

FRONTLINE BUILDING PRODUCT

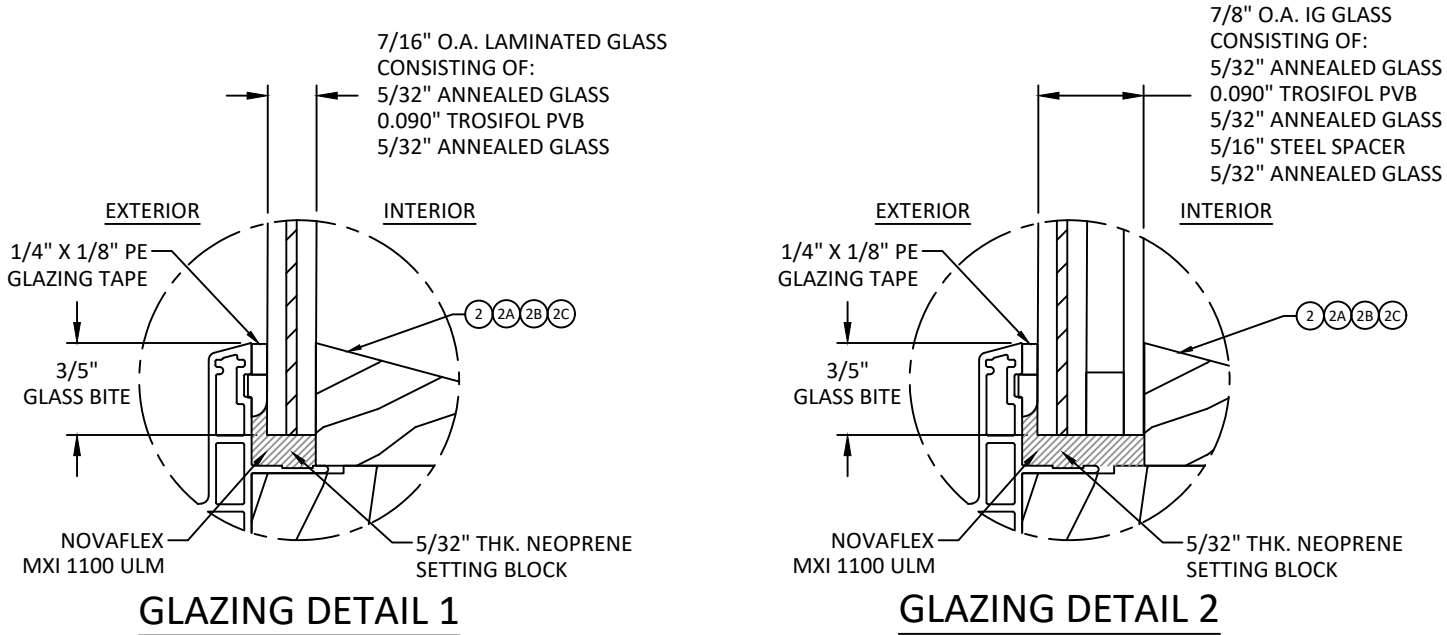
350 SERIES CLAD HP DIRECT SET (HVHZ)(IMPACT)

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:
 - AAMA/WDMA/CSA 101/I.S.2/A440-17
 - 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-T5) CLAD EXTERIOR OVER WOOD CORE
- GLASS MEETS THE REQUIREMENTS OF ASTM E 1300 GLASS CHARTS. SEE SHEET 1 FOR GLAZING DETAILS.

DESIGN RATING			
OVERALL SIZE		DESIGN PRESSURE	MISSILE IMPACT RATING
WIDTH	HEIGHT		
SEE SHEET 2-3		SEE SHEET 2-3	LMI/SMI

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GLAZING NOTES:

- GLASS TYPE COMPLIES WITH ASTM E1300 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\"
- D.L.O. AND DESIGN PRESSURES MAY NOT EXCEED MAX VALUES SHOWN HEREIN.



FRONTLINE BUILDING PRODUCTS
610 JENSEN DRIVE
MEDFORD, WI 54451
PH: (715) 748-2288

TITLE:
350 SERIES CLAD HP DIRECT SET
(HVHZ) (IMPACT)

GENERAL NOTES &
GLAZING DETAILS

PREPARED BY:

BUILDING DROPS, INC.

1900 NE MIAMI CT. SUITE 2-15

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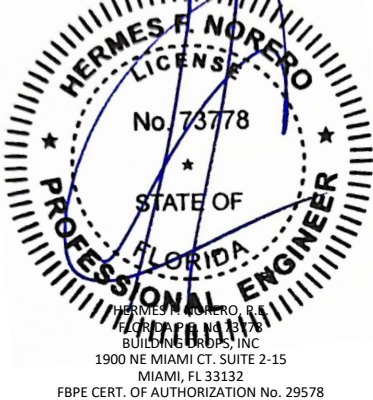
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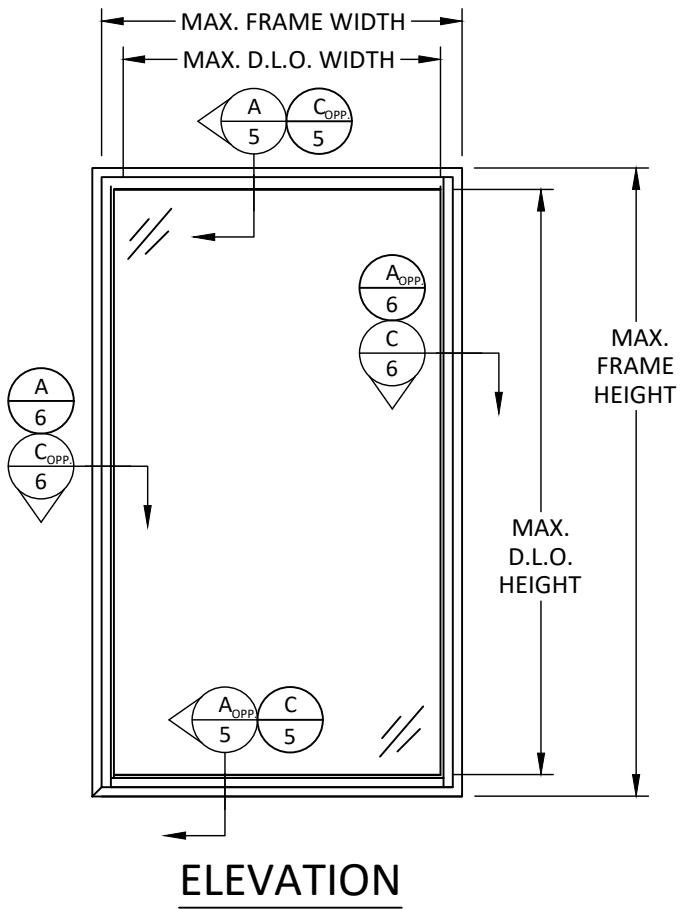
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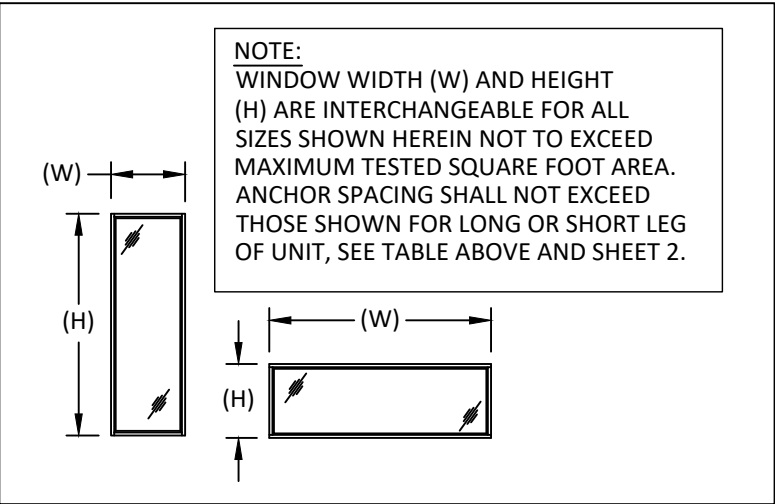


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SCALE:	NTS
DWG. #:	FBP002
SHEET:	1
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350 SERIES CLAD HP DIRECT SET - DESIGN PRESSURE TABLE (PSF)								
	FRAME WIDTH (IN.) (W)							
FRAME SPAN (IN.) (L)		36	42	48	54	60	66	72
	72	60.0	60.0	60.0	60.0	60.0	54.5	50.0
	78	60.0	60.0	60.0	60.0	60.0	54.5	50.0
	84	60.0	60.0	60.0	60.0	60.0	54.5	50.0
	90	60.0	60.0	60.0	60.0	60.0	54.5	-
	96	60.0	60.0	60.0	60.0	60.0	-	-
	102	60.0	60.0	60.0	60.0	60.0	-	-



LEGEND:
D.L.O. OVERALL SIZE:
- D.L.O. WIDTH: FRAME WIDTH - 4.24"
- D.L.O. HEIGHT: FRAME HEIGHT - 4.24"



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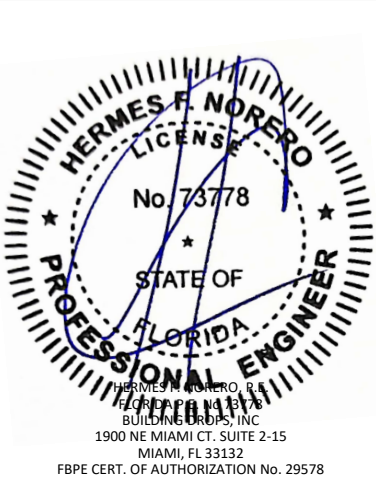
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ELEVATION & DESIGN PRESSURE TABLE

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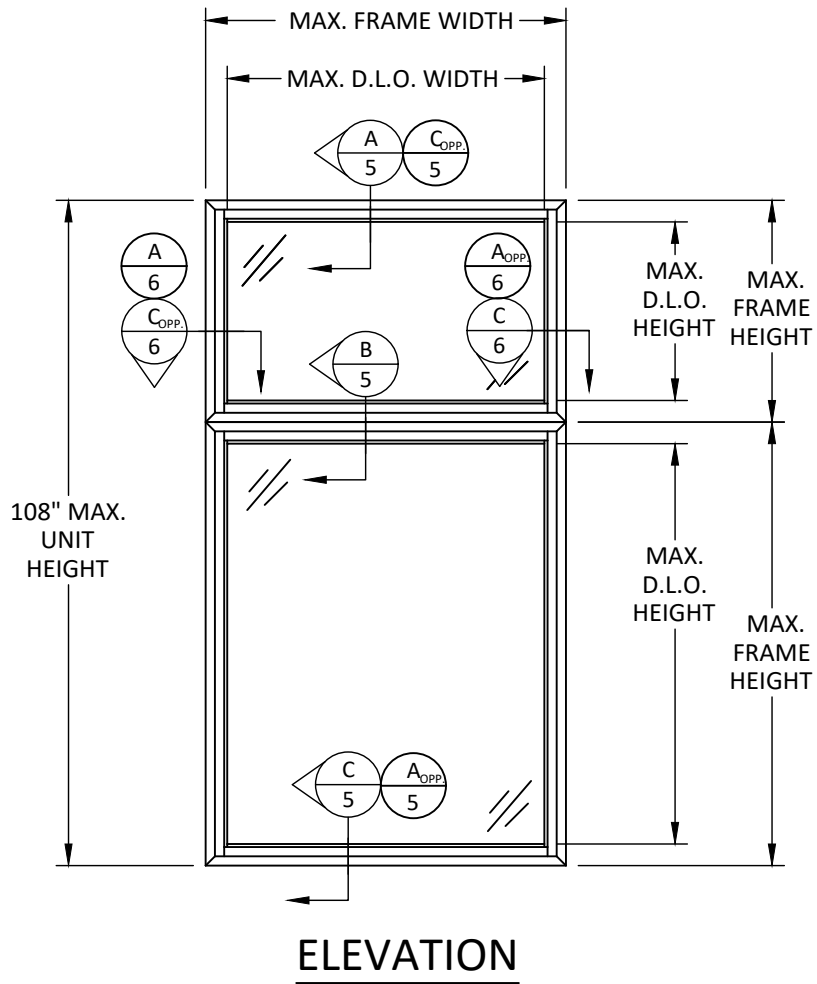
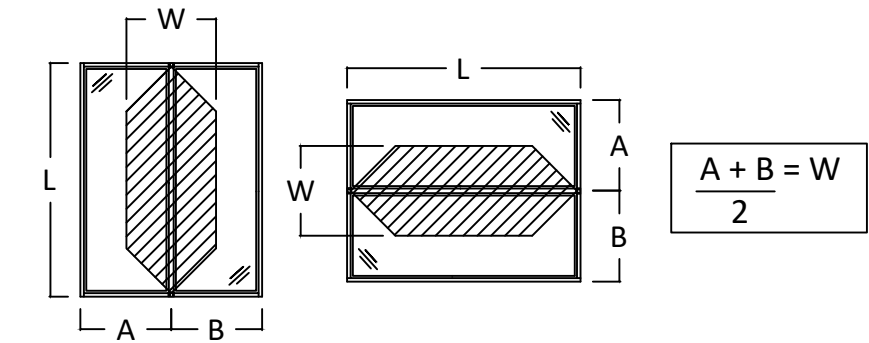
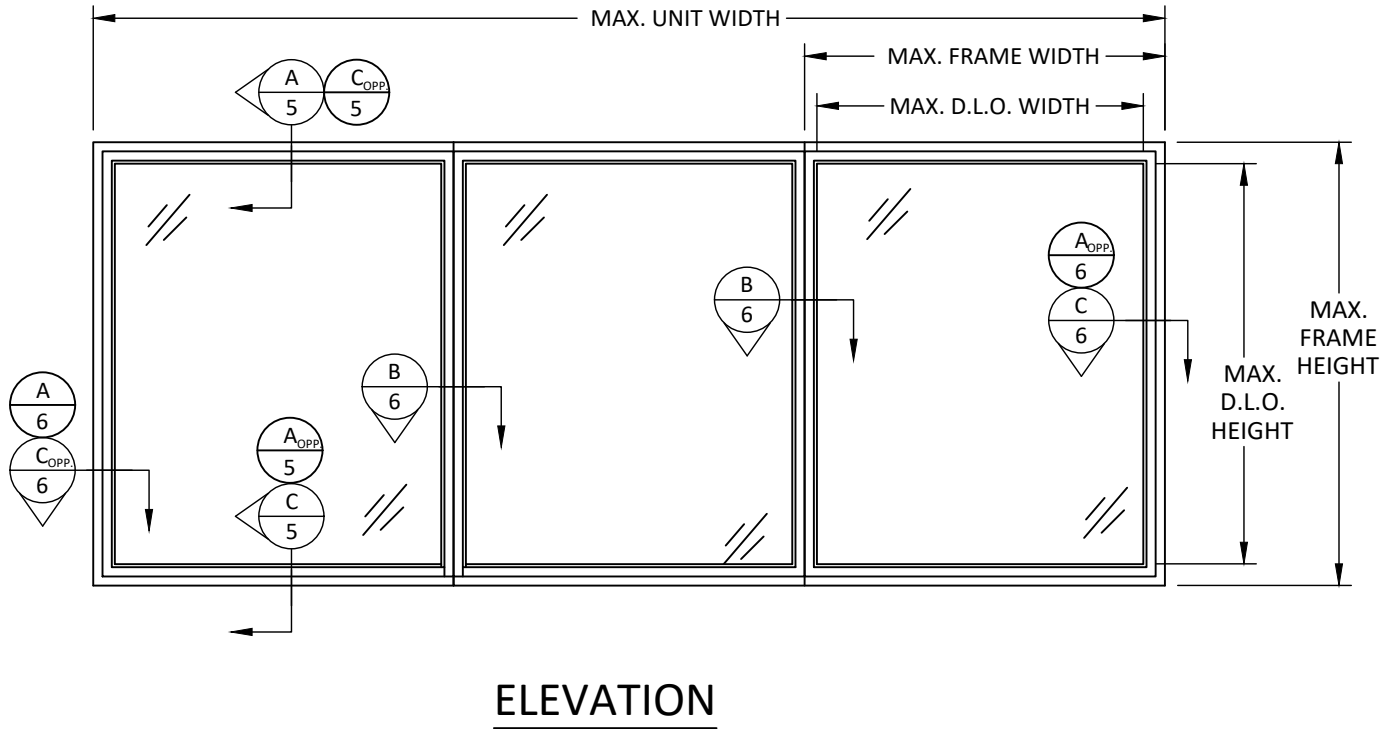
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350 SERIES CLAD HP DIRECT SET - DESIGN PRESSURE (PSF) TABLE MULLED UNITS										
	UNIT TRIBUTARY WIDTH (IN.) (W)									
UNIT SPAN (IN.) (L)	48	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
	54	60.0	60.0	60.0	60.0	60.0	60.0	60.0	59.5	-
	60	60.0	60.0	60.0	60.0	60.0	60.0	60.0	-	-
	66	60.0	60.0	60.0	60.0	60.0	-	-	-	-
	72	60.0	60.0	60.0	60.0	60.0	-	-	-	-

- NOTE:
- SEE DIAGRAM, FOR DETAILS ON HOW TO CALCULATE TRIBUTARY WIDTH.
 - DESIGN PRESSURE IS LIMITED TO THE MINIMUM DESIGN PRESSURE BETWEEN TABLES SHOWN ON SHEET 2 AND 3.
 - WHEN UNITS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF THE UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.



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PH: (715) 748-2288

TITLE: 350 SERIES CLAD HP DIRECT SET (HVHZ) (IMPACT)

ELEVATIONS & DESIGN PRESSURE TABLE FOR MULLED UNITS

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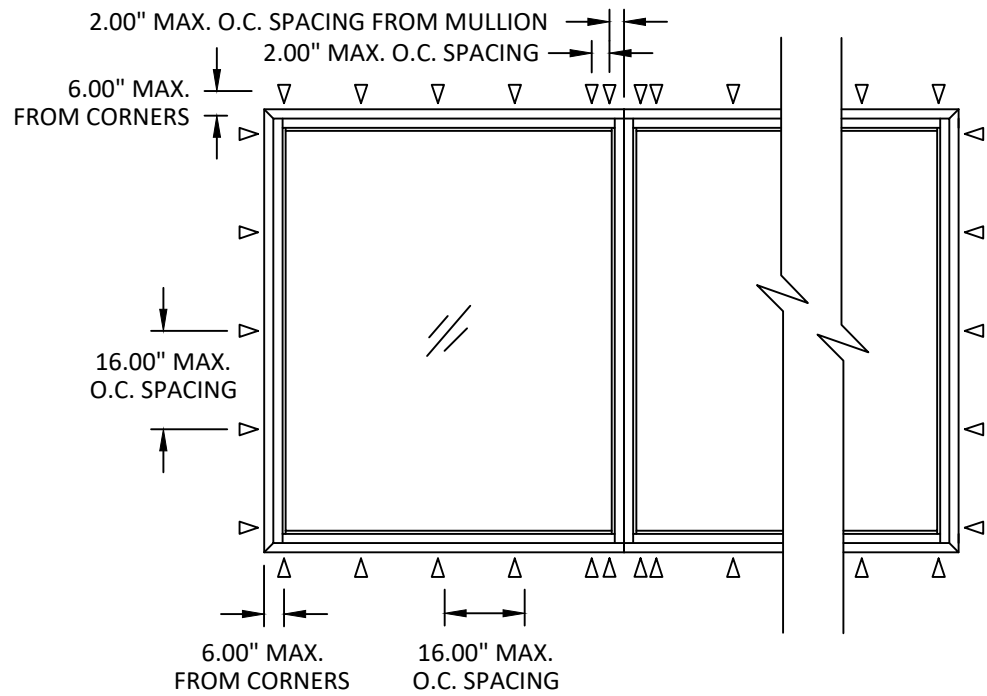
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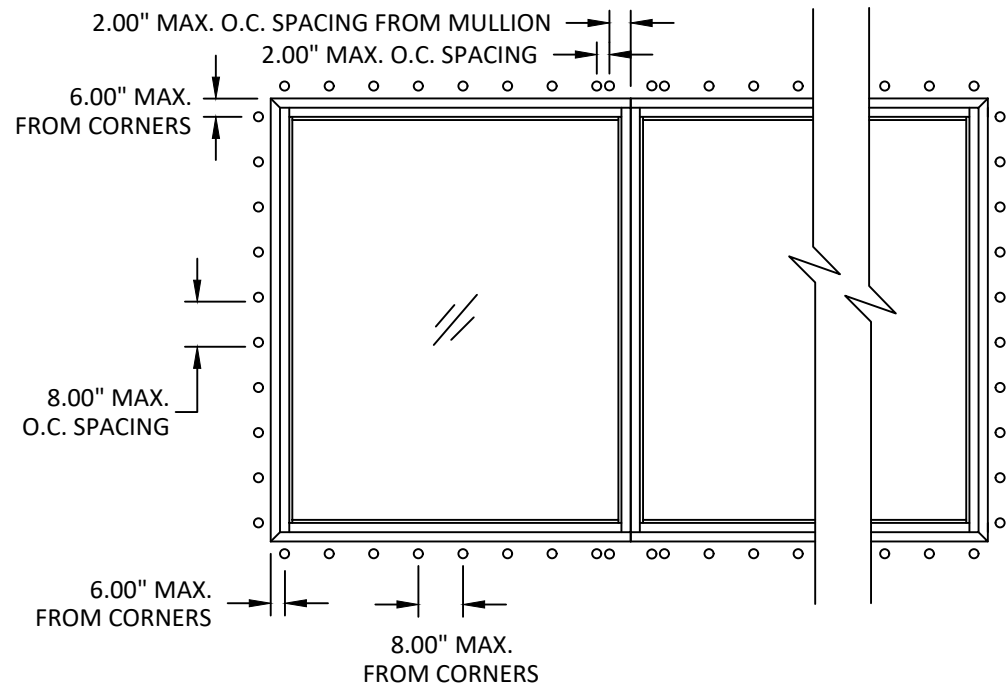


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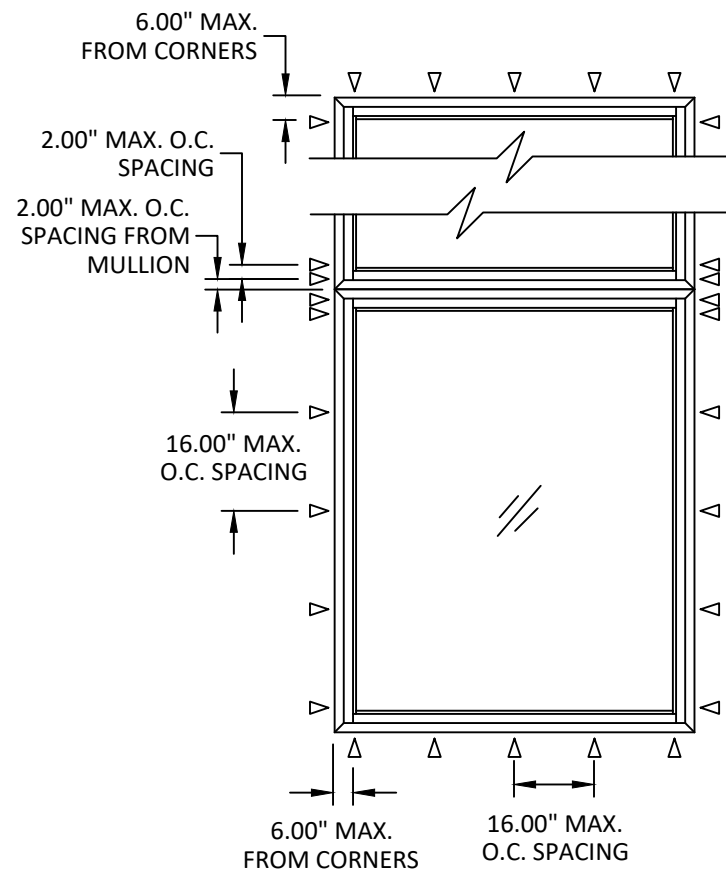
ANCHOR LAYOUT
THROUGH FRAME INSTALLATION



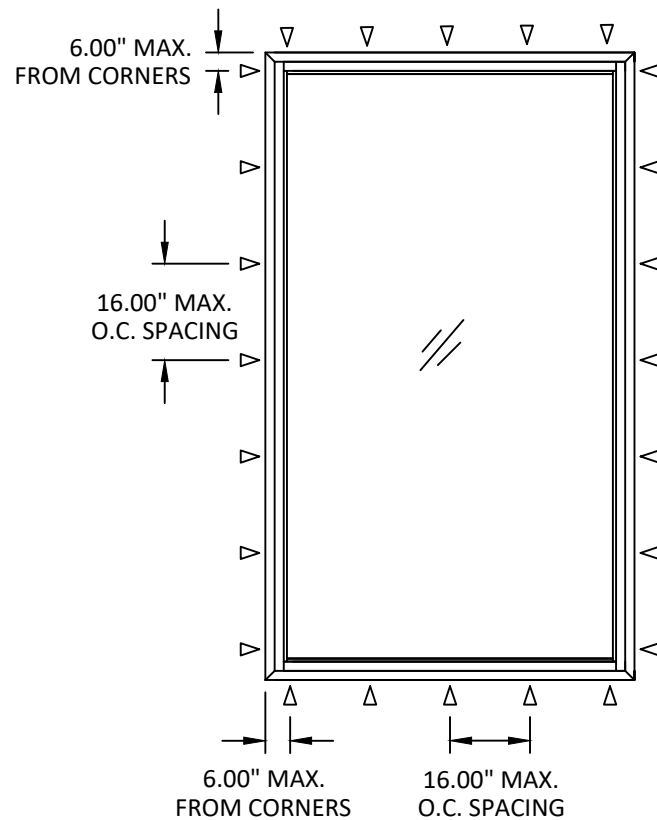
ANCHOR LAYOUT
FIN INSTALLATION

INSTALLATION LEGEND:

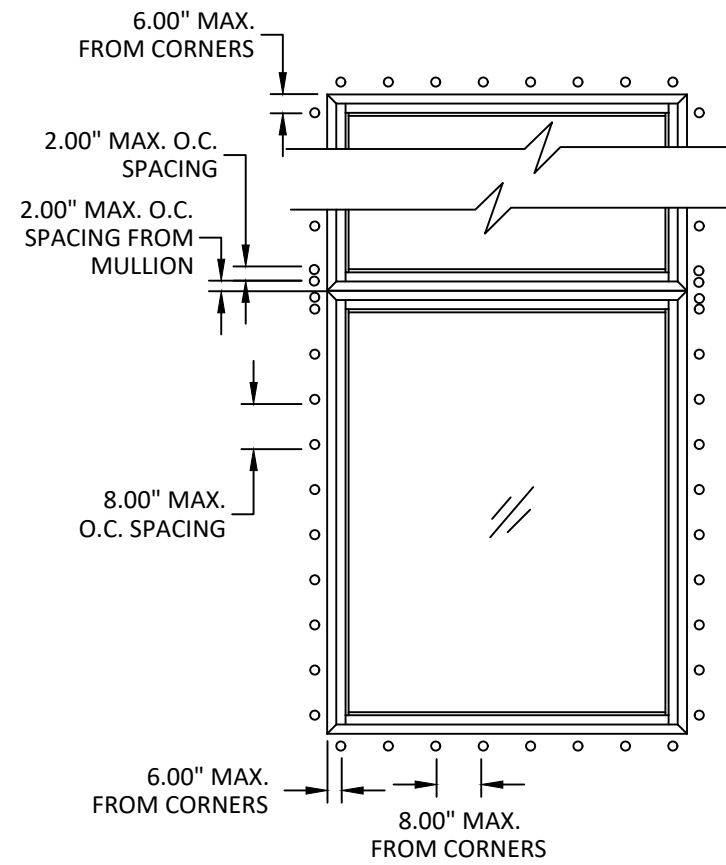
- FRAME INSTALL ANCHOR (SEE SHEET 7)
- FIN INSTALL ANCHOR (SEE SHEET 7)



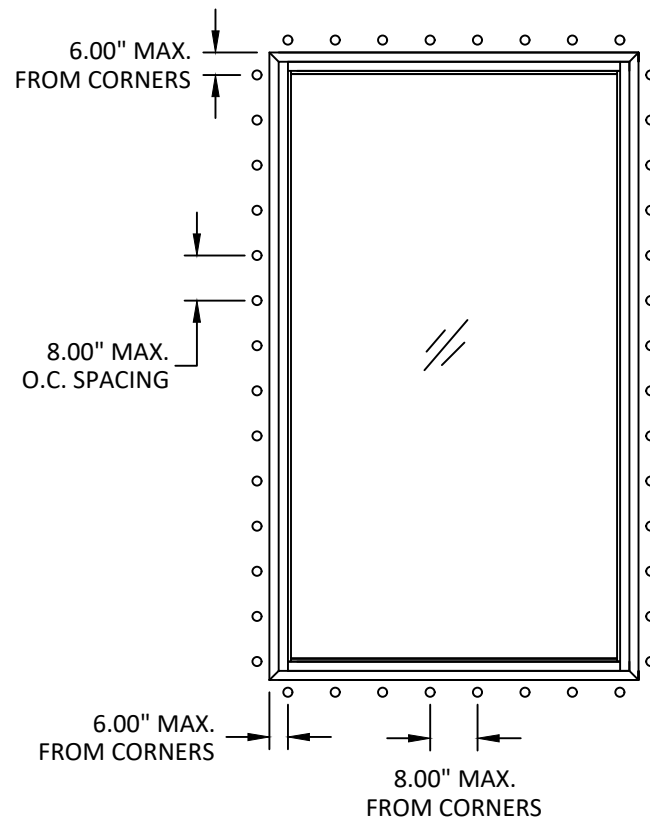
ANCHOR LAYOUT
THROUGH FRAME INSTALLATION



ANCHOR LAYOUT
THROUGH FRAME INSTALLATION



ANCHOR LAYOUT
FIN INSTALLATION



ANCHOR LAYOUT
FIN INSTALLATION



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ANCHOR LAYOUTS

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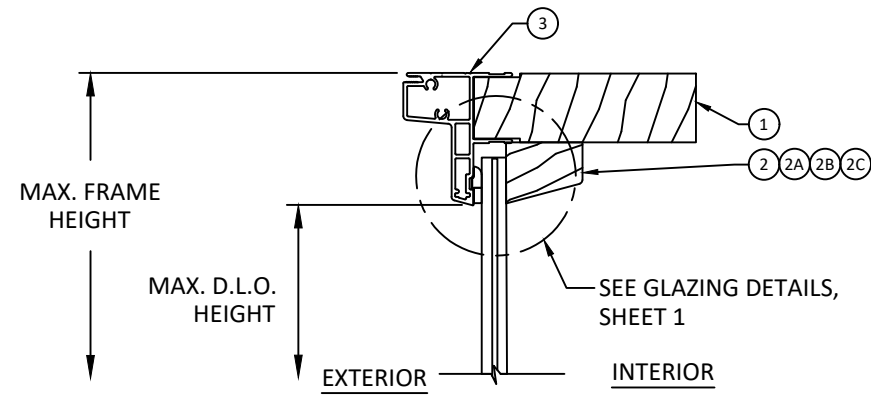
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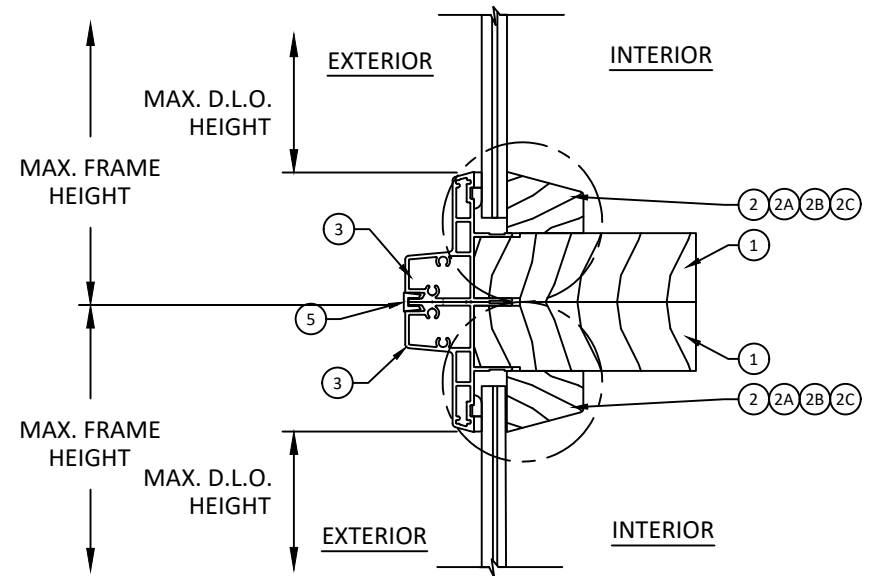


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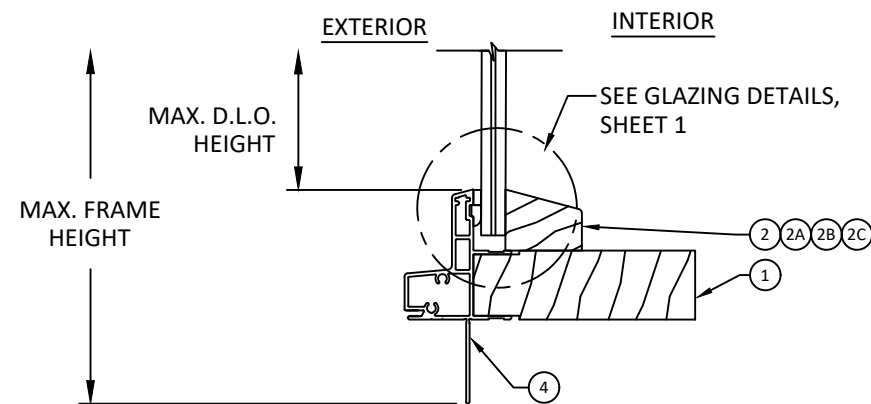
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A
5 VERTICAL SECTION
TYP. HEAD



B
5 VERTICAL SECTION
TYP. MULLED DETAIL



C
5 VERTICAL SECTION
TYP. SILL
FIN INSTALLATION



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VERTICAL SECTIONS

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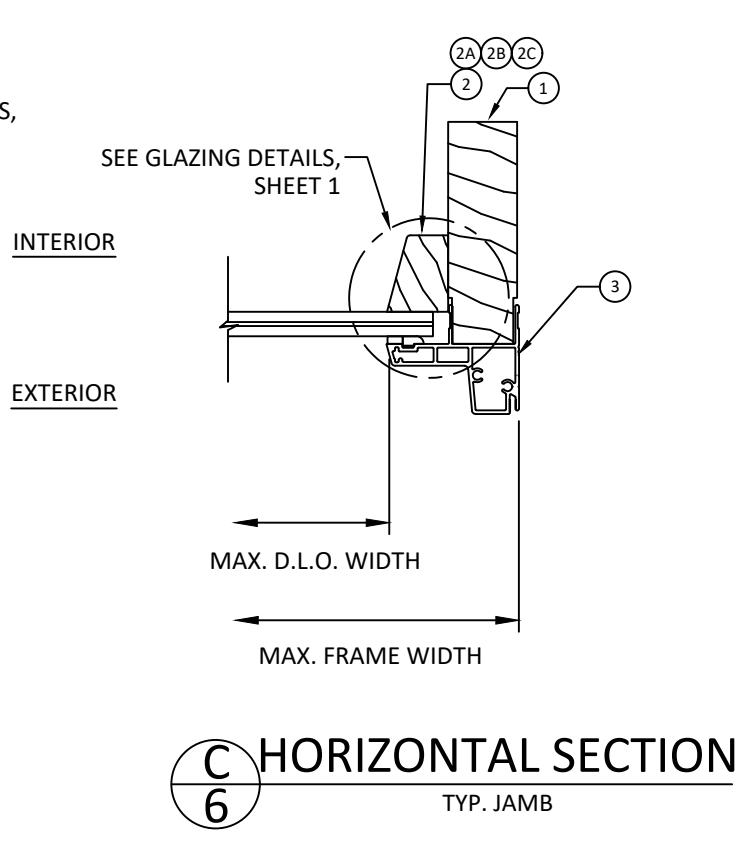
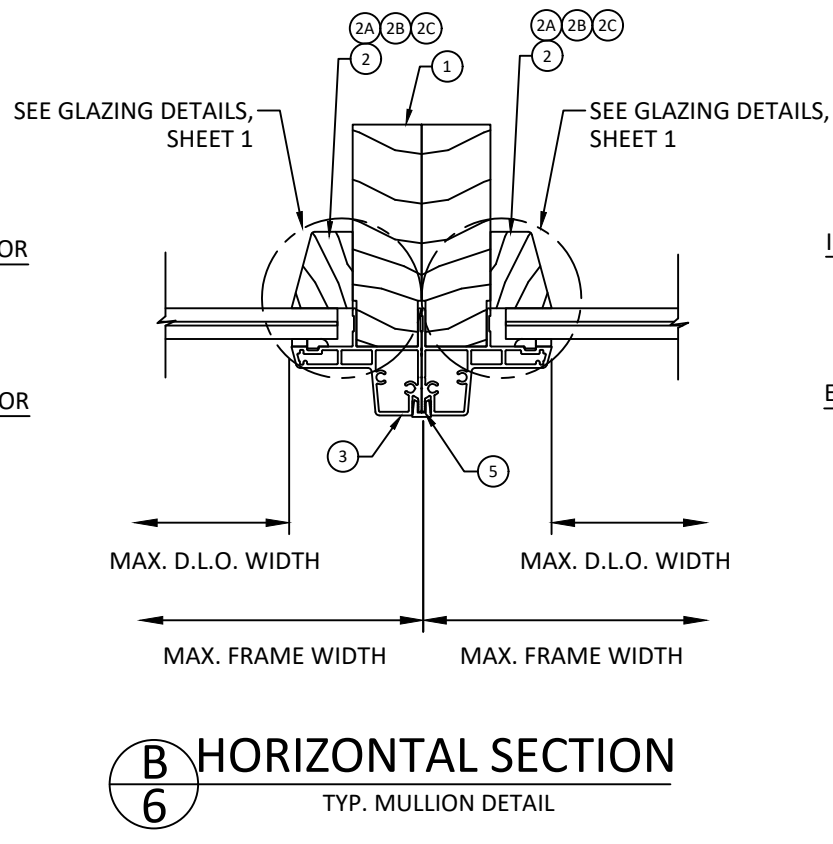
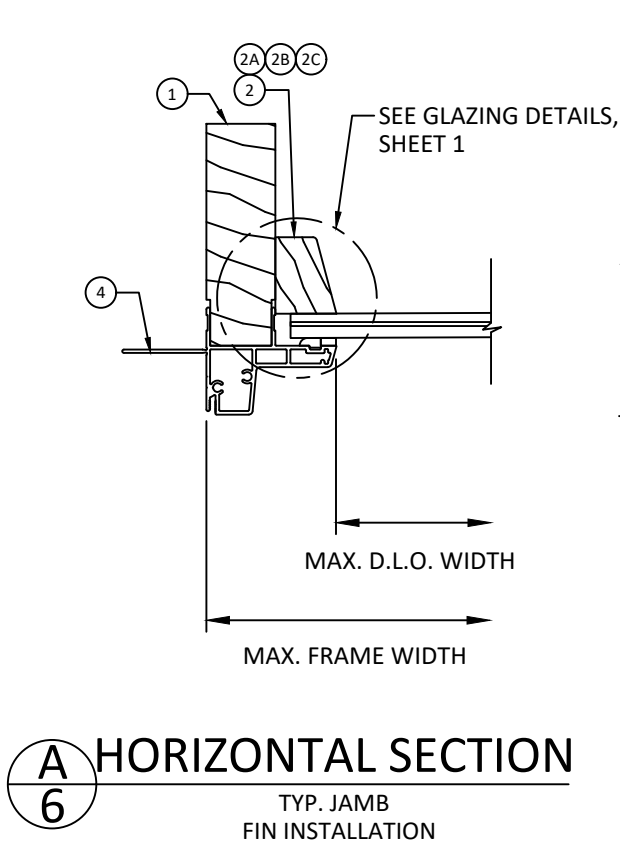
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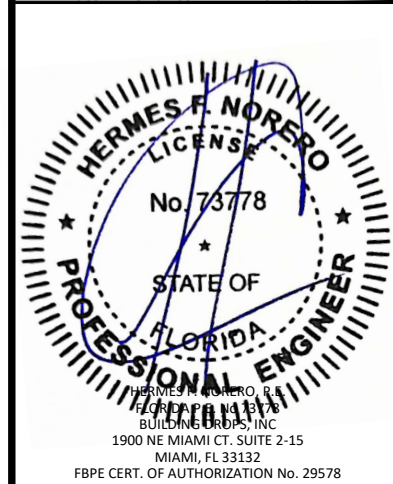
HORIZONTAL SECTIONS

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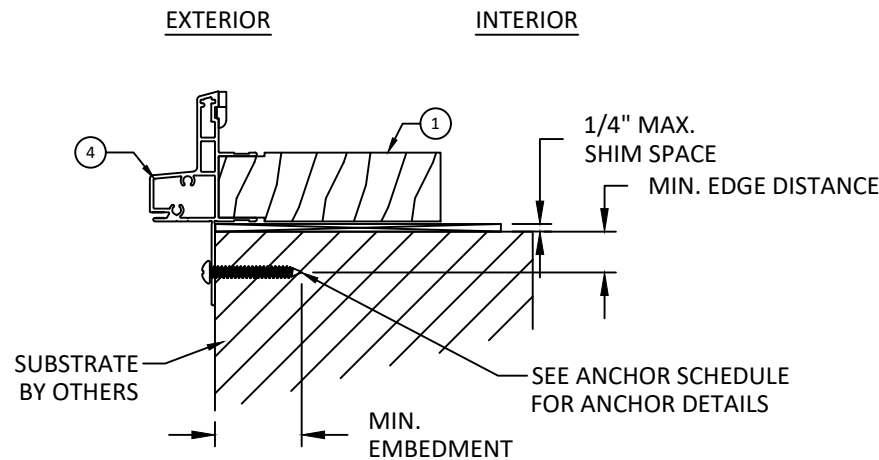
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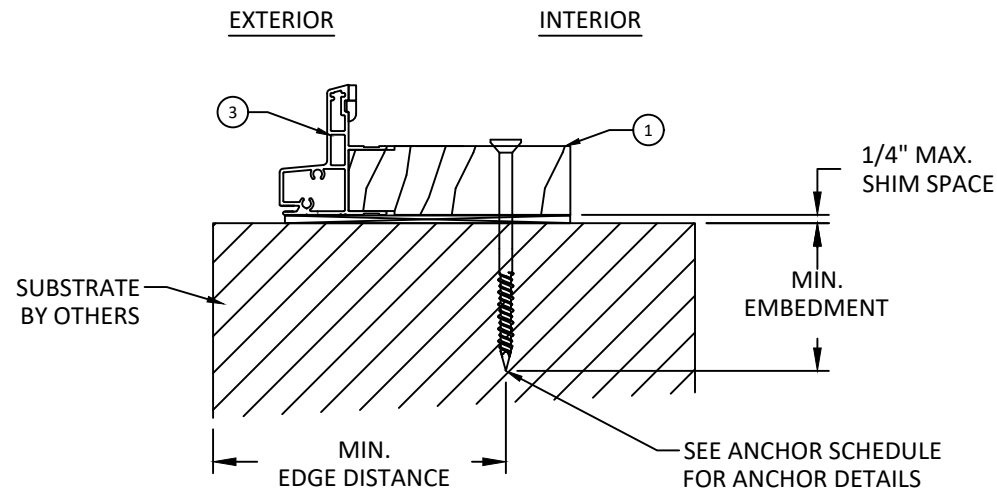


A
7

VERTICAL SECTION

TYP. SILL INSTALLATION
THROUGH ALUMINUM FIN

NOTE: HEAD & JAMB SIMILAR



B
7

VERTICAL SECTION

TYP. SILL INSTALLATION
THROUGH FRAME

NOTE: HEAD & JAMB SIMILAR

ANCHOR SCHEDULE - 350 SERIES				
INST. METHOD	ANCHOR TYPE	SUBSTRATE	MIN. EMBEDMENT	MIN. EDGE DISTANCE
THROUGH FIN	#10 WOOD SCREW	WOOD (S.G. = 0.55)	1.50"	0.75"
	#10 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"
THROUGH FRAME	#10 WOOD SCREW	WOOD (S.G. = 0.55)	1.50"	1.25"
	#10 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"
	3/16" ITW TAPCON	CONCRETE: f'c = 3000 PSI	1.50"	2.00"
	3/16" ITW TAPCON	MASONRY : CMU PER ASTM-C90, MIN. 2000 PSI	1.50"	2.50"

INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN, UNLESS OTHERWISE STATED ON.
- INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ± 1.000 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 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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ANCHOR DETAILS
AND SCHEDULE

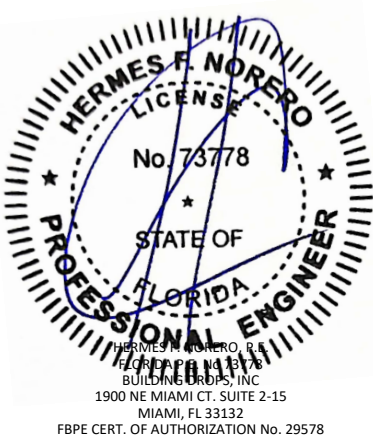
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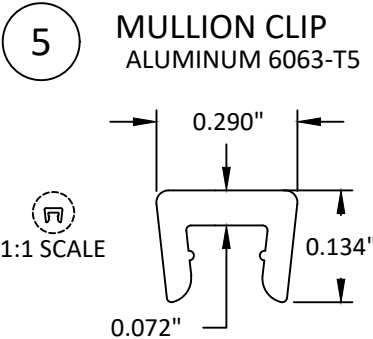
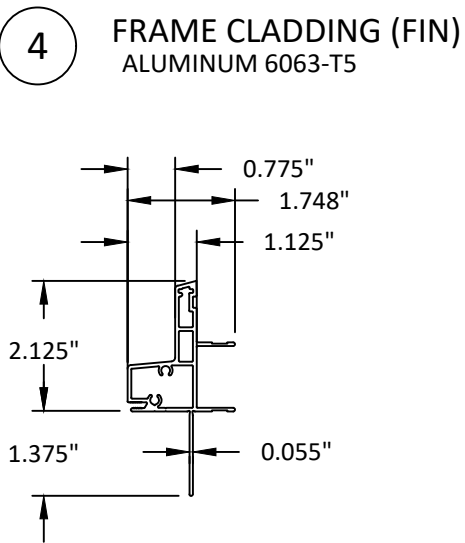
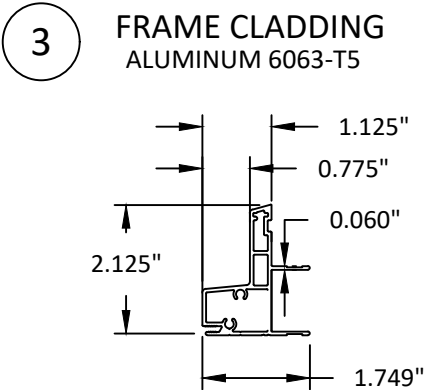
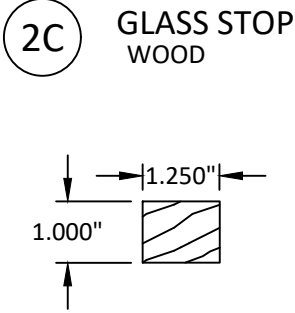
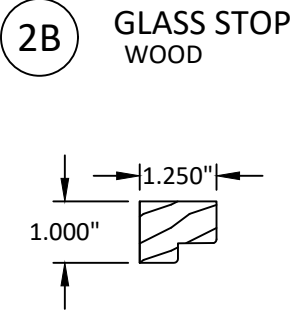
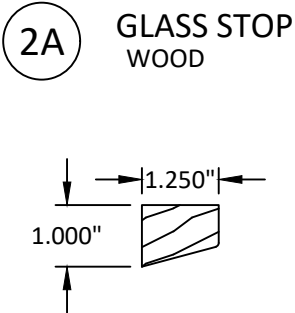
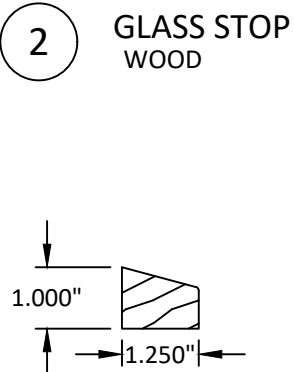
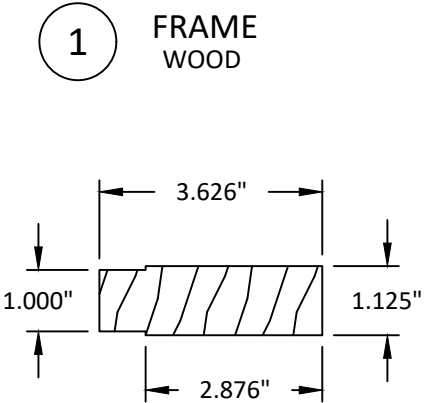
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CHK. BY:	HFN
SCALE:	NTS
DWG. #:	FBP002
SHEET:	7

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SERIES 350 - BILL OF MATERIALS		
PART NO.	PART DESCRIPTION	MATERIAL
1	FRAME	WOOD
2	GLASS STOP	WOOD
3	FRAME CLADDING	ALUMINUM 6063-T5
4	FRAME CLADDING (FIN)	ALUMINUM 6063-T5
5	MULLION CLIP	ALUMINUM 6063-T5



FRONTLINE BUILDING PRODUCTS
610 JENSEN DRIVE
MEDFORD, WI 54451
PH: (715) 748-2288

TITLE:

350 SERIES CLAD HP DIRECT SET
(HVHZ) (IMPACT)

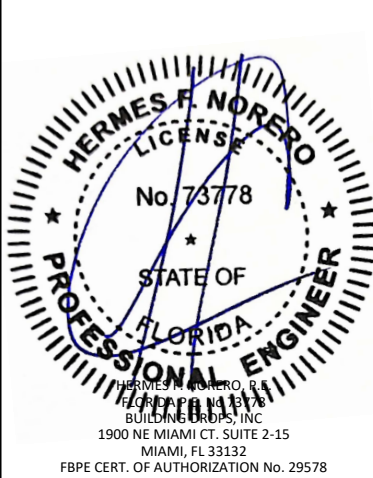
BILL OF MATERIALS
& COMPONENTS

PREPARED BY:

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

REMARKS	BY	DATE

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.



FL #:

FL37879

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OF 8