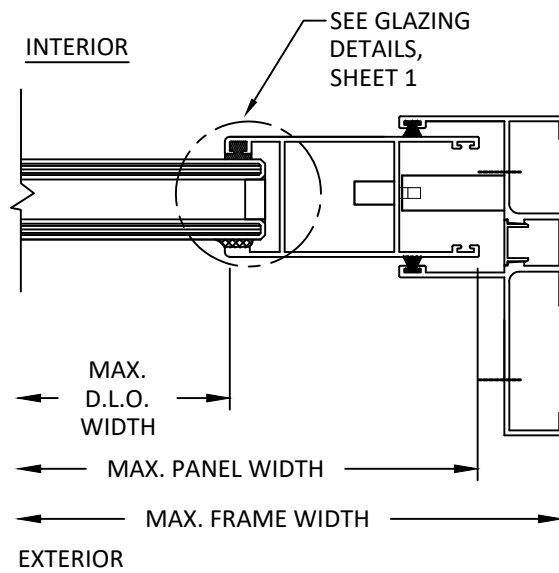
**C**  
**4** HORIZONTAL SECTION  
TYP. MEETING STILE  
WITH REINFORCEMENT



**D**  
**4** HORIZONTAL SECTION  
TYP. MEETING STILE



**E**  
**4** HORIZONTAL SECTION  
TYP. INTERLOCK



**F**  
**4** HORIZONTAL SECTION  
TYP. JAMB



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HORIZONTAL SECTIONS

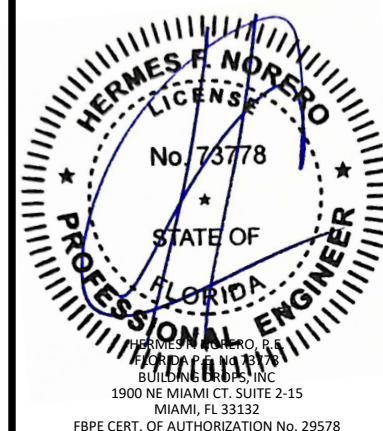
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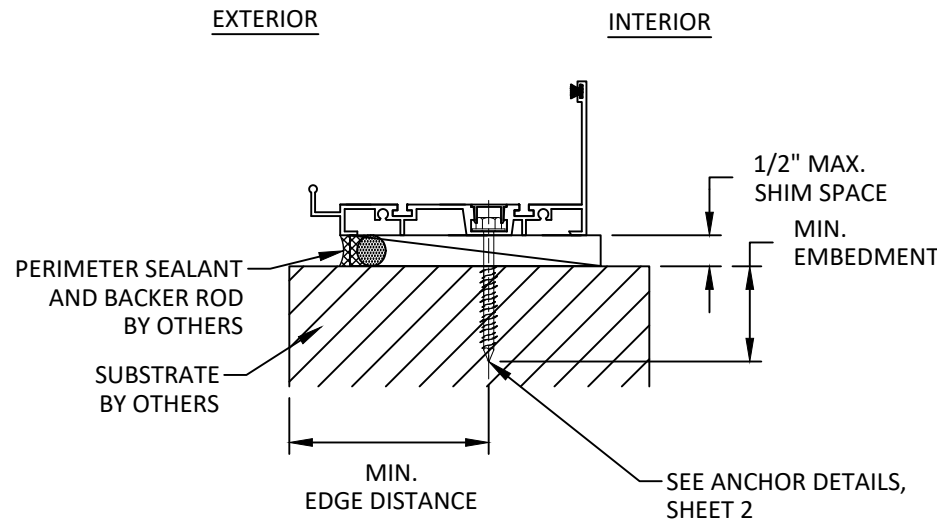
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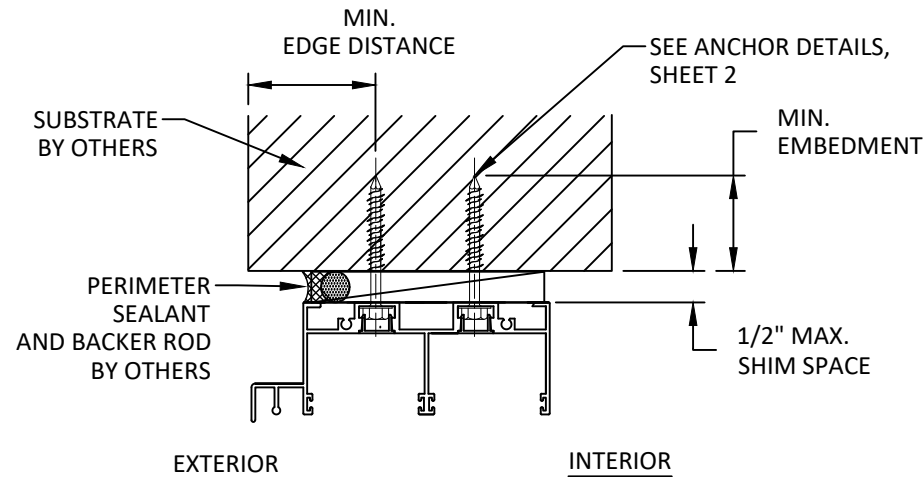
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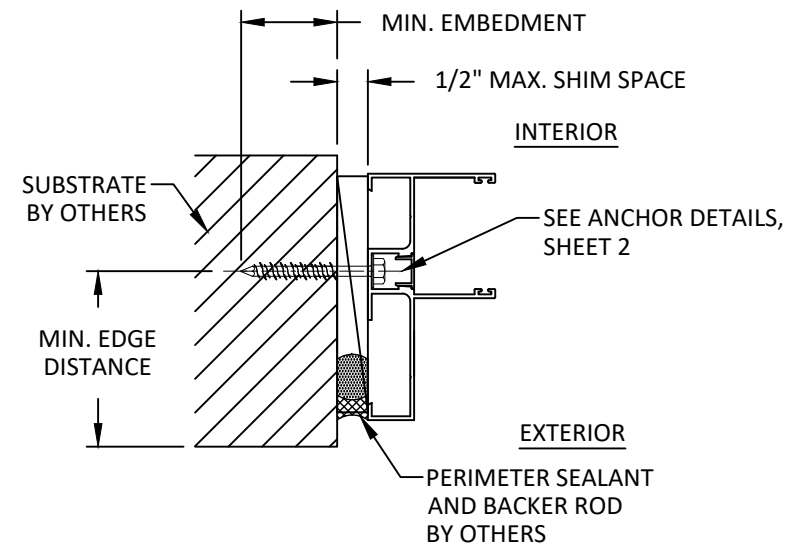
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**A**  
**5** **VERTICAL SECTION**  
TYP. SILL INSTALLATION  
THROUGH FRAME



**B**  
**5** **VERTICAL SECTION**  
TYP. HEAD INSTALLATION  
THROUGH FRAME



**C**  
**5** **VERTICAL SECTION**  
TYP. JAMB INSTALLATION  
THROUGH FRAME

ANCHOR SCHEDULE - DG-800 SERIES SLIDING GLASS DOOR				
INST. METHOD	ANCHOR TYPE	SUBSTRATE	MIN. EMBEDMENT	MIN. EDGE DISTANCE
THROUGH FRAME	#14 WOOD SCREW	WOOD (S.G. = 0.55)	1.50"	1.875"
	1/4" SELF-TAPPING SCREW	MIN. 18 GA. STEEL (33KSI)/ ALUMINUM 1/8" MIN. THK. 6063-T5	THREE (3) THREADS MIN. PENETRATION BEYOND METAL FACE	0.50"
	1/4" DEWALT ULTRACON+	CONCRETE: f'c = 3000 PSI	1.75"	2.50"
		MASONRY: f'c = 2000 PSI HOLLOW BLOCK CMU (PER ASTM C-90)	1.25"	2.50"

**INSTALLATION NOTES:**

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN, UNLESS OTHERWISE SHOWN ON SHEET 5.
- 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 1/2 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 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.



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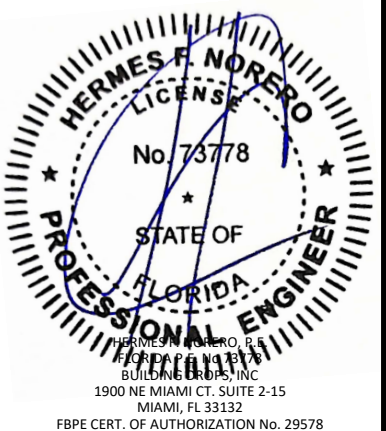
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