

CONTINENTAL GLASS SYSTEMS

R-480 SERIES BIFOLDING DOOR (HVHZ)(IMPACT)

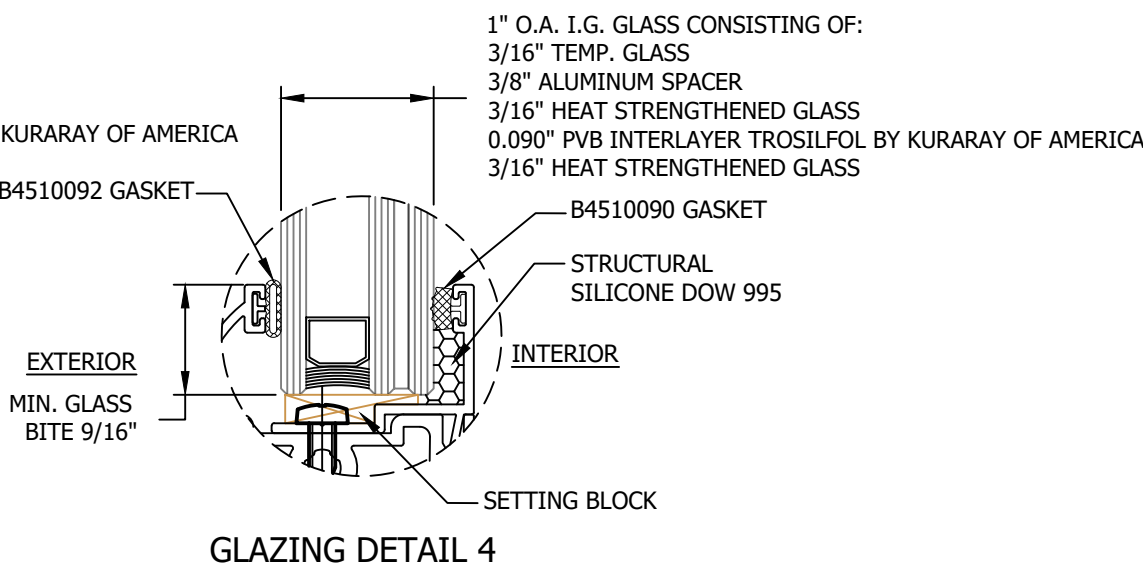
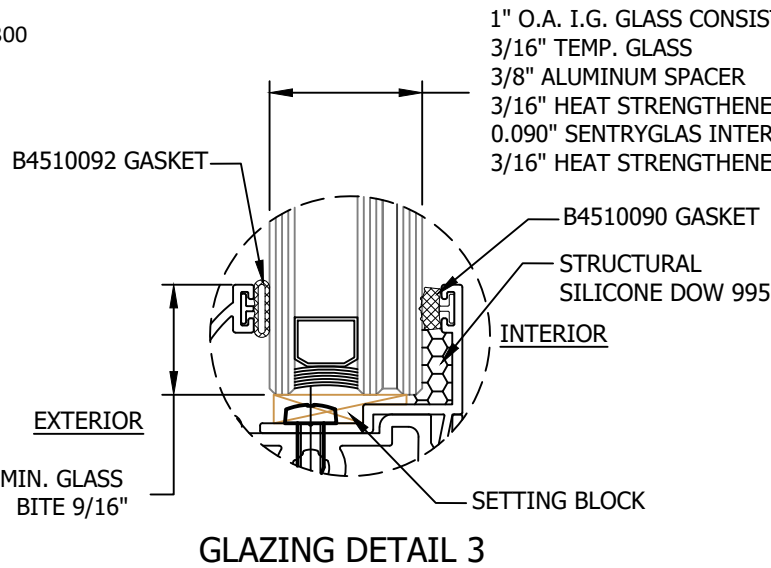
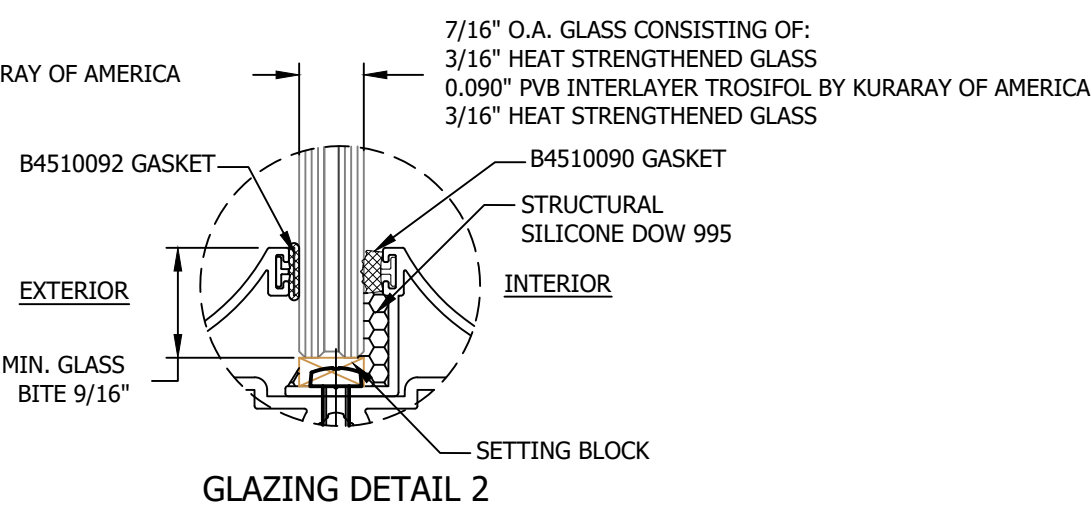
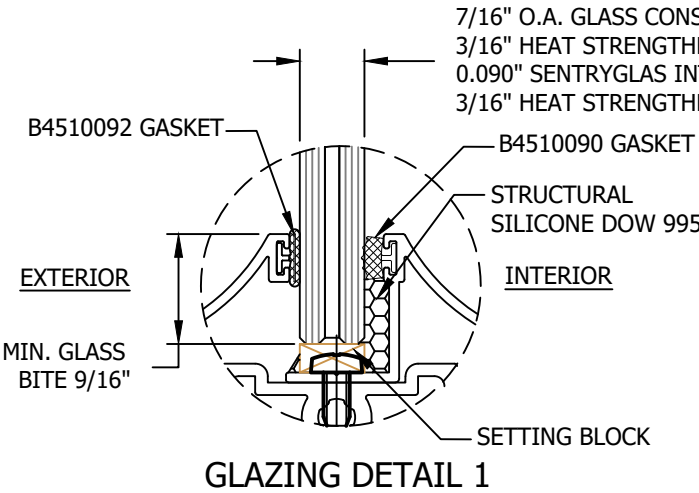
GENERAL NOTES:

1. 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
2. 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.
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 IN NON-HVHZ AREAS. IN HVHZ AREAS, ONE TIME PRODUCT APPROVAL TO BE OBTAINED FROM MIAMI- DADE RER.
5. APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
6. DOOR FRAME MATERIAL: ALUMINUM 6063-T6
7. GLASS SHALL MEET THE REQUIREMENTS OF ASTM E 1300 GLASS CHARTS. SEE SHEET 1 FOR GLAZING DETAILS.

MAX PANEL SIZE		CONFIG.	DESIGN PRESSURE	MISSILE IMPACT RATING
WIDTH	HEIGHT			
39 15/16"	109 3/16"	SEE STANDARD STILE SHEET 2	+90 / -90 PSF	LARGE MISSILE & SMALL MISSILE IMPACT
35 15/16"	97 3/16"	SEE NARROW STILE SHEET 2	+100 / -100 PSF	

SEE SHEET 3 FOR WATER RATINGS

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5	HORIZONTAL SECTIONS - NARROW
6	QUALIFIED CONFIGURATIONS
7	INSTALLATION NOTES & ANCHOR DETAILS



GLAZING NOTES:

1. GLASS TYPE COMPLIES 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.
2. SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN FBC CHAPTER 24.
3. TWO APPROVED SETTING BLOCKS SHALL BE USED FOR GLASS WIDER THAN 36" AS PER FBC CHAPTER 24.
4. D.L.O. AND DESIGN PRESSURES MAY NOT EXCEED MAX VALUES IN DP TABLE ON SHEET 1, AND ELEVATIONS ON SHEET 2.



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TITLE: R-480 SERIES
BIFOLDING DOORS
(HVHZ) (IMPACT)

GENERAL NOTES & GLAZING DETAILS

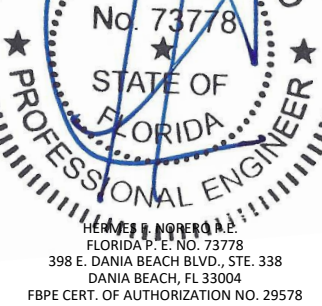
PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
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REMARKS	BY	DATE

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Digitally signed by Hermes S. Norero
Reason: I am approving this document
Date: 2022.02.18 20:18:42 +0100



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CHK. BY: HFN

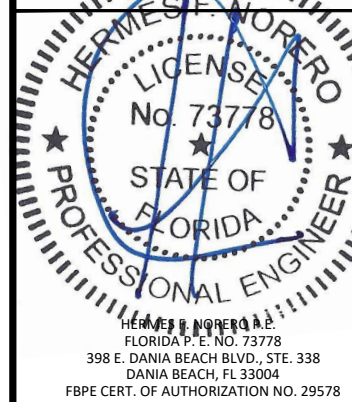
SCALE: NTS

DWG. #: CGS168

SHEET: OF 7

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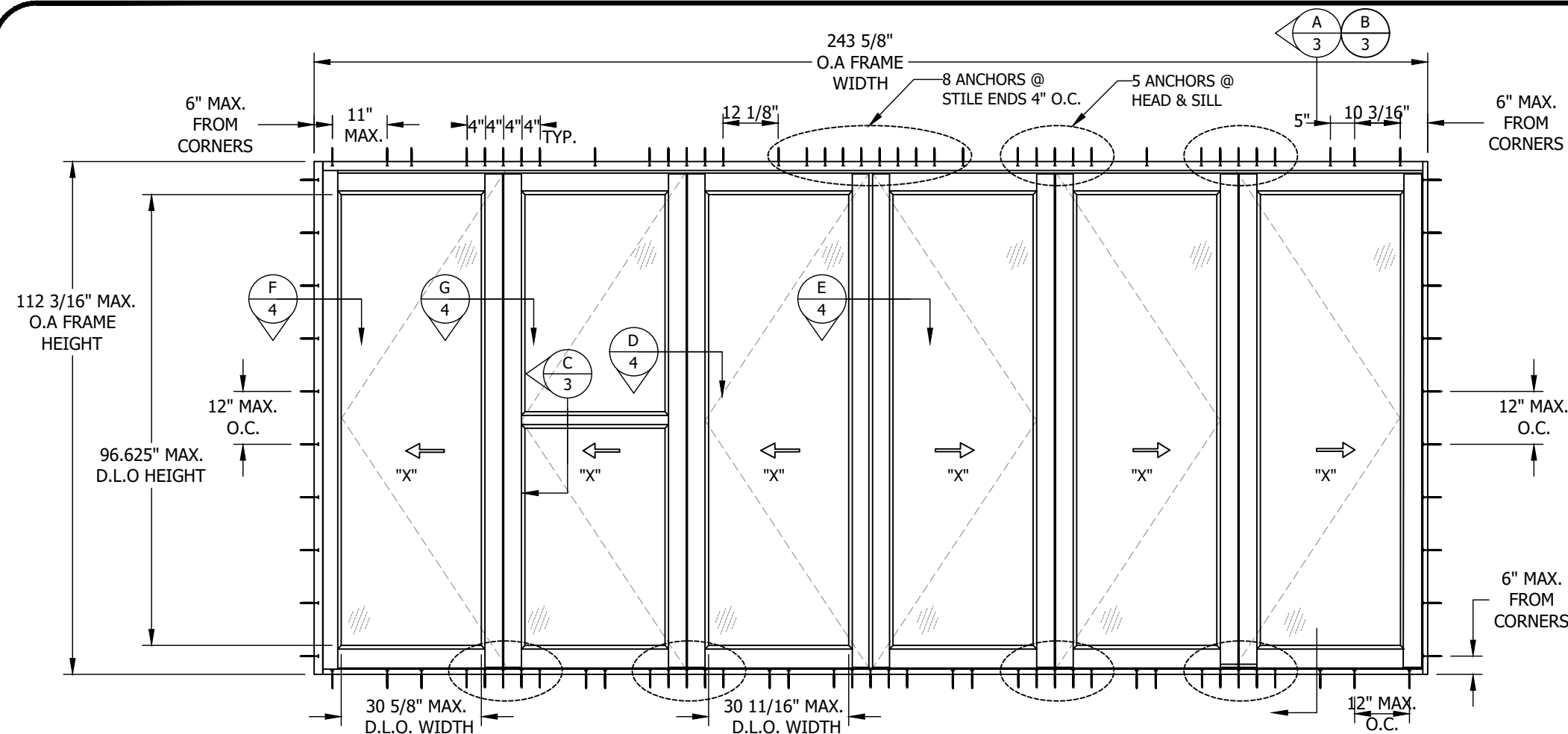
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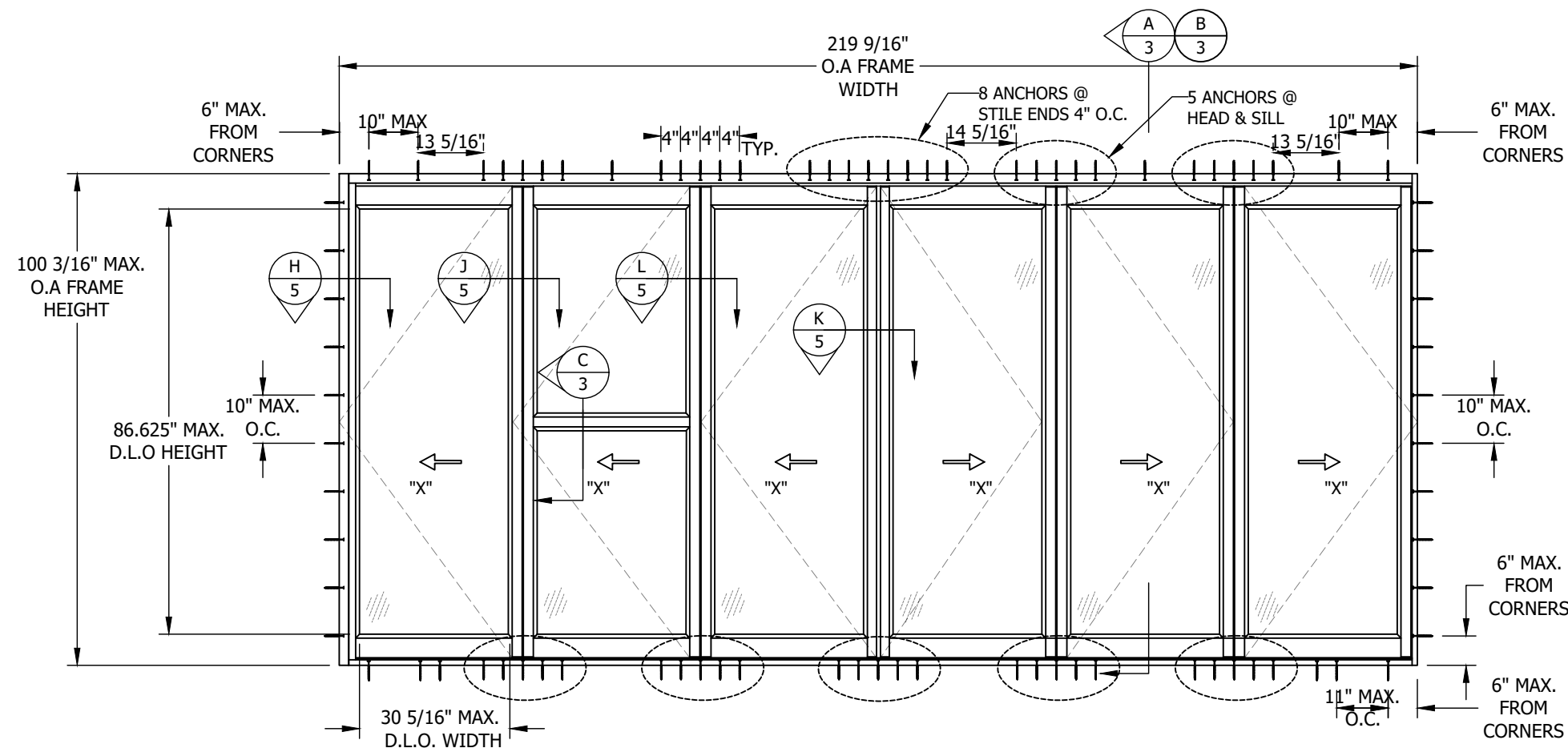


ELEVATION & ANCHOR LAYOUT

3L/3R - STANDARD STILE - BI FOLD DOOR

NOTE:

- TESTED SIZES SHOWN. SEE SHEET 6 FOR OTHER QUALIFIED CONFIGURATIONS.
- STANDARD STILE MAXIMUM ALLOWED FRAME WIDTH = $1.5 \times 243.625" = 365.44"$ SUCH THAT THE MAXIMUM PANEL SIZE, AS SHOWN HEREIN, IS NOT EXCEEDED.
- NARROW STILE MAXIMUM ALLOWED FRAME WIDTH = $1.5 \times 219.5625" = 329.34"$ SUCH THAT THE MAXIMUM PANEL SIZE, AS SHOWN HEREIN, IS NOT EXCEEDED.



ELEVATION & ANCHOR LAYOUT

3L/3R - NARROW STILE - BI FOLD DOOR

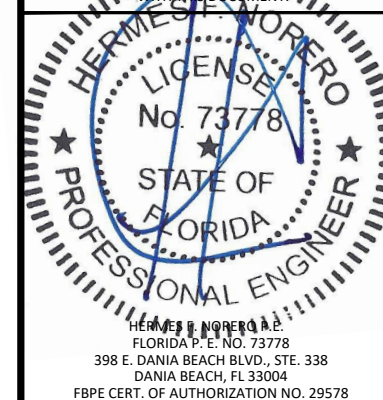
R-480 SERIES
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VERTICAL SECTIONS

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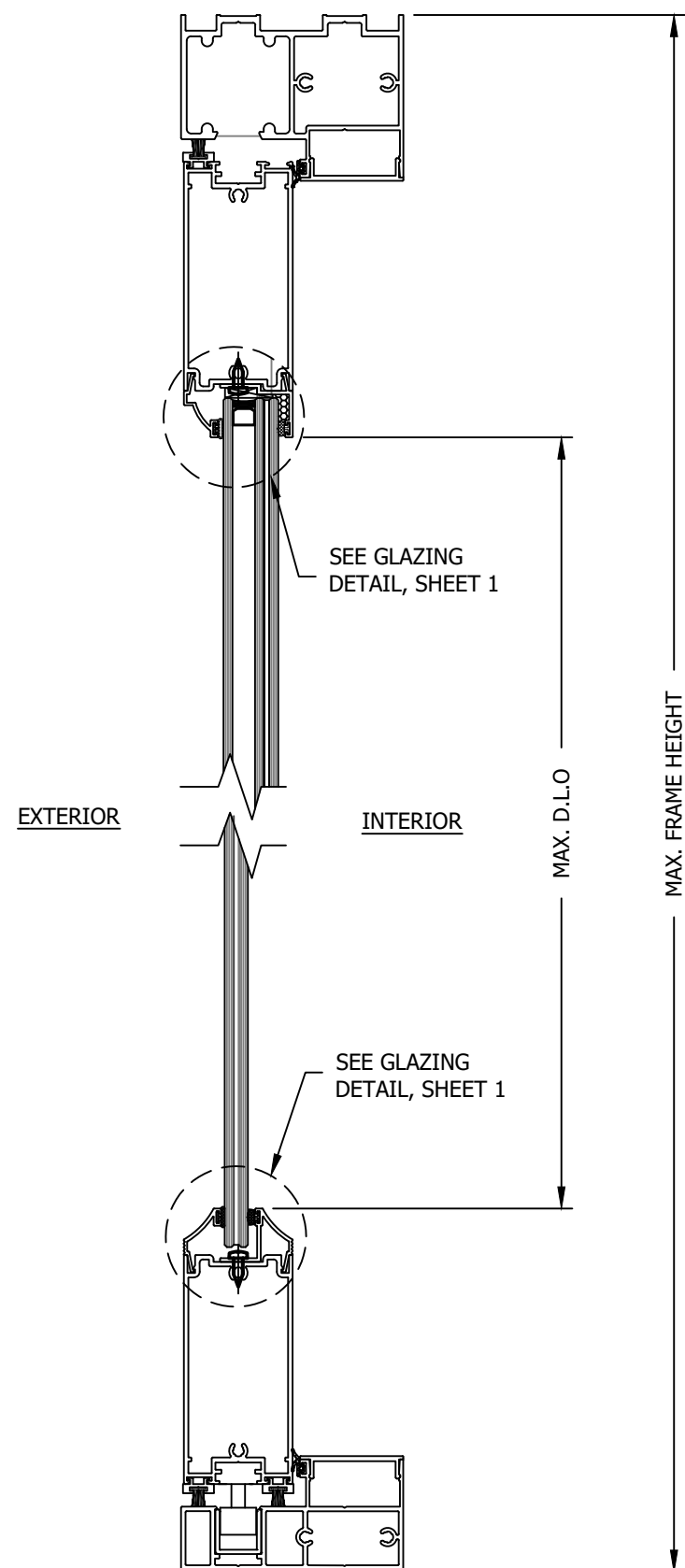
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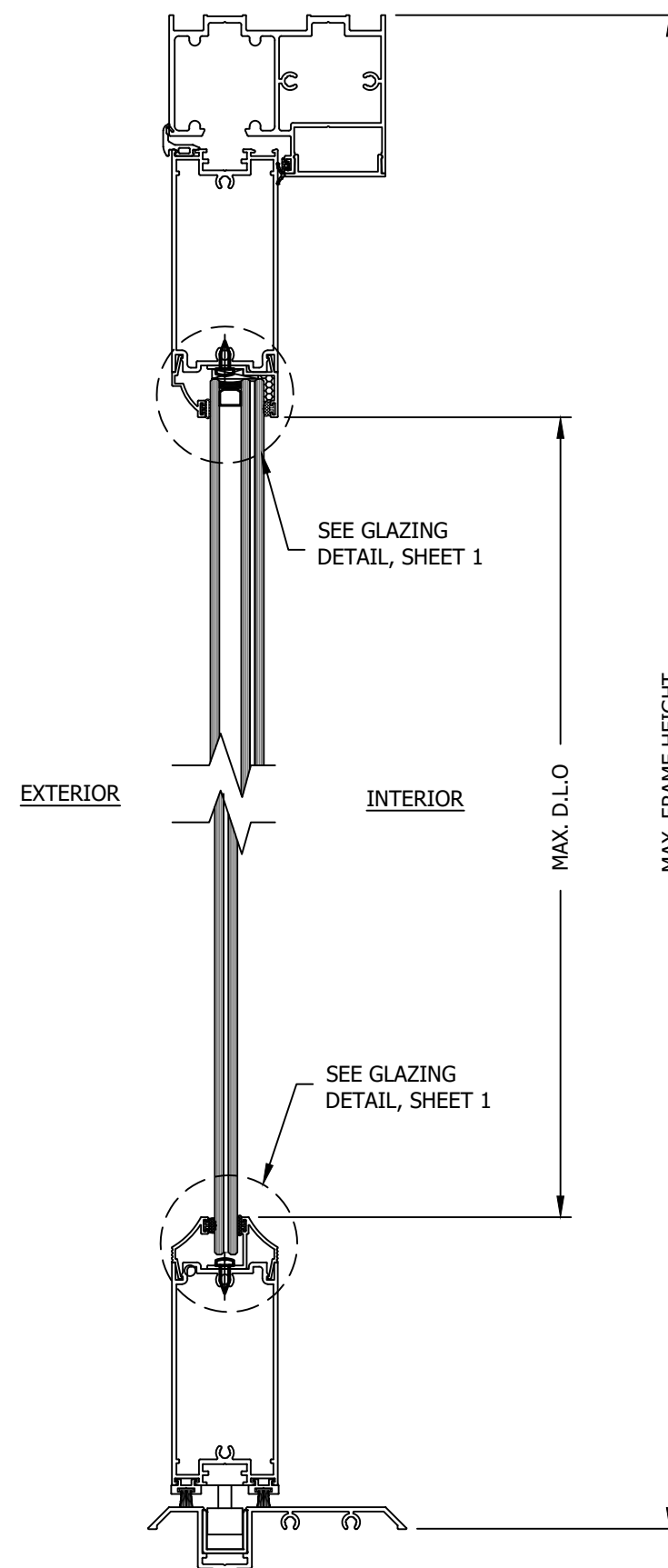
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SHEET: OF 7

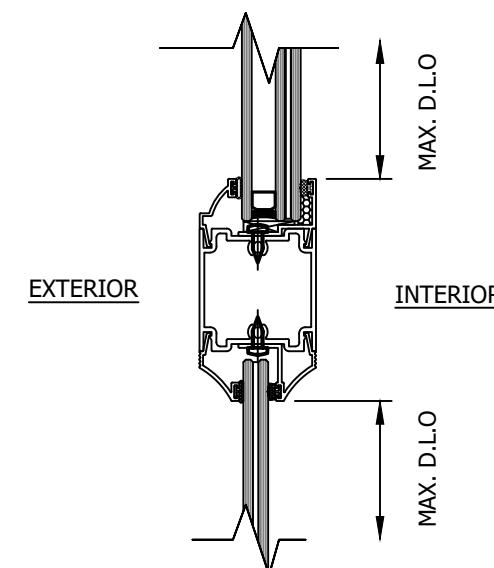
3



A
3 VERTICAL SECTION
BI FOLD DOOR - STANDARD SILL
APPROVED FOR WATER INFILTRATION (WTP=15 PSF)

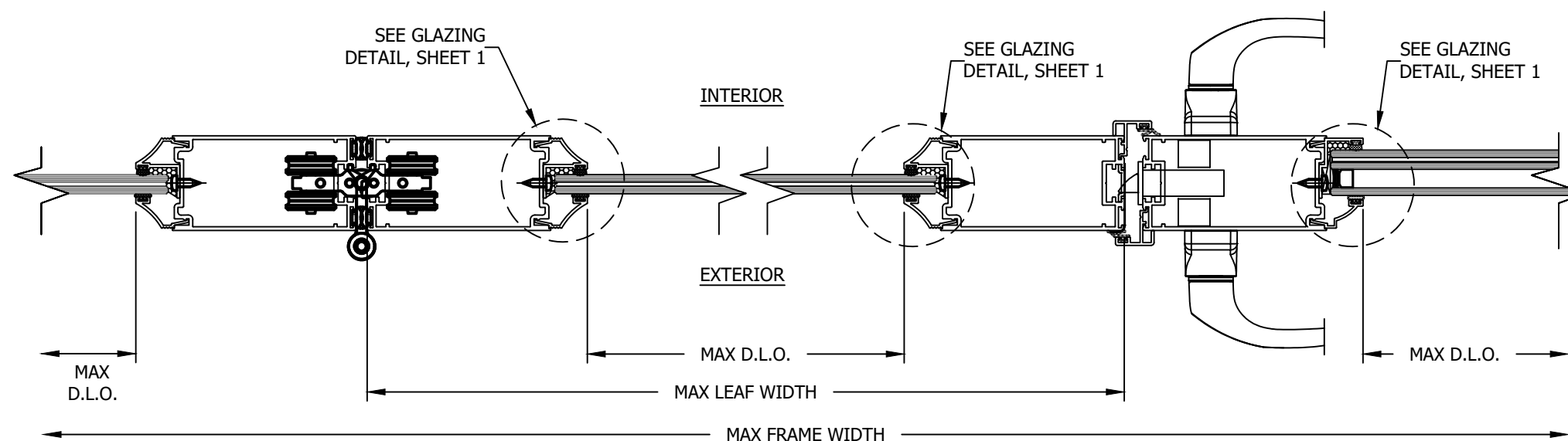


B
3 VERTICAL SECTION
BI FOLD DOOR - FLUSH SILL
NOT APPROVED FOR WATER INFILTRATION*



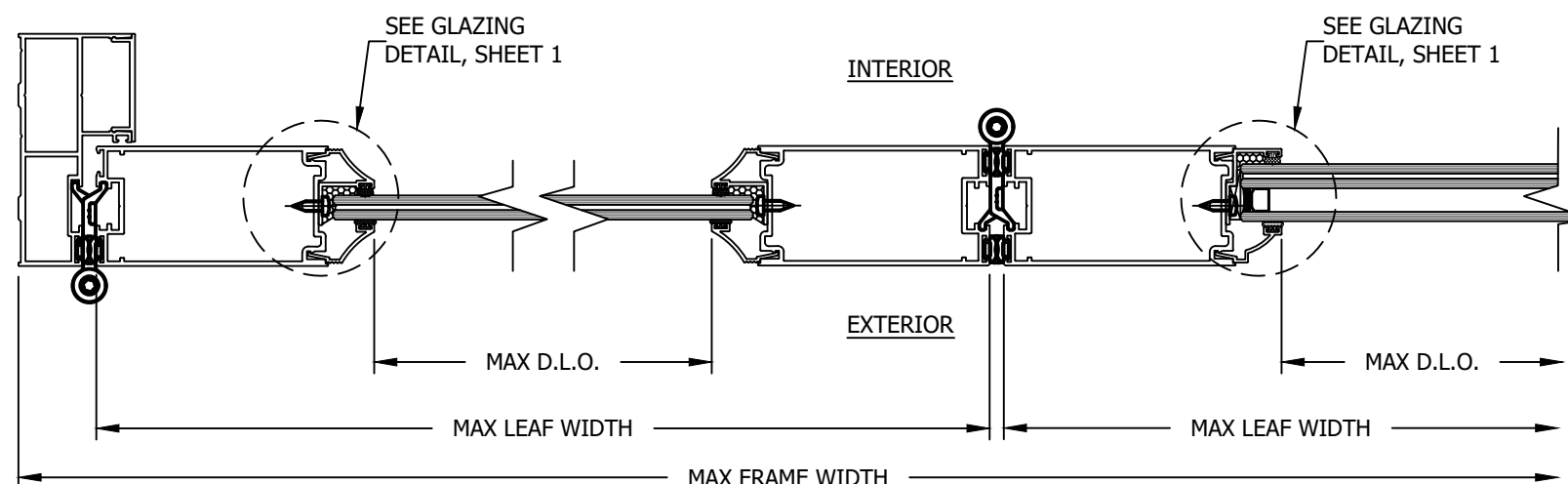
C
3 VERTICAL SECTION
BI FOLD DOOR - MID RAIL

*FLUSH SILL SHALL BE USED AT NON-HABITABLE LOCATIONS OR WHERE PROTECTED BY AN OVERHANG RATIO EQUAL OR GREATER THAN 1.0, WHERE OVERHANG RATIO = OVERHANG LENGTH / OVERHANG HEIGHT.



D
4 **HORIZONTAL SECTION**
STANDARD STILE - BI FOLD DOOR
ROLLER HINGE

E
4 **HORIZONTAL SECTION**
STANDARD STILE - BI FOLD DOOR
ASTRAGAL



F
4 **HORIZONTAL SECTION**
STANDARD STILE - HINGE JAMB

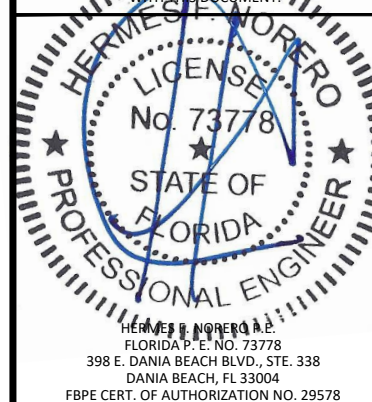
G
4 **HORIZONTAL SECTION**
STANDARD STILE - HINGE

TITLE: **R-480 SERIES
BIFOLDING DOORS
(HVHZ) (IMPACT)**
HORIZONTAL SECTIONS - STANDARD STILE

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SHEET: **4** OF 7

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BIFOLD DOORS
(HVHZ) (IMPACT)

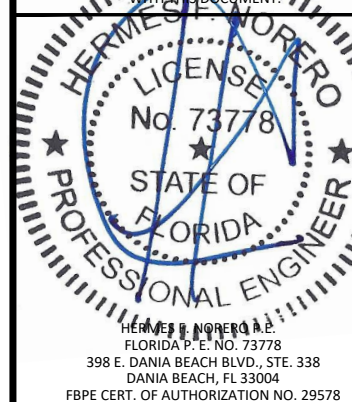
HORIZONTAL SECTIONS - NARROW STILE

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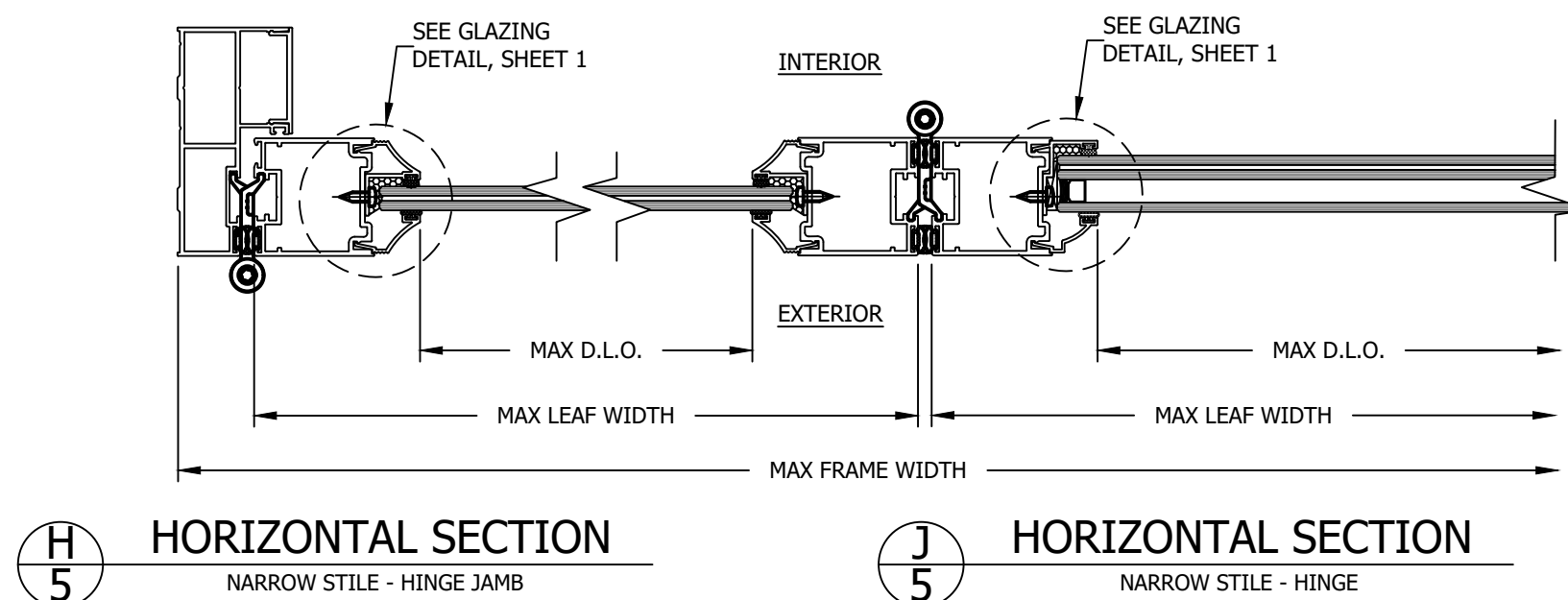
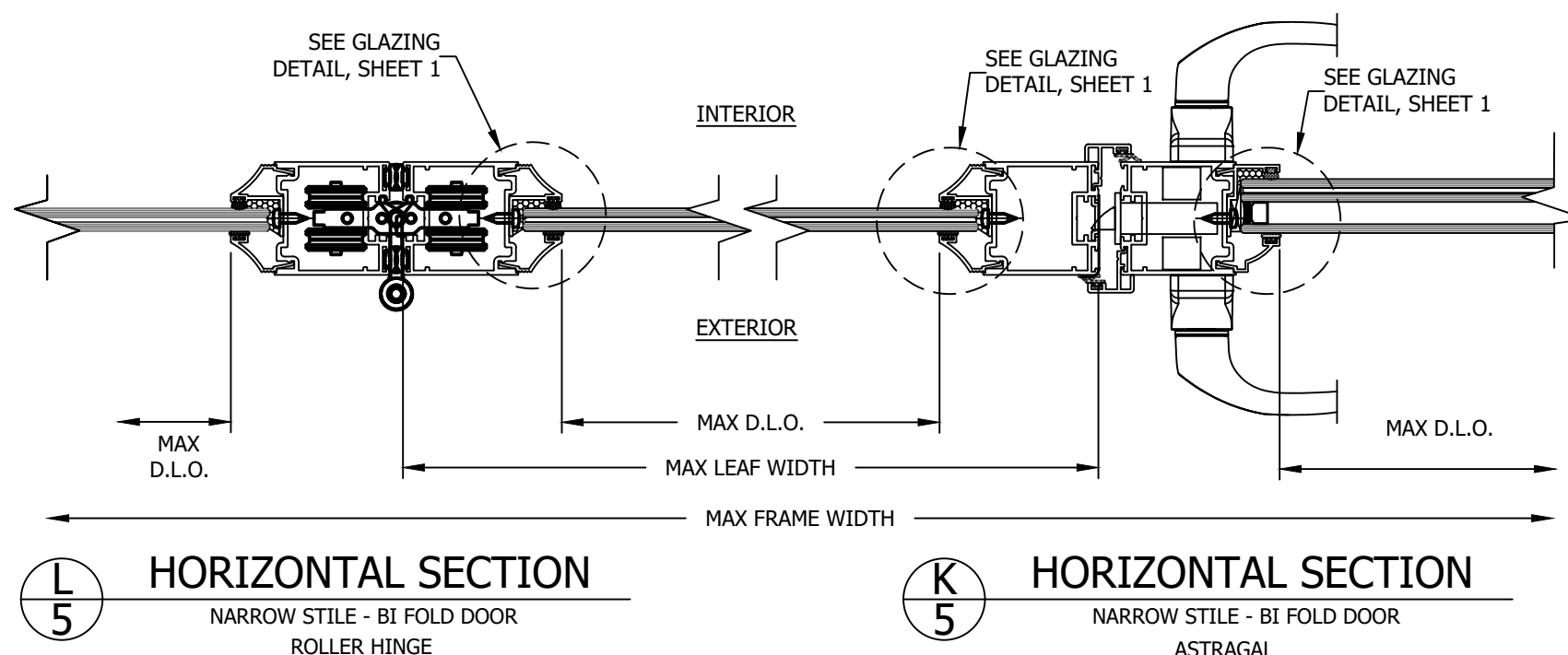
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R-480 SERIES
BIFOLDING DOORS
(HVHZ) (IMPACT)

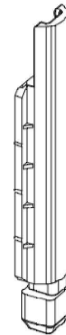
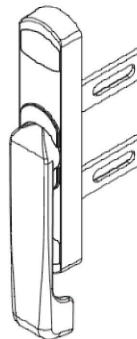
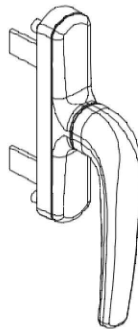
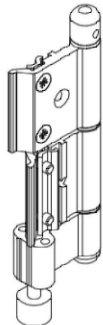
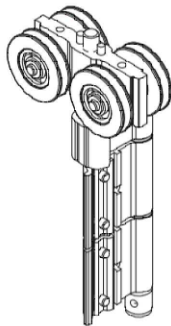
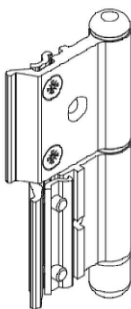
QUALIFIED CONFIGURATIONS

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PANEL CT.	QUALIFIED CONFIGURATIONS							
1	1L	1R	-	-	-	-	-	-
2	1L1R	-	-	-	-	-	-	-
3	-	-	3L	3R	-	-	-	-
4	1L3R	3L1R	-	-	-	-	-	-
5	-	-	-	-	5L	5R	-	-
6	1L5R	5R1L	-	-	3L3R	-	-	-
7	-	-	-	-	-	-	7L	7R
8	1L7R	7L1R	-	-	3L5R	5L3R	-	-
9	-	-	-	-	-	-	-	-
10	-	-	3L7R	7L3R	-	-	5L5R	-
11	-	-	-	-	-	-	-	-
12	4L8R	8L4R	5L7R	7L5R	6L6R	-	-	-
13	-	-	-	-	-	-	-	-
14	-	-	7L7R	-	-	-	-	-
15	-	-	-	-	-	-	-	-
16	-	-	-	-	-	-	-	-

- NOTES:
1. MAXIMUM PANEL SIZE: 39-15/16" X 112-15/16".
 2. TERMINAL PANEL HARDWARE:
 - A. 'ODD' TO 'ODD' PANEL COUNT (I.E. 3L3R CONFIG.)- REQUIRES LOCK (ITEM 4) ON ACTIVE SWING PANEL.
 - B. 'ODD' PANEL COUNT INTO JAMB (I.E. 5L CONFIG.) - REQUIRES LOCK (ITEM 4) ON ACTIVE SWING PANEL.
 3. HINGED JOINT PANELS - ALL HINGED PANELS REQUIRE FIVE CENTER HINGES (ITEM 1 + 5) AND 2-PT LOCK (ITEM 6)
 4. CARRIER JOINT PANELS - ALL CARRIER PANELS REQUIRE AN INTERMEDIATE CARRIER SET (ITEM 2+3), AND THREE HINGES (ITEM 1)



1 HINGE

2 CARRIER HINGE

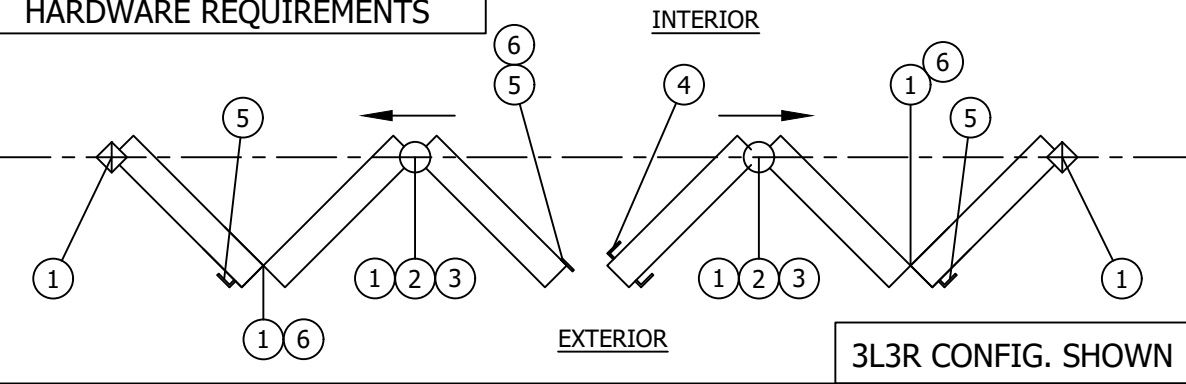
3 ROLLER HINGE

4 LOCK HINGE

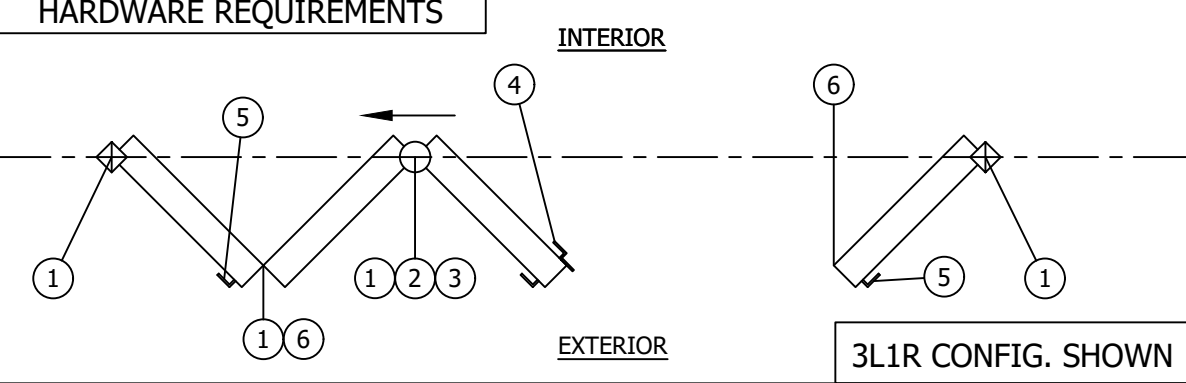
5 FLUSH BOLT LEVER

6 FLUSH BOLT

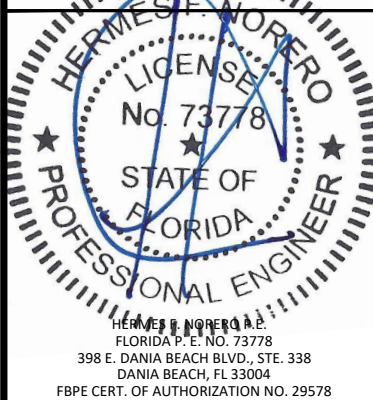
ODD/ODD PANEL COUNT TYP.
HARDWARE REQUIREMENTS



ODD/ODD PANEL COUNT TYP.
HARDWARE REQUIREMENTS



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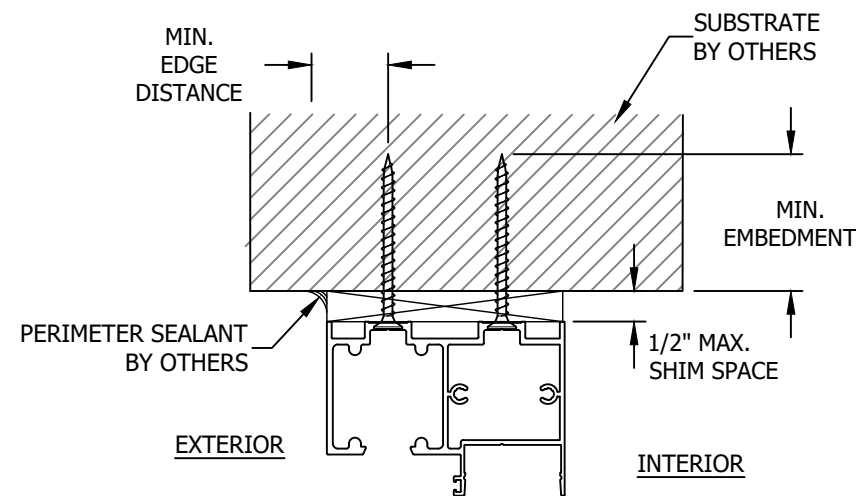
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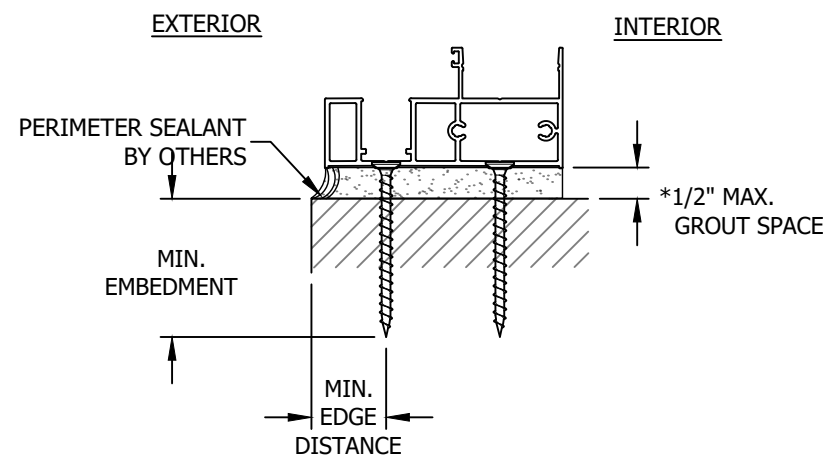
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SHEET: OF 7



A
7

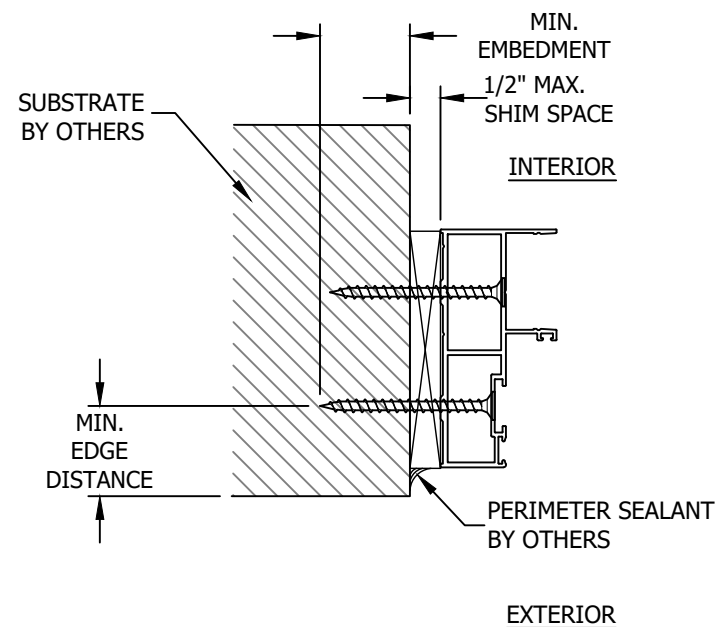
ANCHOR DETAIL
THROUGH FRAME (HEAD)



B
7

ANCHOR DETAIL
THROUGH FRAME (SILL)

* POUR & HARDENED HIGH STRENGTH GROUT
NON-SHRINK, NON-METALIC $f_c = 5000$ PSI MIN.
NOT BY MANUFACTURE WINDOW COMPANY.
MUST TRANSFER SHEAR LOADS TO STRUCTURE.



C
7

ANCHOR DETAIL
THROUGH FRAME (JAMB)

INSTALLATION NOTES:

1. TWO (2) INSTALLATION ANCHORS ARE REQUIRED AT EACH ANCHOR LOCATION SHOWN.
2. THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION OF THE MAXIMUM SIZE LISTED.
3. 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.
4. 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.
5. FOR MASONRY OR CONCRETE OPENINGS, 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.
6. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
7. INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
8. 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.
9. 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
THROUGH FRAME	WOOD: MIN. SG = 0.55	5/16" DEWALT	1.5"	0.75"
			1.5"	0.75"
	METAL: 18 GAUGE Steel, MIN. $F_y = 33$ KSI ALUMINUM 6063-T5 0.125 MIN	1/4" DEWALT DRILL-FLEX	3 THREADS MIN PENETRATION BEYOND METAL	0.50"
	CONCRETE: $f_c=3000$ PSI	5/16" DEWALT ULTRA-CON	1.25"	1.75"
	MASONRY: CMU per ASTM C90 MIN. 2000 PSI		1.25"	1.75"



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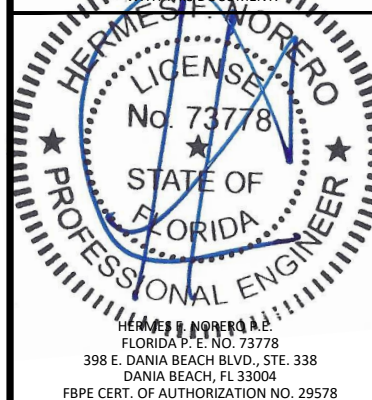
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