

# PH TECH CORP

## S-8385 SLIDING PATIO DOOR

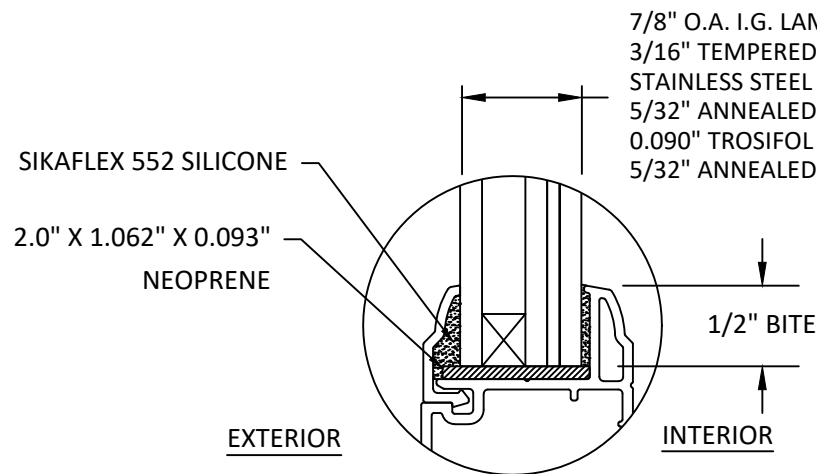
### (HVHZ)(IMPACT)



PH TECH CORP.  
724 BRICKWORKS DRIVE  
LEETSDALE, PA 15056  
418-833-3231

**GENERAL NOTES:**

- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE (FBC), **INCLUDING** HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
  - AAMA/WDMA/CSA 101/I.S.2/A440-08/11
  - ASTM E1886-13A
  - ASTM E1996-17
  - TAS 201-94
  - TAS 202-94
  - TAS 203-94
- ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X AND METAL 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.
- 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** TO PROTECT THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE IN WIND ZONE 4 OR LOWER.
- FRAME MATERIAL: UPVC
- GLASS MEETS THE REQUIREMENTS OF ASTM E1300. SEE GLAZING DETAILS ON SHEET 1.
- DESIGNATIONS "X", "O" STAND FOR THE FOLLOWING:  
X: OPERABLE PANEL  
O: FIXED PANEL



7/8" O.A. I.G. LAM. GLASS CONSISTS OF:  
3/16" TEMPERED GLASS  
STAINLESS STEEL SPACER  
5/32" ANNEALED GLASS  
0.090" TROSIFOL PVB INTERLAYER BY KURARAY  
5/32" ANNEALED GLASS ENDUR SPACER

**GLAZING DETAIL A**

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2	ELEVATION AND ANCHOR LAYOUT
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5	ANCHOR DETAILS, ANCHOR SCHEDULE AND INSTALLATION NOTES

DESIGN PRESSURE TABLE			
CONFIGURATION	DESIGN PRESSURE	FRAME SIZES	MISSILE IMPACT RATING
XXO, OXX	+65/-65 PSF	143.5" x 95.5"	LARGE & SMALL MISSILE IMPACT, MISSILE LEVEL D

**NOTE:**  
POSITIVE DESIGN PRESSURE SHALL BE LIMITED TO 61.3 PSF WHEN RETRACTABLE SCREEN SYSTEM IS INSTALLED.  
POSITIVE DESIGN PRESSURE IS 65 PSF WHEN RETRACTABLE SCREEN SYSTEM IS **NOT** INSTALLED.

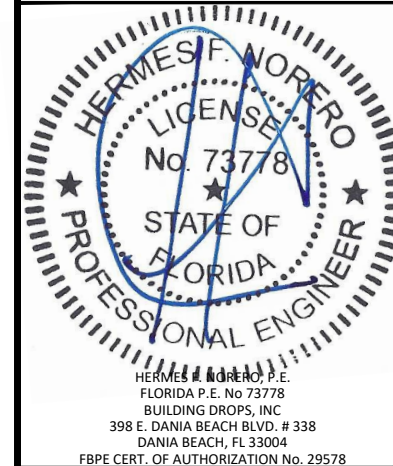
- GLAZING NOTES:**
- GLASS TYPE COMPLIES WITH ASTM E1300 & FBC SAFETY REQUIREMENTS.
  - SETTING BLOCKS TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36" AS PER FBC CHAPTER 24.
  - SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN FBC CHAPTER 24.
  - GLASS TYPE SHALL COMPLY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

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(HVHZ)(IMPACT)  
GENERAL NOTES AND GLAZING DETAILS

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REMARKS	BY	DATE

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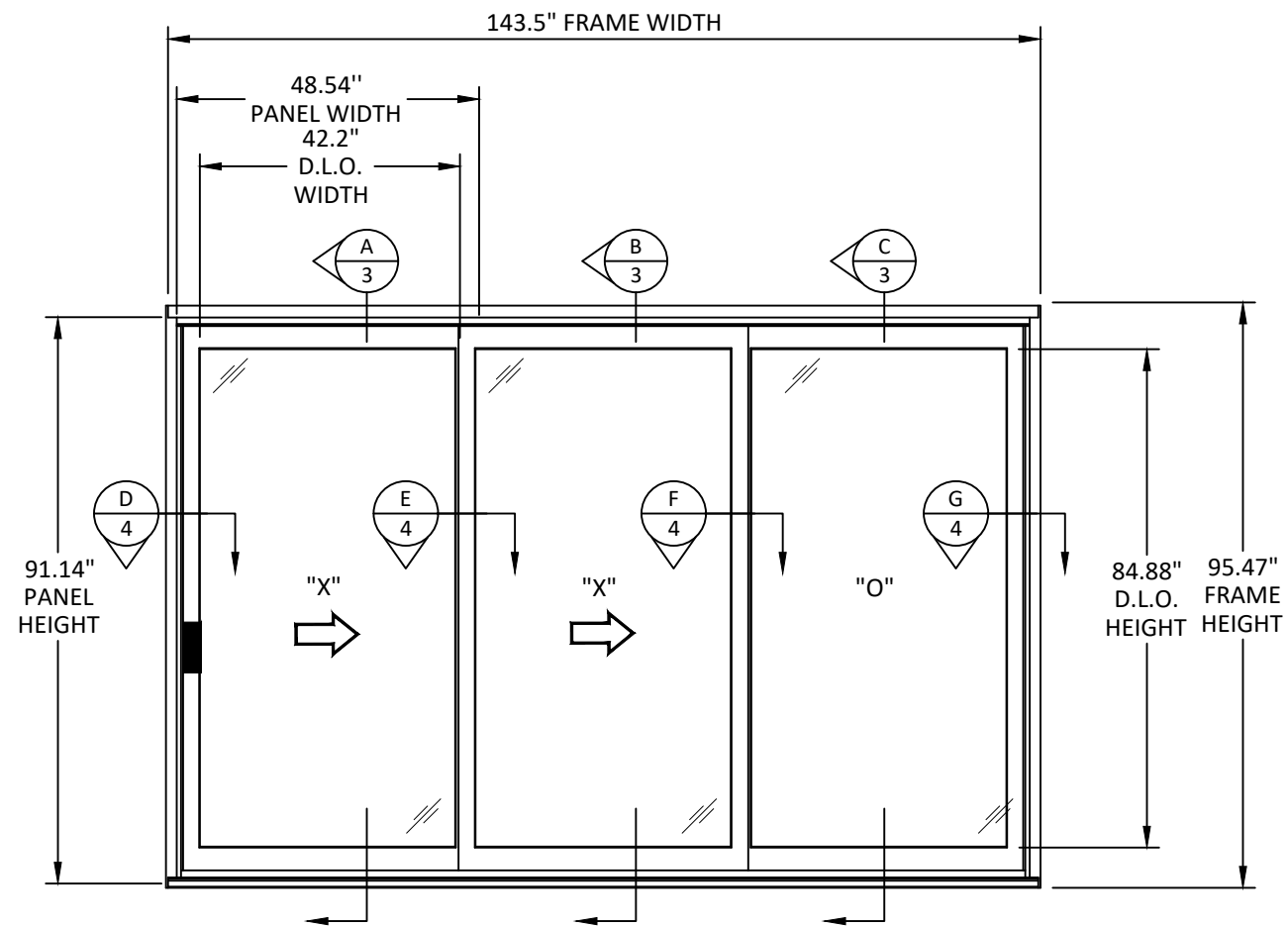
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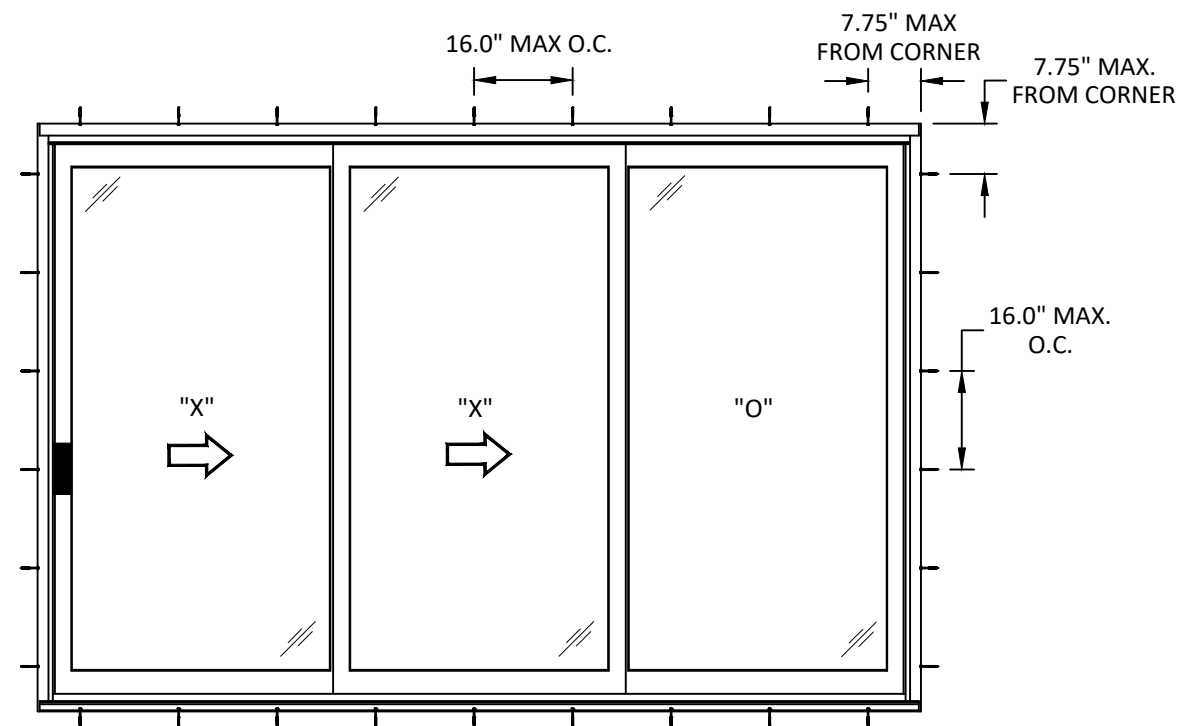
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**ELEVATION**  
SLIDING DOOR



**ANCHOR LAYOUT**  
SLIDING DOOR  
THROUGH FRAME  
(OR STRAP ANCHOR AT SILL)

**NOTE:**  
FOR MORE ANCHOR INFORMATION (INSTALLATION TYPE, SPACING, QUANTITY, ANCHOR TYPE, QUALIFIED SUBSTRATES) SEE SHEET 5.



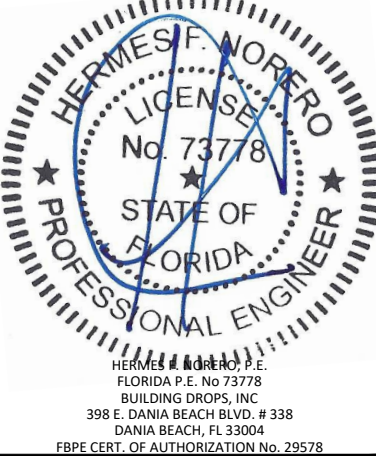
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ELEVATION AND ANCHOR LAYOUT

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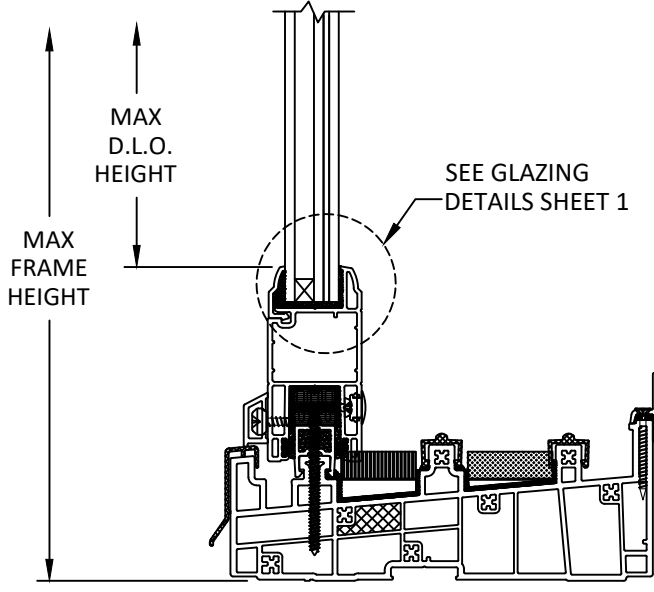
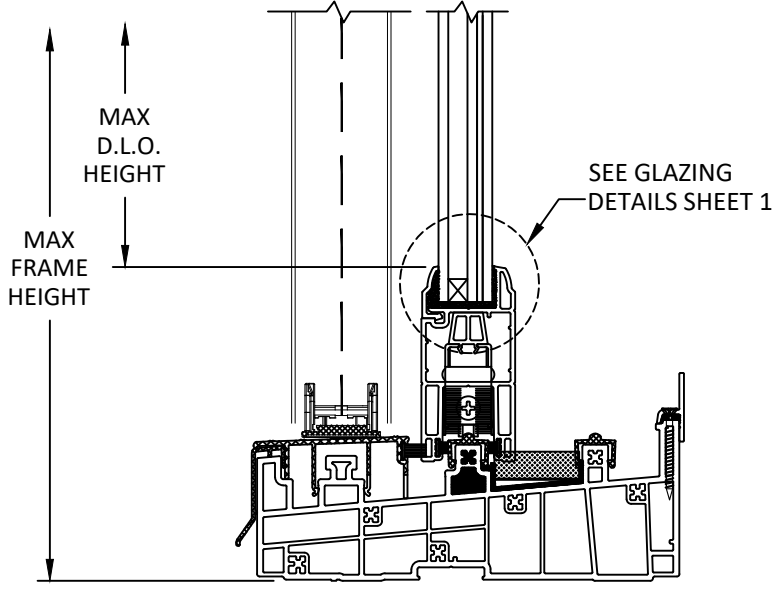
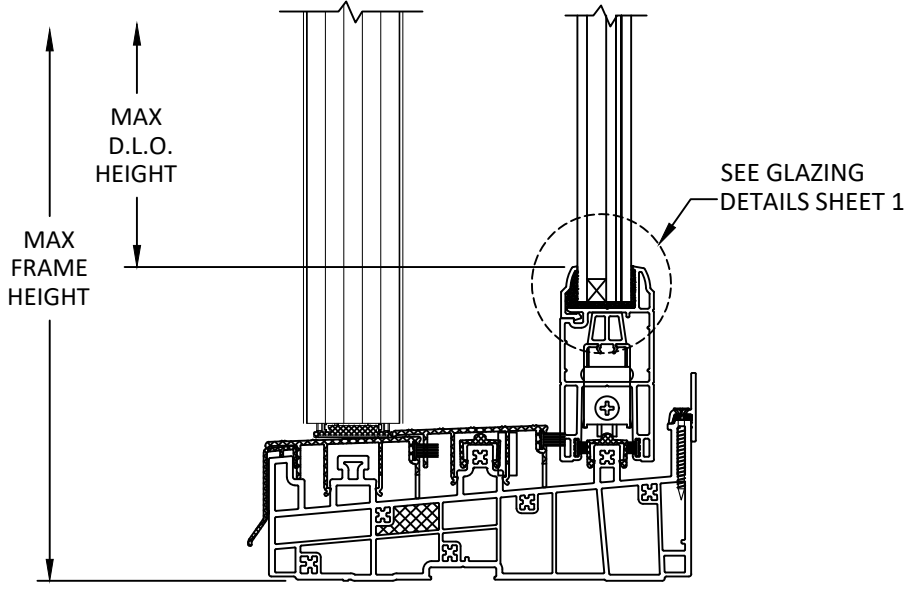
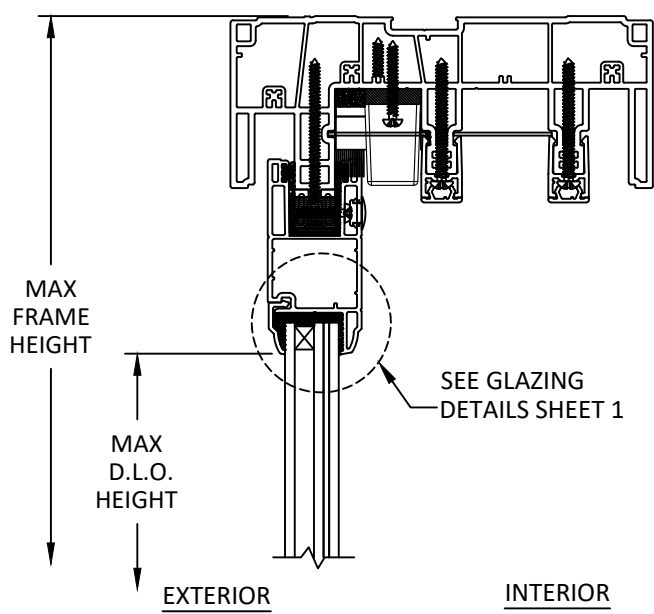
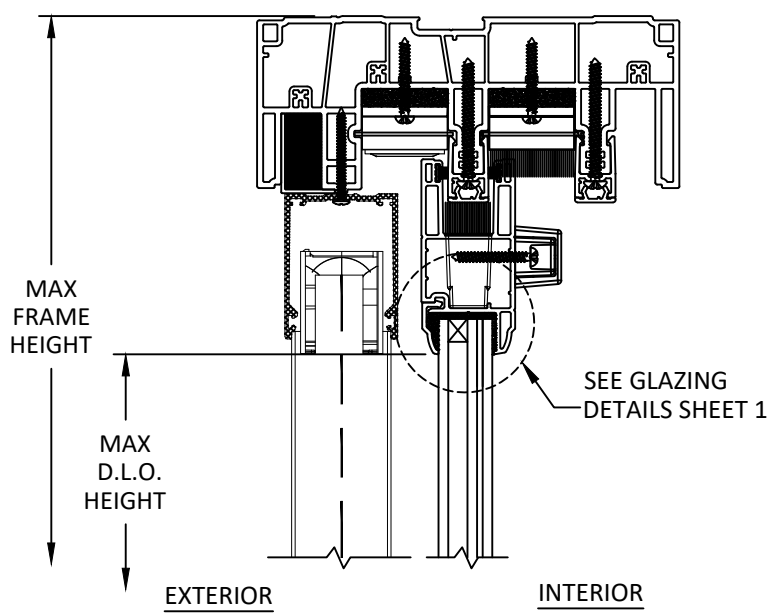
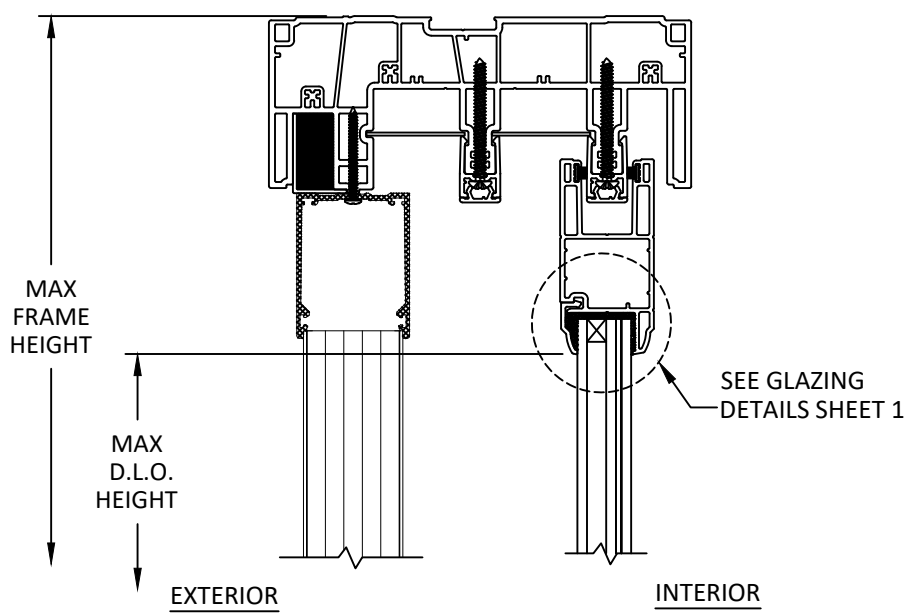
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PH TECH CORP.  
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**A**  
**3**

**VERTICAL SECTION**

OPERABLE PANEL

**B**  
**3**

**VERTICAL SECTION**

OPERABLE PANEL

**C**  
**3**

**VERTICAL SECTION**

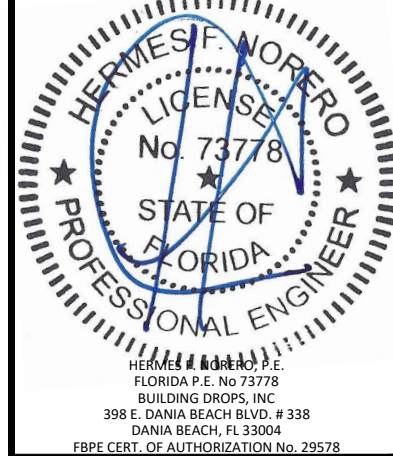
FIXED PANEL

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VERTICAL SECTIONS

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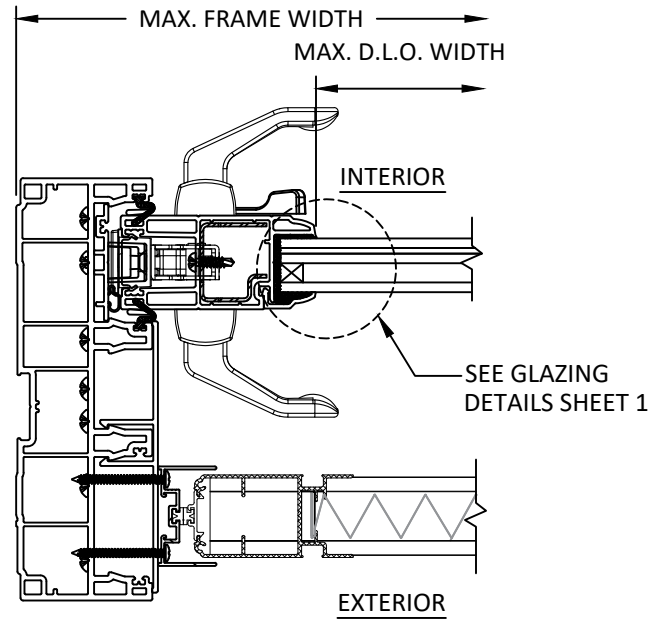
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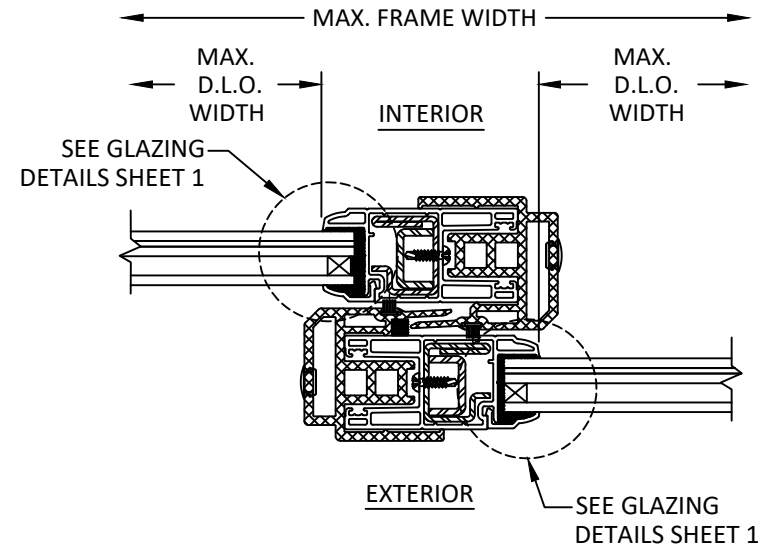
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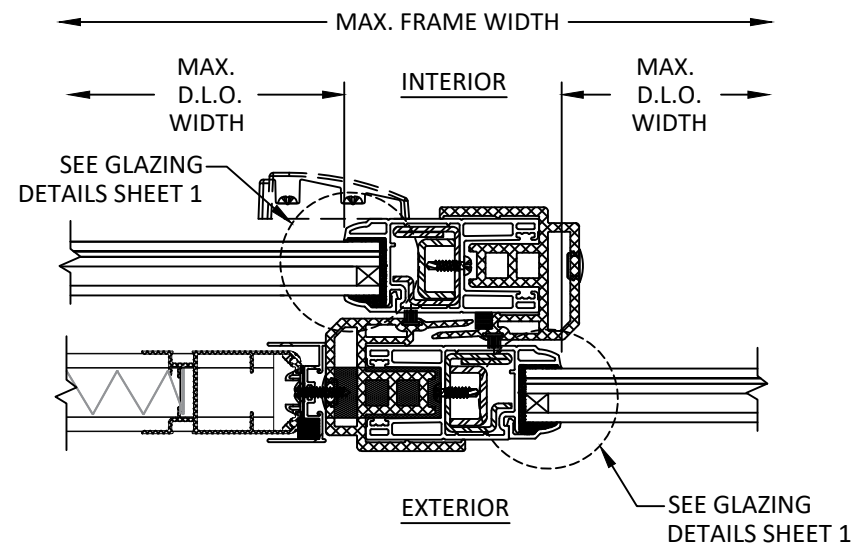
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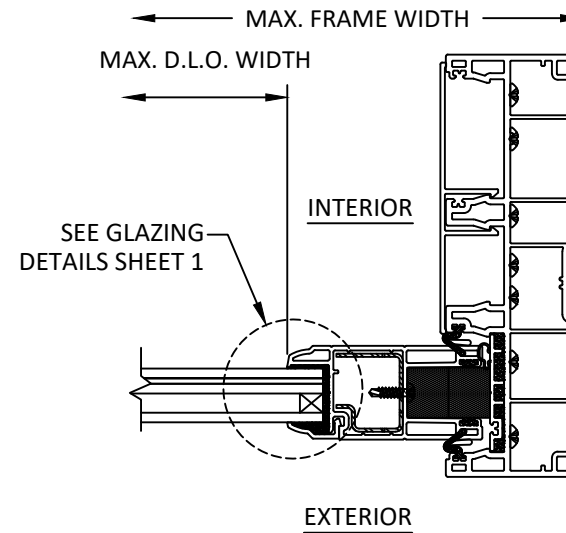
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**4** **HORIZONTAL SECTION**  
LOCK JAMB



**E**  
**4** **HORIZONTAL SECTION**  
INTERLOCK



**F**  
**4** **HORIZONTAL SECTION**  
INTERLOCK



**G**  
**4** **HORIZONTAL SECTION**  
FIXED JAMB



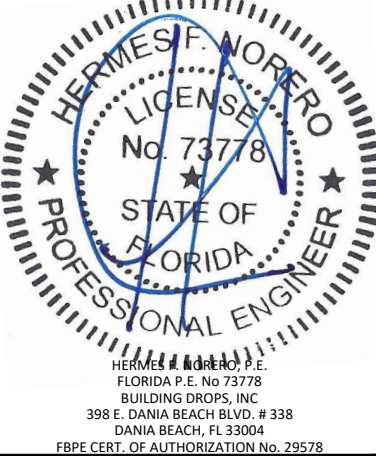
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HORIZONTAL SECTIONS

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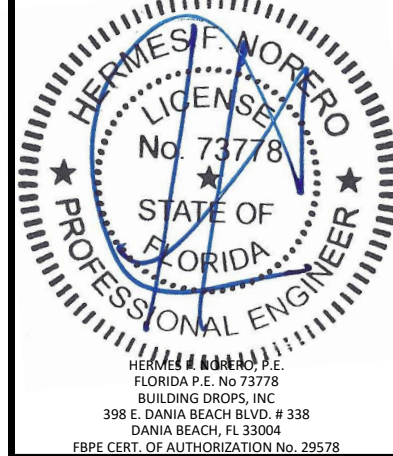
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ANCHOR DETAILS, ANCHOR SCHEDULE AND  
INSTALLATION NOTES

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FBPE CERT. OF AUTHORIZATION No. 29578

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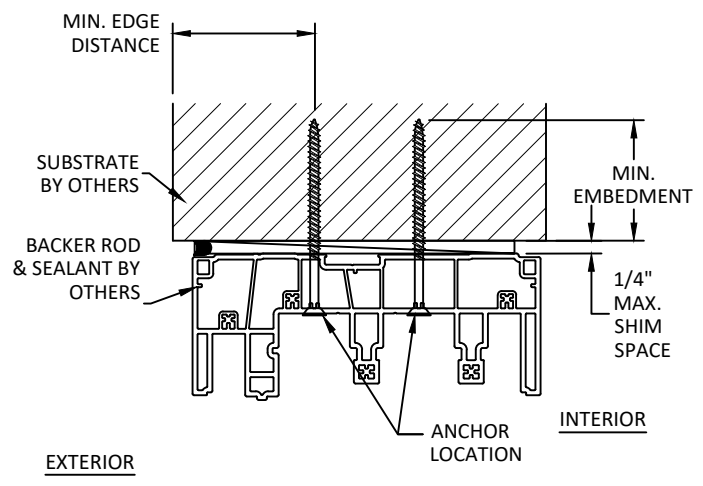
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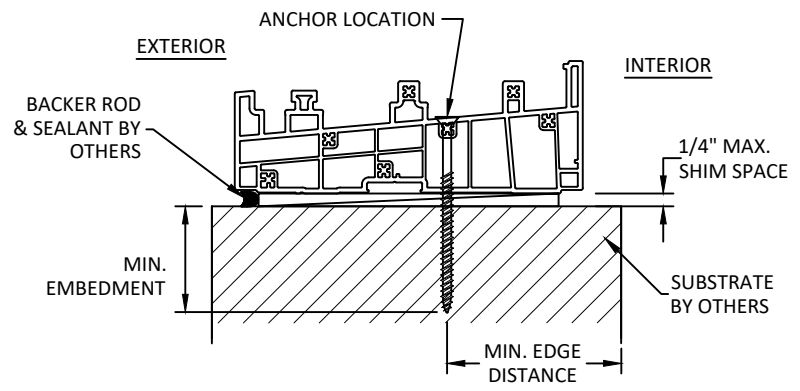
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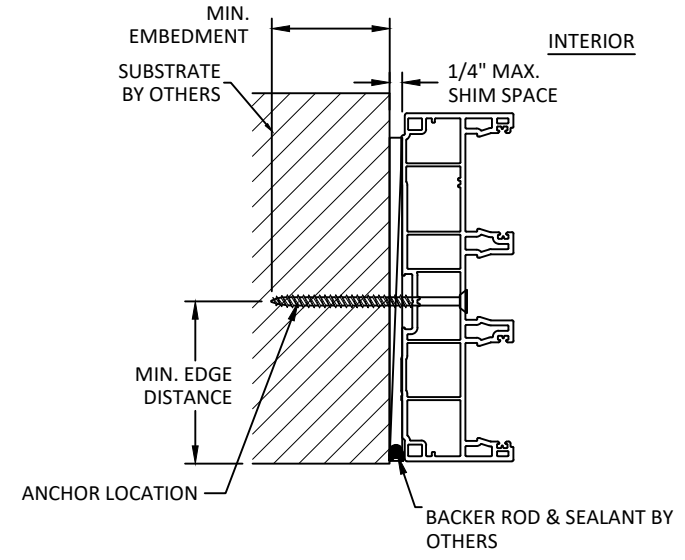
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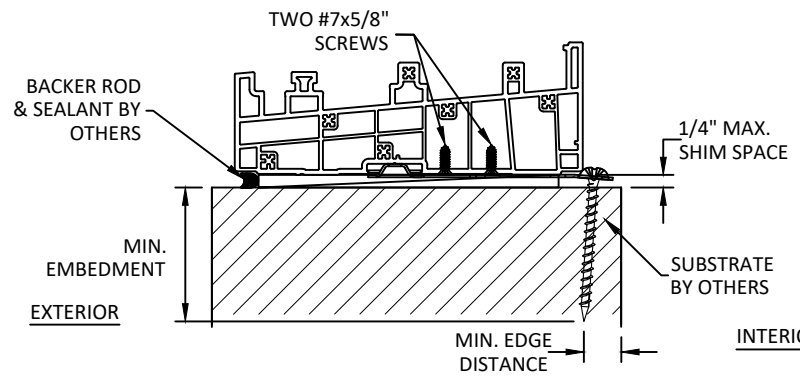
**A**  
**5** ANCHOR DETAIL  
THROUGH FRAME



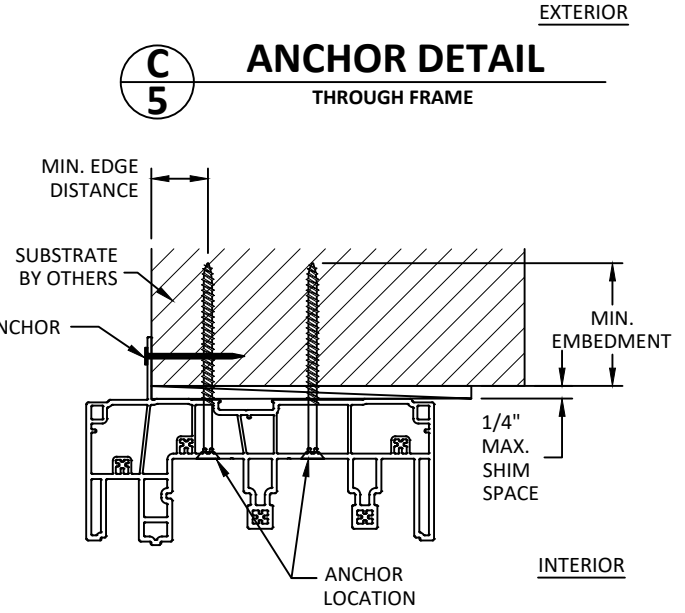
**B**  
**5** ANCHOR DETAIL  
THROUGH FRAME



**C**  
**5** ANCHOR DETAIL  
THROUGH FRAME



**D**  
**5** ANCHOR DETAIL  
STRAP ANCHOR



**E**  
**5** ANCHOR DETAIL  
OPTIONAL NAIL FIN

NOTE:  
NAIL FIN IS OPTIONAL IN ADDITION TO THE THROUGH OR STRAP ANCHOR

FOR NAIL FIN INSTALLATION:  
USE #11 GALVANIZED STEEL NAILS,  
#6D GALVANIZED STEEL NAILS, OR  
#6 WOOD SCREWS  
8" FROM FIN CORNERS  
7.25" O.C.

INSTALLATION NOTES:

- TWO (2) INSTALLATION ANCHORS ARE REQUIRED SHOWN AT HEAD .
- ONE (1) INSTALLATION ANCHOR IS REQUIRED AS SHOWN AT JAMB & SILL.
- 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.
- 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 ±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 ANCHOR LOCATION WHERE SPACE BETWEEN PRODUCT AND STRUCTURE IS 1/16 INCH OR GREATER. MAXIMUM ALLOWABLE SHIM STACK IS NOT TO EXCEED 1/4 INCH. ALL SHIMS ARE TO BE LOADED BEARING, 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	MIN. EMBEDMENT	MIN. EDGE DISTANCE
THROUGH FRAME	2X WOOD MIN. S.G.= 0.55	#10 WOOD SCREW	1.500	0.750
	GROUT FILLED CMU PER ASTM C-90 W/ MIN. f'c=2,000 PSI	3/16 ITW TAPCON (CARBON OR STAINLESS STEEL)	1.000	2.500
	CONCRETE W/ MIN. f'c = 3,000 PSI		1.250	2.500
ANCHOR STRAP	METAL: 18 GAUGE STEEL, MIN. Fy = 33 KSI	#10-24 GR. 5 SMS OR SELF-DRILLING SCREW	3 THREADS MIN PENETRATION BEYOND METAL	0.750
	2X WOOD MIN. S.G.= 0.55	#10 WOOD SCREW	1.500	0.750
	CONCRETE W/ MIN. f'c = 3,000 PSI	3/16 ITW TAPCON (CARBON OR STAINLESS STEEL)	1.250	2.500