

PanoramAH! AMERICA, LLC

PH38 SLIDING GLASS DOOR - TWO PANEL

(HVHZ)(IMPACT)

INSTALLATION NOTES:

1. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.
2. SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM STACK SHALL BE AS SHOWN IN INSTALLATION DETAILS. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
3. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
4. INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING, AND SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS.

4.1. 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).

4.2. *FASTENERS INSTALLED WITHIN 300 FEET OF A SALTWATER COASTLINE IN EXTERIOR-PARTIALLY SHELTERED OR EXTERIOR-OPEN EXPOSED SPACES SHALL BE STAINLESS STEEL PER SECTION 1711.1.1.1 (ASTM A240 TYPE 304, A305, 316, OR 410).

4.3. CONNECTORS AND METAL PLATES USED WITHIN 3,000 FEET OF A SALTWATER COASTLINE AND INSTALLED IN ENCLOSED UNVENTED SPACES SHALL BE STANDARD GALVANIZED IN ACCORDANCE WITH SECTION 1711.1.2 (E.G., ASTM A653 G90, ASTM A123, OR PROTECTIVE COATING PER TPI 1).

4.4. CONNECTORS AND METAL PLATES USED BETWEEN 300 AND 3,000 FEET OF A SALTWATER COASTLINE AND INSTALLED IN ENCLOSED VENTED SPACES, EXTERIOR-PARTIALLY SHELTERED OR EXTERIOR-OPEN EXPOSED SPACES SHALL BE ENHANCED GALVANIZED PER SECTION 1711.1.2.2 (ASTM A653 G185, ASTM A123 AT 2.0 OZ/SF MIN, OR TPI 1 COATING).

4.5. *CONNECTORS AND METAL PLATES USED WITHIN 300 FEET OF A SALTWATER COASTLINE IN EXTERIOR-PARTIALLY SHELTERED OR EXTERIOR-OPEN EXPOSED SPACES SHALL BE STAINLESS STEEL PER SECTION 1711.1.2.1 (ASTM A240 TYPE 316).

4.6. FASTENERS USED WITH CONNECTORS OR METAL PLATES SHALL HAVE A CORROSION-RESISTANT COATING OR COMPOSITION COMPATIBLE WITH THAT OF THE CONNECTOR/PLATE TO PREVENT GALVANIC CORROSION BETWEEN DISSIMILAR MATERIALS (SECTION 1711.1.1.3). EXCEPTION: FASTENERS AND CONNECTORS FULLY EMBEDDED IN CONCRETE OR MORTAR ARE EXEMPT FROM NOTES 6 AND 7 (SECTION 1711.1).
5. FOR 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.
6. FOR 2X STUD CONSTRUCTION, ANCHORING OF THESE PRODUCTS SHALL BE THE SAME AS FOR 2X BUCK CONCRETE/MASONRY CONSTRUCTION.
7. FOR INSTALLATION INTO 2X WOOD BUCK OR WOOD FRAMING, USE (2) #14 HWH WOOD SCREWS OR (2) 1/4" SWG ASSY 3.0 SS SCREWS* PER LOCATION.

7.1. MIN. EMBEDMENT = 1-1/2"

7.2. MIN. EDGE DISTANCE = 3/4"
8. FOR INSTALLATION INTO METAL STUD FRAMING (STEEL OR ALUMINUM), USE (2) 1/4" HWH GR. 5 SELF-DRILLING SCREWS OR (2) 1/4" DEWALT BIFLEX SS SCREWS* PER LOCATION.

8.1. MIN. 3 THREADS PENETRATION BEYOND METAL SUBSTRATE

8.2. MIN. EDGE DISTANCE = 3/4"
9. FOR INSTALLATION DIRECT TO CONCRETE OR GROUT FILLED MASONRY OR WHERE A 1X WOOD BUCK IS EMPLOYED AND FASTENED THROUGH TO CONCRETE OR GROUT FILLED MASONRY, USE (2) 1/4" ITW TAPCONS OR (2) #14 CRETE-FLEX SS SCREWS* PER LOCATION.

9.1. MIN. EMBEDMENT = 1-3/4"

9.2. MIN. EDGE DISTANCE = 2-1/2" IN GROUT FILLED CMU, 2" IN CONCRETE
10. INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:

A. WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.

B. STEEL - MIN. 16 GA., MIN. Fy=36 KSI

C. ALUMINUM - MIN. 1/8", MIN. 6063-T5

D. CONCRETE -MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.

E. GROUT-FILLED CMU- UNIT STRENGTH CONFORMS TO ASTM C-90 WITH MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI AND GROUT CONFORMS TO ASTM C 476, MIN. GROUT COMPRESSIVE STRENGTH OF 2000 PSI.
11. SEE SHEETS 4 & 5 FOR MORE DETAILS OF THE INSTALLATION REQUIREMENTS, INCLUDING ANCHOR LOCATIONS, EDGE DISTANCES, EMBEDMENTS, AND SHIM SPACING.

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1	GENERAL NOTES & INSTALLATION NOTES
2	TYPICAL ELEVATION & DESIGN PRESSURE TABLES
3	TYPICAL ANCHOR & DRAINAGE LAYOUT
4	VERTICAL SECTIONS & GLAZING DETAIL
5	HORIZONTAL SECTIONS
6	COMPONENTS
7	BILL OF MATERIALS & COMPONENTS

GENERAL NOTES:

1. 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:
 - TAS 201-94
 - TAS 202-94
 - TAS 203-94
2. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY OR 2X 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. 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.
4. APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
5. DESIGNATIONS "X" AND "O" STAND FOR THE FOLLOWING:

5.1. X: OPERABLE PANEL

5.2. O: FIXED PANEL
6. QUALIFIED CONFIGURATIONS INCLUDE: OX, XO, & XX.



1000 WOODBURY ROAD, STE. 206
WOODBURY, NY 11797
PH: (631)683-8580

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TWO PANEL
(HVHZ)(IMPACT)
GENERAL NOTES &
INSTALLATION NOTES

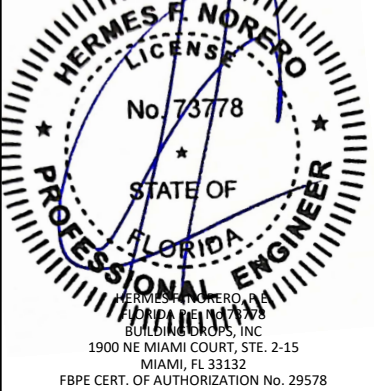
PREPARED BY:
BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
2026 FBC UPDATE	DB	08/26

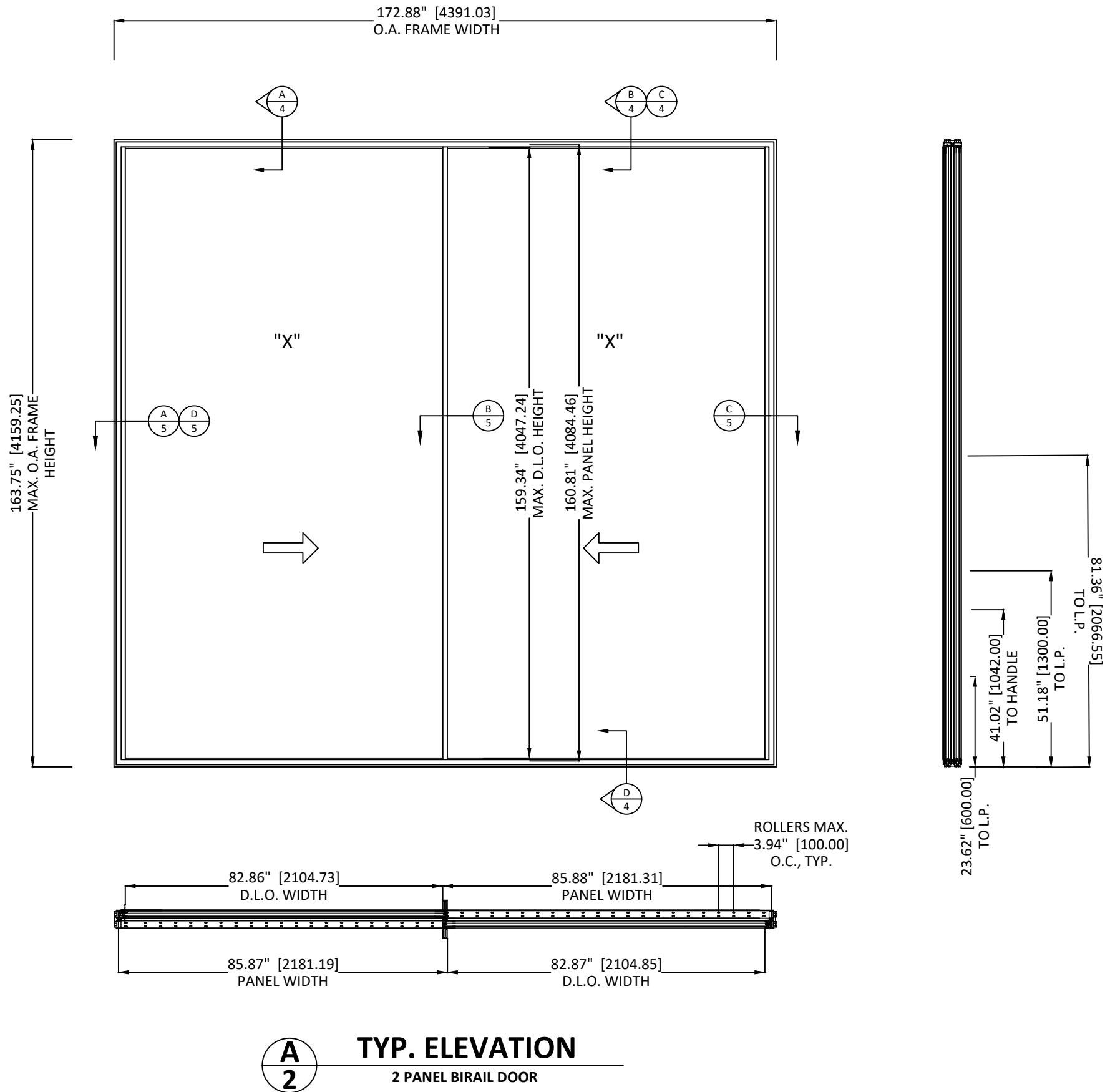
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Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2026.10.02 19:11:49 -07'00'



FL #:		FL21091
DATE:		02.28.2020
DWG. BY:	CHK. BY:	
SM	HFN	
SCALE:		NTS
DWG. #:		PAN003
SECTION:	REV.	
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OF 7		

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ALLOWABLE DESIGN PRESSURE TABLE			
NOMINAL DIMENSIONS		DESIGN PRESSURE (PSF)	
WIDTH - W (IN)	HEIGHT - H (IN)	POS (+)	NEG (-)
86.44	120	50.0	55.0
90		50.0	55.0
96		50.0	55.0
102		50.0	55.0
108		50.0	55.0
114		50.0	55.0
86.44	126	50.0	55.0
90		50.0	55.0
96		50.0	55.0
102		50.0	55.0
108		50.0	55.0
86.44	132	50.0	55.0
90		50.0	55.0
96		50.0	55.0
102		50.0	55.0
86.44	138	50.0	55.0
90		50.0	55.0
96		50.0	55.0
102		50.0	55.0
86.44	144	50.0	55.0
90		50.0	55.0
96		50.0	55.0
86.44	150	50.0	55.0
90		50.0	55.0
96		50.0	55.0
86.44	156	50.0	55.0
90		50.0	55.0
86.44	162	50.0	55.0
90		50.0	55.0
86.44	163.75	50.0	55.0
90		50.0	55.0
96		50.0	55.0
102		50.0	55.0
108		50.0	55.0
114		50.0	55.0

- DESIGN PRESSURE TABLE NOTES
- DESIGN PRESSURES HEREIN HAVE BEEN DETERMINED IN ACCORDANCE WITH FBC SECTION 1709.5.1.
 - DESIGN PRESSURES SHALL BE COMPARED TO WIND LOADS AT THE JOBSITE IN QUESTION. WIND LOADS SHALL BE DETERMINED IN ACCORDANCE WITH CH. 16 OF THE FLORIDA BUILDING CODE. WIND LOADS MAY BE MULTIPLIED BY A FACTOR OF 0.6 FOR CONVERSION TO ALLOWABLE STRENGTH DESIGN (ASD).
 - NOMINAL DIMENSIONS SHALL BE DETERMINED AS FOLLOWS:
3.1. NOMINAL WIDTH, W = OVERALL FRAME WIDTH/2
3.2. NOMINAL HEIGHT, H = OVERALL FRAME HEIGHT
 - ABBREVIATION, L.P. = LOCK POINTS FOR 'MUSHROOM' HEAD LOCKING DEVICE.
 - REFER TO SHEET 1, GENERAL NOTE 6 FOR QUALIFIED CONFIGURATIONS.



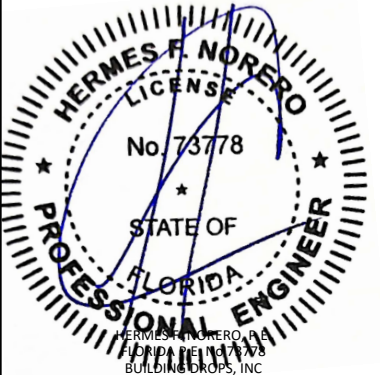
1000 WOODBURY ROAD, STE. 206
WOODBURY, NY 11797
PH: (631)683-8580

TITLE: PH38 SLIDING GLASS DOOR
TWO PANEL
(HVHZ)/(IMPACT)
TYPICAL ELEVATION & DESIGN
PRESSURE TABLE

PREPARED BY:
BUILDING DROPS, INC.
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HERMES F. NORERO
LICENSE
No. 73778
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

FL #:
FL21091

DATE: **02.28.2020**

DWG. BY: SM	CHK. BY: HFN
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SCALE: **NTS**

DWG. #: **PAN003**

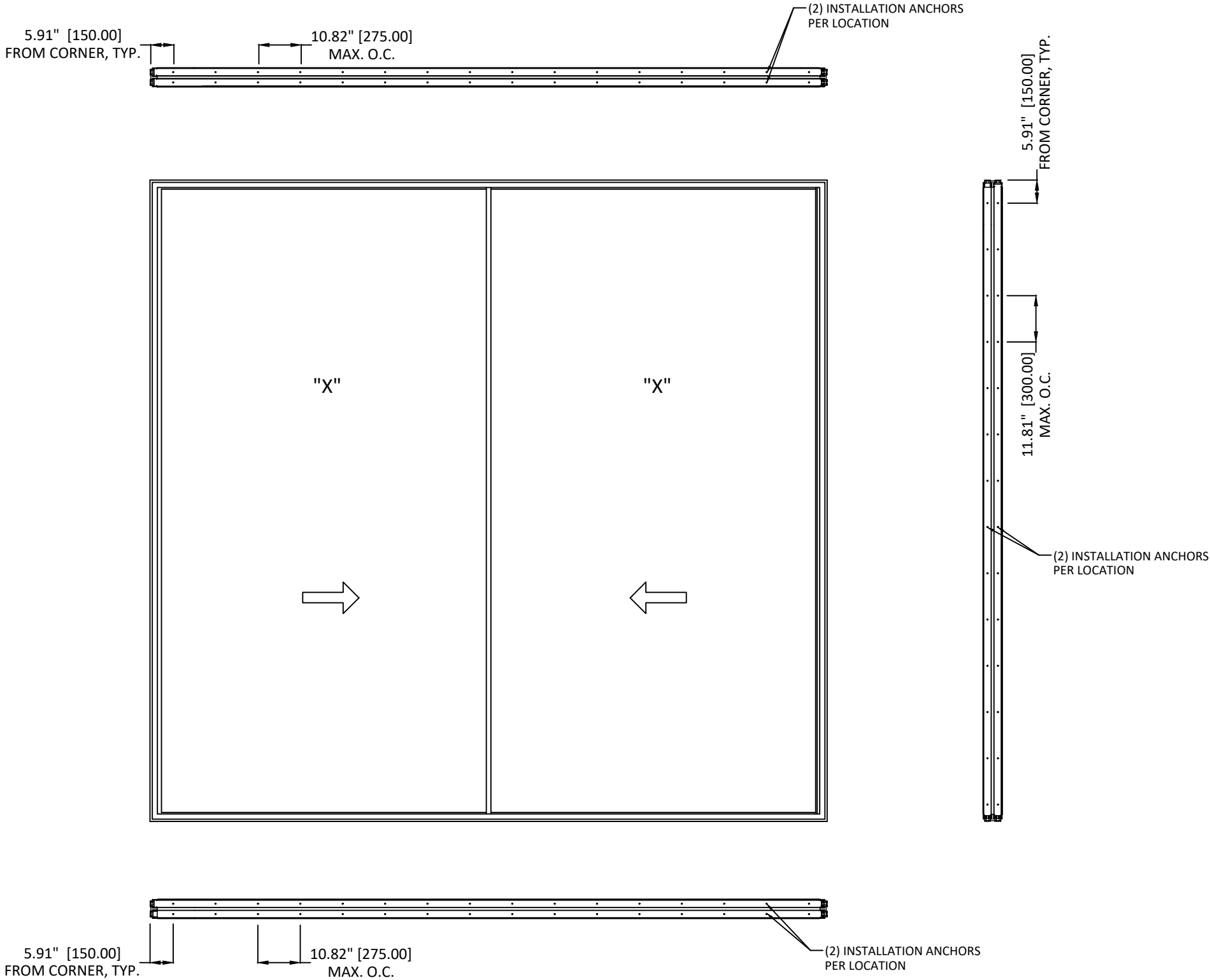
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OF 7

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A
3 **ANCHOR LAYOUT**
2 PANEL BIRAIL DOOR

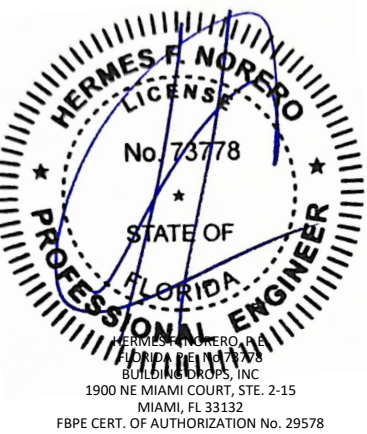
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TWO PANEL
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TYPICAL ANCHOR &
DRAINAGE LAYOUT

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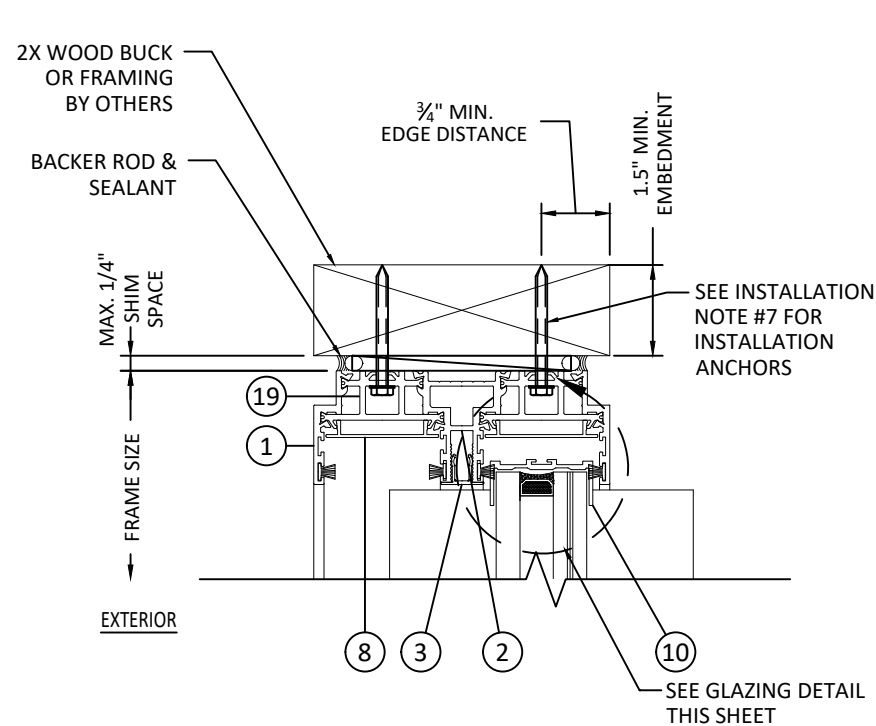
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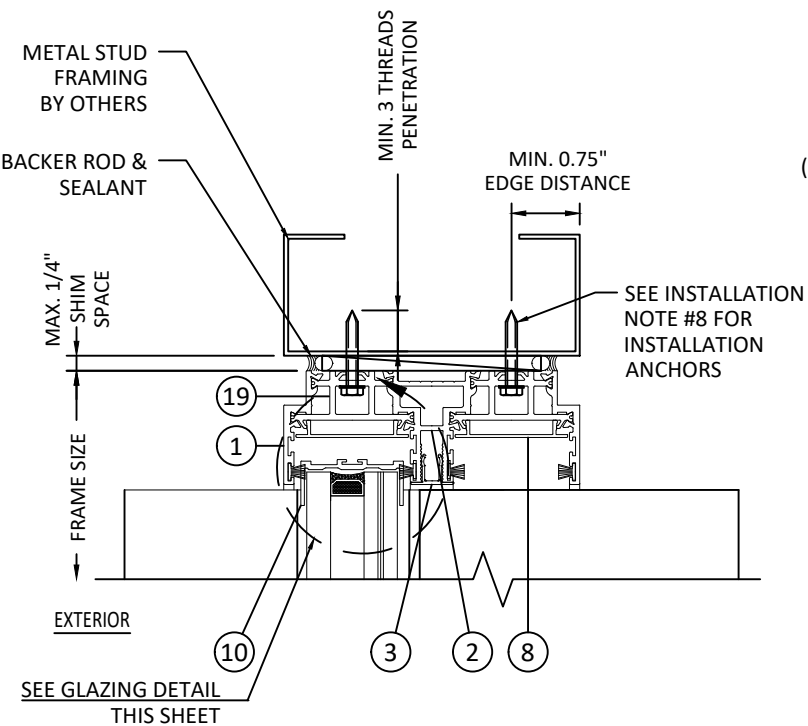


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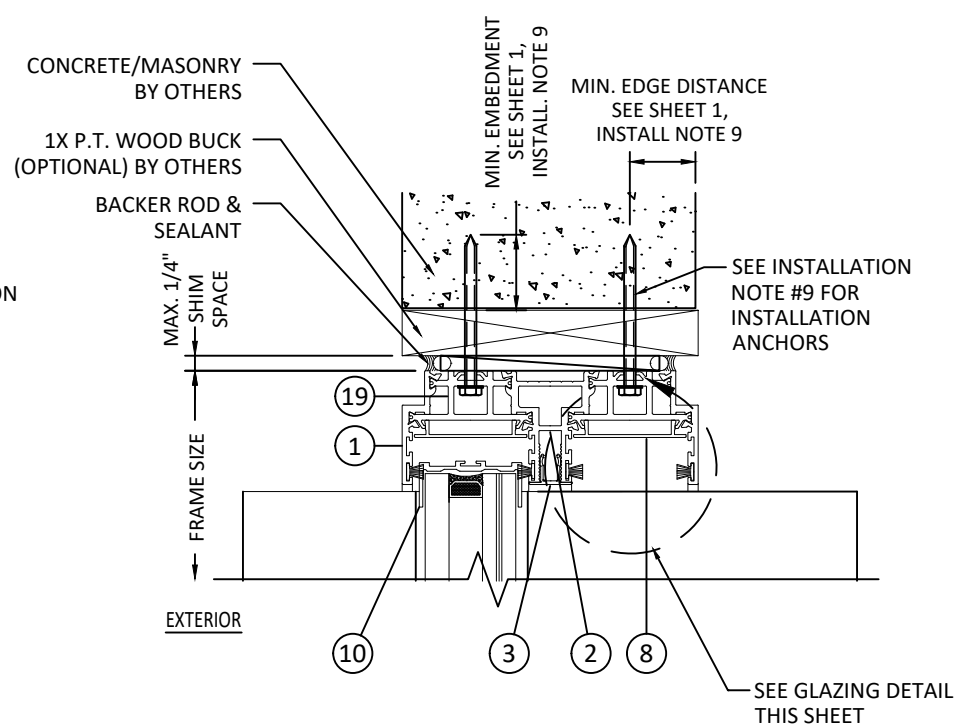
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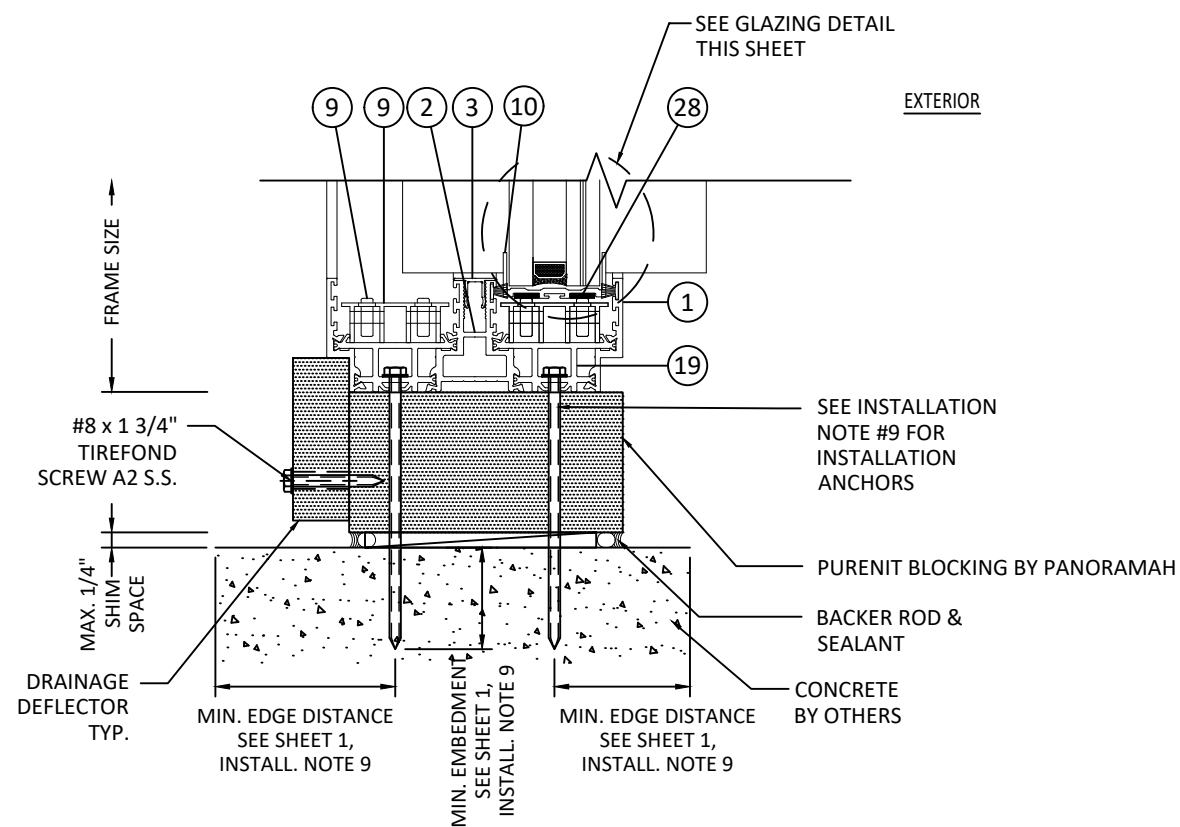
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4 **VERTICAL SECTION**
BIRAIL OPERABLE HEAD - TYP. INSTALL
2X WOOD FRAMING



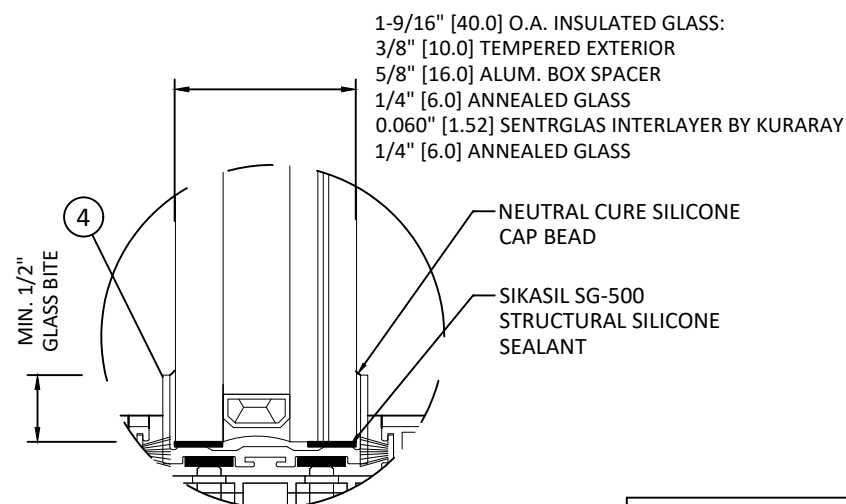
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4 **VERTICAL SECTION**
BIRAIL OPERABLE HEAD - TYP. INSTALL
METAL STUD



C
4 **VERTICAL SECTION**
BIRAIL OPERABLE HEAD - TYP. INSTALL
1X (OPTIONAL) TO CONCRETE/MASONRY



D
4 **VERTICAL SECTION**
BIRAIL OPERABLE SILL - TYP. INSTALL
STRUCTURAL BLOCKING - CONCRETE SLAB



GLAZING DETAIL

- GLAZING NOTES:
1. GLASS TYPE COMPLIES WITH ASTM E1300 REQUIREMENTS AS WELL AS APPLICABLE SAFETY GLAZING REQUIREMENTS PER THE FBC.
 2. SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN FBC CHAPTER 24.
 3. SETTING BLOCKS TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36" AS PER FBC CHAPTER 24.
 4. SIZES AND DESIGN PRESSURES MAY NOT EXCEED MAX VALUES IN SIZE CHARTS ON SHEET 2.

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unlimited perspective

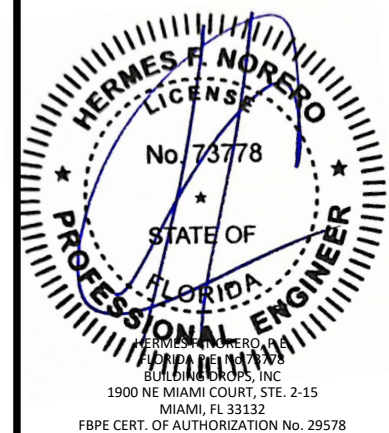
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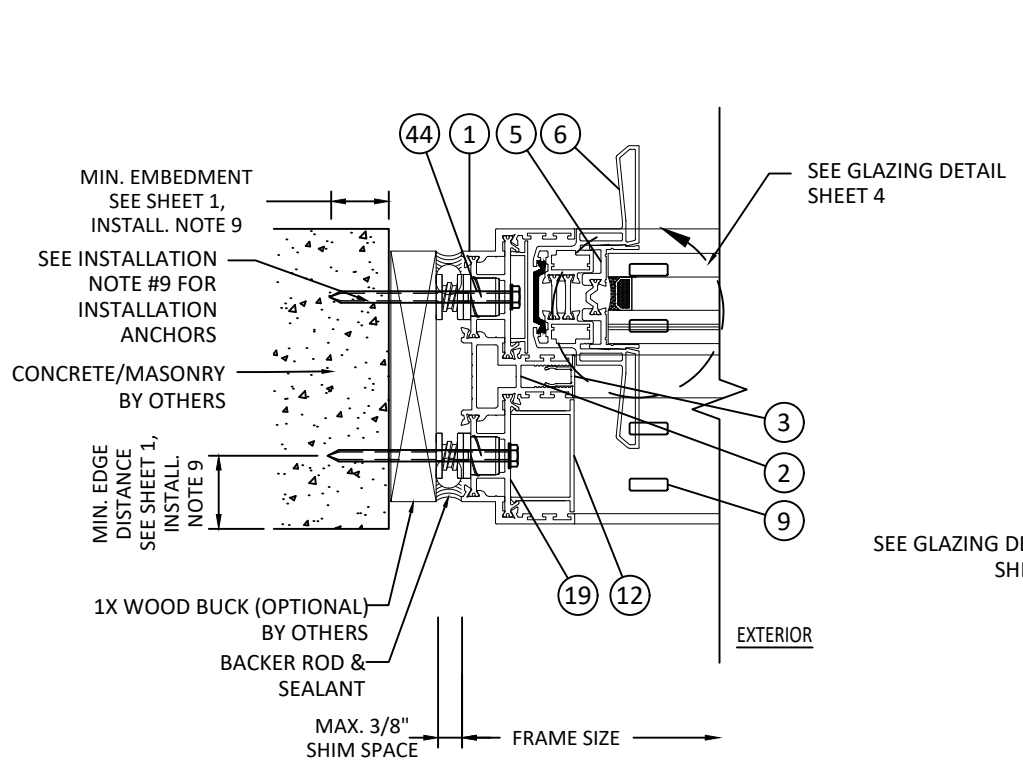
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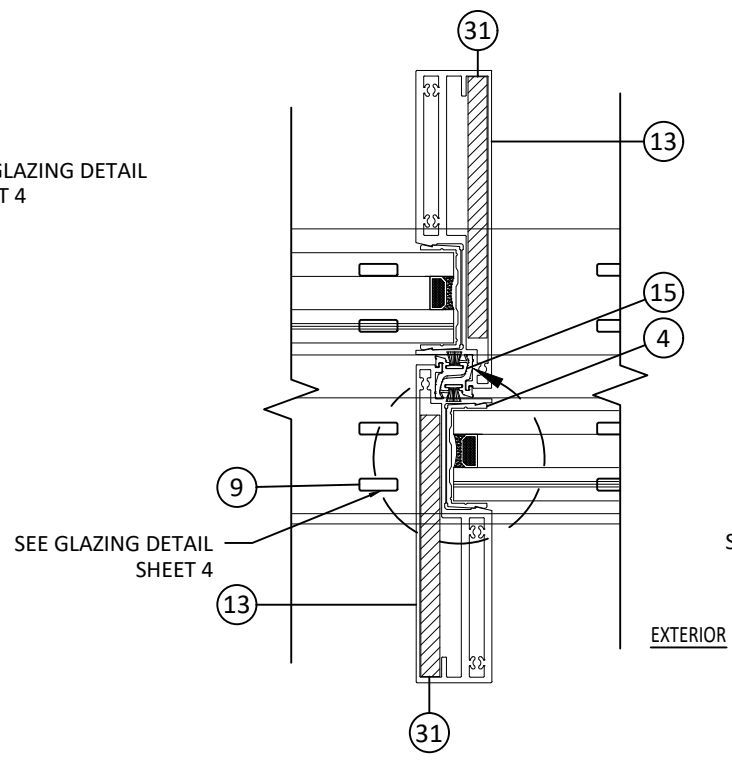


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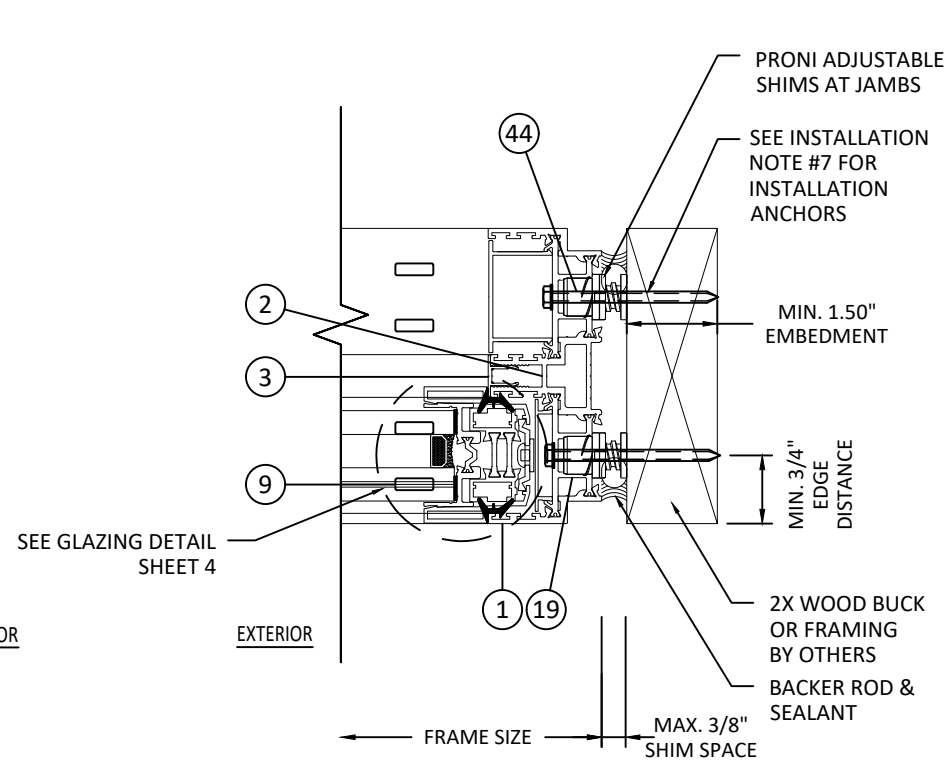
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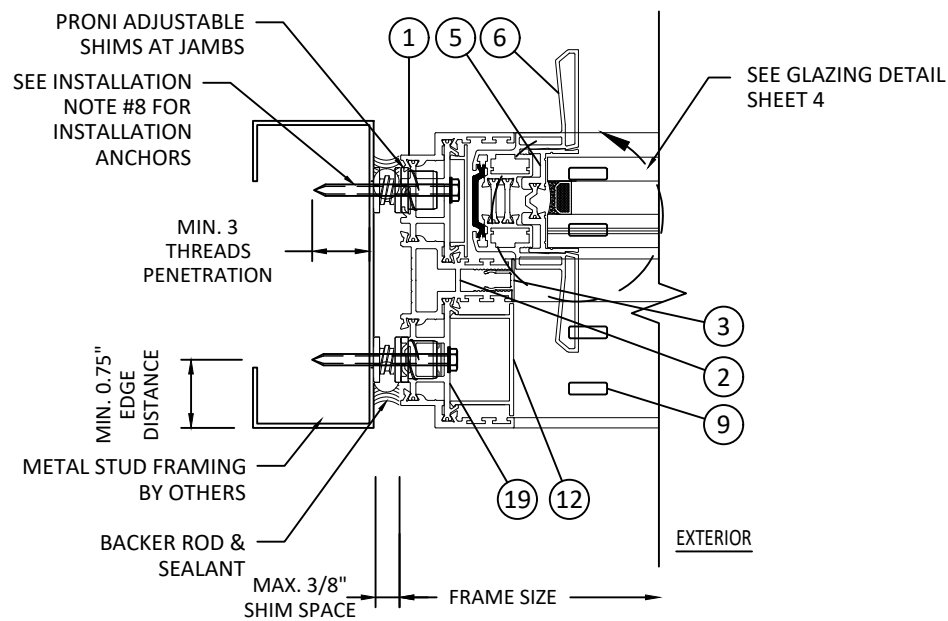
A
5 **HORIZONTAL SECTION**
BIRAIL JAMB - TYPICAL
1X WOOD BUCK TO CONC/MASONRY



B
5 **HORIZONTAL SECTION**
BIRAIL INTERLOCK - TYPICAL



C
5 **HORIZONTAL SECTION**
BIRAIL POCKET JAMB - TYP. INSTALLATION
2X WOOD FRAME



D
5 **HORIZONTAL SECTION**
FIXED JAMB - TYP. INSTALLATION
METAL STUD FRAME

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TWO PANEL
(HVHZ)(IMPACT)

HORIZONTAL SECTIONS

PREPARED BY:

BUILDING DROPS, INC.

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MIAMI, FL 33132

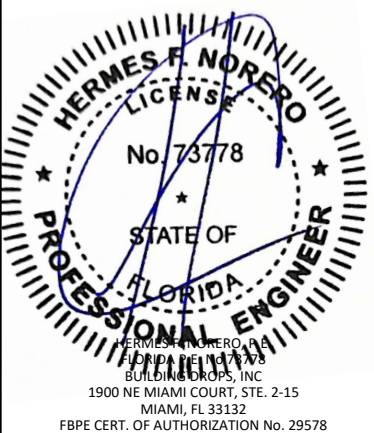
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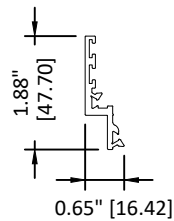


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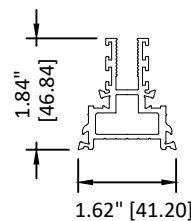
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EXTERIOR PROFILE FOR FIXED FRAME
6063-T5 ALUMINUM



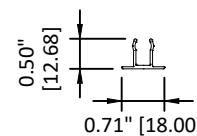
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INTERIOR PROFILE FOR FIXED FRAME
6063-T5 ALUMINUM



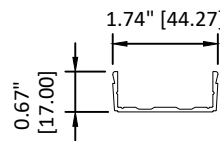
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INTERIOR PROFILE FOR FIXED CAP
6063-T5 ALUMINUM



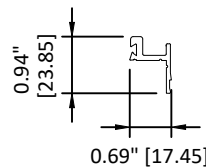
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GLASS U CHANNEL
6063-T5 ALUMINUM



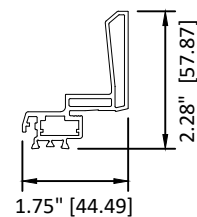
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GLASS U CHANNEL (HANDLE PROFILE)
6063-T5 ALUMINUM



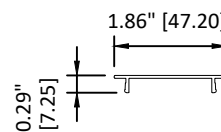
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HANDLE PROFILE WITH FLAP
6063-T5 ALUMINUM



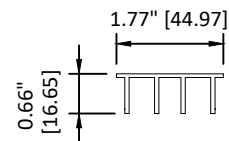
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LOW FRAME CAP
6063-T5 ALUMINUM



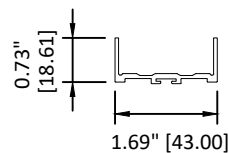
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BOTTOM TRACK WITH BEARINGS
6063-T5 ALUMINUM



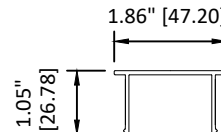
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GLASS U CHANNEL FOR BRASS
6063-T5 ALUMINUM



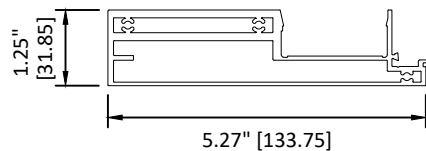
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HIGH FRAME CAP
6063-T5 ALUMINUM



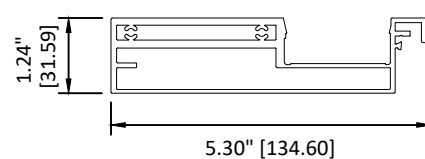
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PROFILE FOR STL REINFORCED MULLION
6063-T5 ALUMINUM



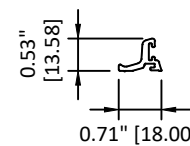
14

PROFILE FOR INVERTED STL REINFORCED MULLION
6063-T5 ALUMINUM



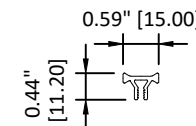
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POLYAMIDE FOR CENTRAL MULLIONS
PA 6.6 25%



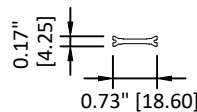
16

POLYAMIDE FOR HANDLE U CHANNEL
PA 6.6 25%



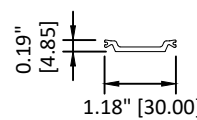
17

POLYAMIDE FOR HANDLE
PA 6.6 25%



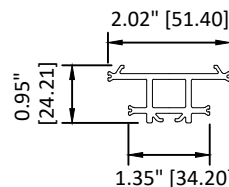
18

POLYAMIDE FOR LOCKING POINT SYSTEM
PA 6.6 25%



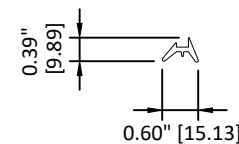
19

POLYAMIDE FOR FRAME
PA 6.6 25%



20

GASKET FOR FIXED PROFILE.
EPDM



PANORAMAH!
unlimited perspective

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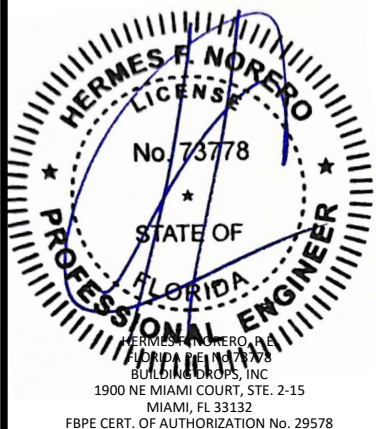
TITLE: PH38 SLIDING GLASS DOOR
TWO PANEL
(HVHZ)/(IMPACT)
COMPONENTS

PREPARED BY:
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1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
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REMARKS	BY	DATE
2026 FBC UPDATE	DB	08/26

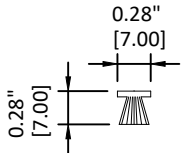
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FL #:	FL21091
DATE:	02.28.2020
DWG. BY:	CHK. BY:
SM	HFN
SCALE:	NTS
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SECTION:	REV.
6	A
OF 7	

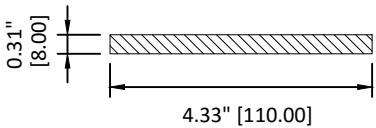
21

7x7mm PILE WEATHER STRIPS
POLYESTER MOHAIR



31

STAINLESS STEEL REINFORCEMENT 110x8
SS AISI 304



BILL OF MATERIALS			
ITEM#	REFERENCE	DESCRIPTION	MATERIAL
1	101001	EXTERIOR PROFILE FOR FIXED FRAME	6063-T5 ALUMINUM
2	101211	INTERIOR PROFILE FOR FIXED FRAME	6063-T5 ALUMINUM
3	101171	INTERIOR PROFILE FOR FIXED CAP	6063-T5 ALUMINUM
4	101005	GLASS U CHANNEL	6063-T5 ALUMINUM
5	101008	GLASS U CHANNEL HANDLE PROFILE	6063-T5 ALUMINUM
6	101212	HANDLE PROFILE WITH FLAP	6063-T5 ALUMINUM
7	-	-	-
8	101015	LOW FRAME CAP	6063-T5 ALUMINUM
9	101022	BOTTOM TRACK WITH BEARINGS	6063-T5 ALUMINUM
10	101026	GLASS U CHANNEL FOR BRASS	6063-T5 ALUMINUM
11	-	-	-
12	101176	HIGH FRAME CAP	6063-T5 ALUMINUM
13	101189	PROFILE FOR STEEL REINFORCED MULLION 110 x 8	6063-T5 ALUMINUM
14	101190	PROFILE FOR INVERTED STEEL REINFORCED MULLION 110 x 8	6063-T5 ALUMINUM
15	107004	POLYAMIDE FOR CENTRAL MULLIONS	PA 6.6 25% GLASS REINFORCED
16	107037	POLYAMIDE FOR HANDLE U CHANNEL	PA 6.6 25% GLASS REINFORCED
17	107005	POLYAMIDE FOR HANDLE	PA 6.6 25% GLASS REINFORCED
18	107029	POLYAMIDE FOR LOCKING POINT SYSTEM	PA 6.6 25% GLASS REINFORCED
19	107012	POLYAMIDE FOR FRAME	PA 6.6 25% GLASS REINFORCED
20	502001	GASKET FOR FIXED PROFILE	EPDM
21	501001 (REF: TECSEAL FIN CS 7x7)	7 x 7mm PILE WEATHER STRIPS	POLYESTER MOHAIR

BILL OF MATERIALS			
ITEM#	REFERENCE	DESCRIPTION	MATERIAL
22	202001. 040010301001	ALIGNMENT SET SQUARE 25,2 x 25,5 x 7, (1)	STAINLESS STEEL
23	202001. 010020106001	QUICK FASTENING SET-SQUARE MONTICELLI 460.8	STAINLESS STEEL
24	-	-	-
25	208003	TOP AND BOTTOM COVER - HANDLE	NYLON
26	-	INTERIOR TOP COVER - CENTRAL MULLION	NYLON
27	-	SUPERIOR TOP COVER - CENTRAL MULLION	NYLON
28	ASBARRALATAO	BRASS BAR WITH 10 x 2mm SECTION	BRASS
29	201066	ONE POINT LATCH FOR INVERTED CENTRAL MULLION (DEVELOPED AND MANUFACTURED BY JOFEBAR)	6060-T5 ALUMINUM
30	201229	MULTI POINT LOCK FOR HANDLE (DEVELOPED AND MANUFACTURED BY JOFEBAR)	-
31	-	STAINLESS STEEL REINFORCEMENT 110 x 8	SS AISI 304
32	-	6 x 50mm WOOD SCREW A2 SS	STEEL
33	-	6 x 80mm WOOD SCREW A2 SS	STEEL
34	-	4 x 45mm TIREFOND SCREW A2 SS	STEEL
35	-	M7 WASHER DIN 125-IA	STEEL
36	-	PRONI DIS. RAPID-BLOCK RB601/RB 603	STEEL
37	ACPPERN ORECART	PIN	STAINLESS STEEL
38	ACROLAM	BEARINGS (S 625 2RS)	STAINLESS STEEL
39	ACPANILHAS	SPACING WASHER 2,8mm THICKNESS	BRASS
40	-	DOUBLE INSULATION UNIT: 10mm TOUGHENED + 14mm ARGON 90% + 12 ANNEALED LAMINATED (1.5mm SENTRYGLAS INTERLAYER)	GLASS
41	-	IGU SPACER	3003 - H14
42	-	SETTING BLOCK	NEOPRENE
43	-	LEVELING SHIM	NEOPRENE
44	-	PRONI DIST. RAPID BLOCK RB601/RB603	STEEL



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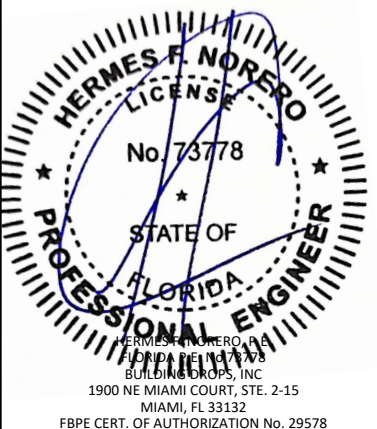
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