

AVIGLASS S.A DE C.V

SEICENTO FORTE MINIMAL

SLIDING GLASS DOOR

(IMPACT) (WIND ZONE 3)

GENERAL NOTES:

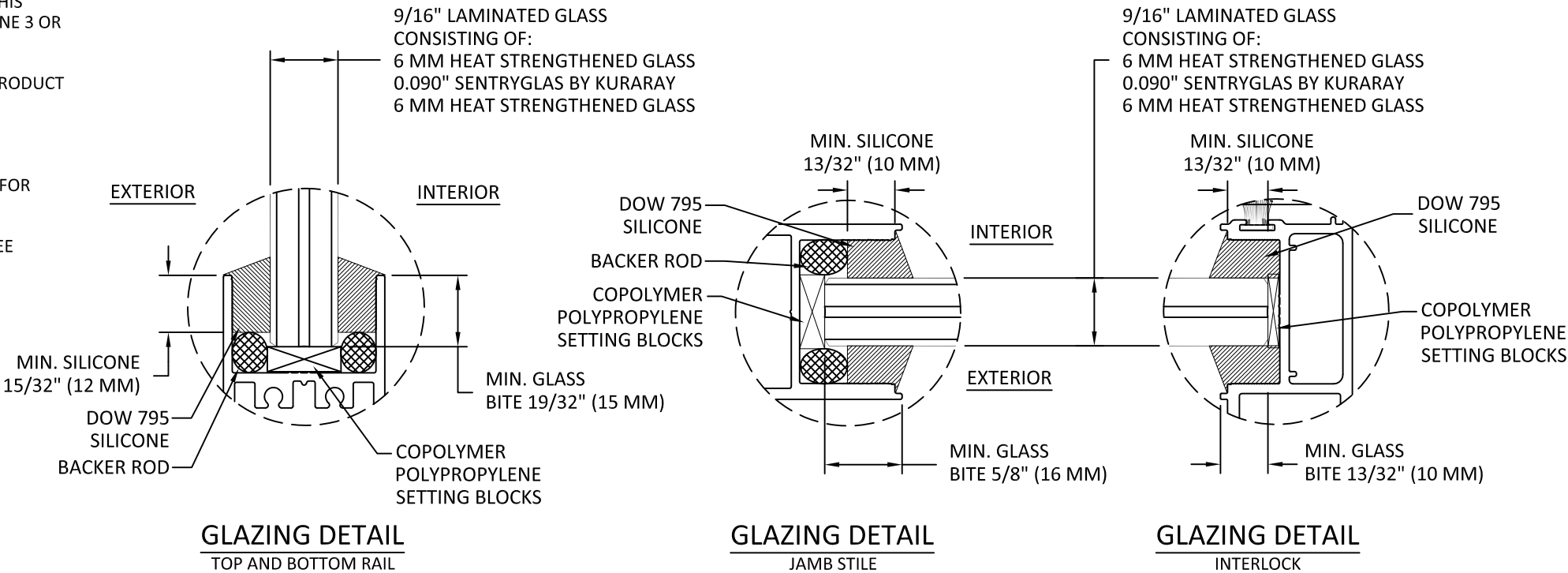
1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT EDITION FLORIDA BUILDING CODE (FBC), EXCLUDING HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
- AAMA/WDMA/CSA 101/I.S.2/A440-11
 - ASTM E1886-13
 - ASTM E1996-12
2. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 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.
5. APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE IN WIND ZONE 3 OR LESS.
6. APPROVED IMPACT PROTECTIVE SYSTEM **IS REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE IN WIND ZONE 4.
7. DOOR MATERIAL: 6005-T5, 6005-T6, & 6063-T5 ALUMINUM
8. GLASS MEETS THE REQUIREMENTS OF ASTM E1300. SEE SHEET 1 FOR GLAZING DETAILS.
9. QUALIFIED CONFIGURATIONS: OXX, XXO, XXX, XOX, OX, XO, XX. SEE SHEET 10 FOR XOX CONFIGURATION DETAILS.

GLAZING NOTES:

1. GLASS TYPE & THICKNESS 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, AT MINIMUM.

TABLE OF CONTENTS		
SHEET	REVISION	SHEET DESCRIPTION
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9	-	DRAINAGE DETAILS
10	-	XOX CONFIGURATION DETAILS

OVERALL SIZE	DESIGN PRESSURE	MISSILE IMPACT RATING
SEE SHEET 2	SEE SHEET 2	LARGE & SMALL MISSILE IMPACT



AVIGLASS S.A DE C.V
MAIZ 180-2, GRANJAS ESMERALDA,
IZTAPALAPA, 09810, CIUDAD DE MÉXICO, MEXICO
PH: (01 55) 56 70 03 57 FX: (01 55) 56 70 03 37

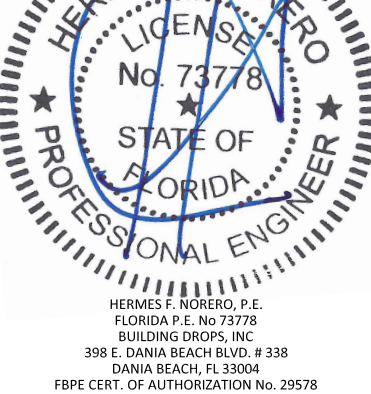
TITLE:
MINIMAL SERIES SLIDING
GLASS DOOR
GENERAL NOTES & GLAZING DETAIL

PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE

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Digitally signed by Hermes F. Norero
Reason: I am approving this document
Date: 2020.04.09 22:55:48 -0400



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DATE:
02.03.20

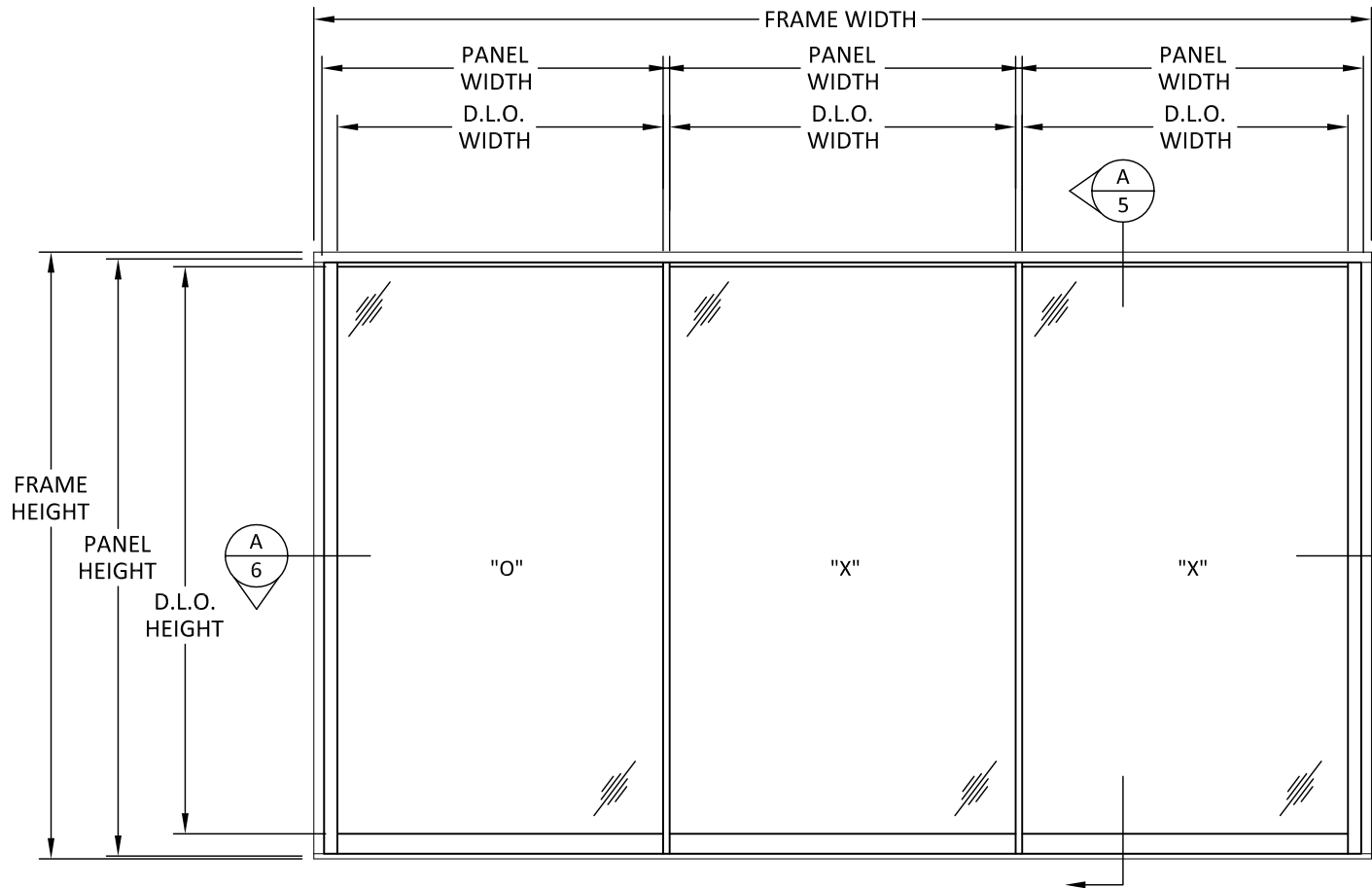
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SM

CHK. BY:
HFN

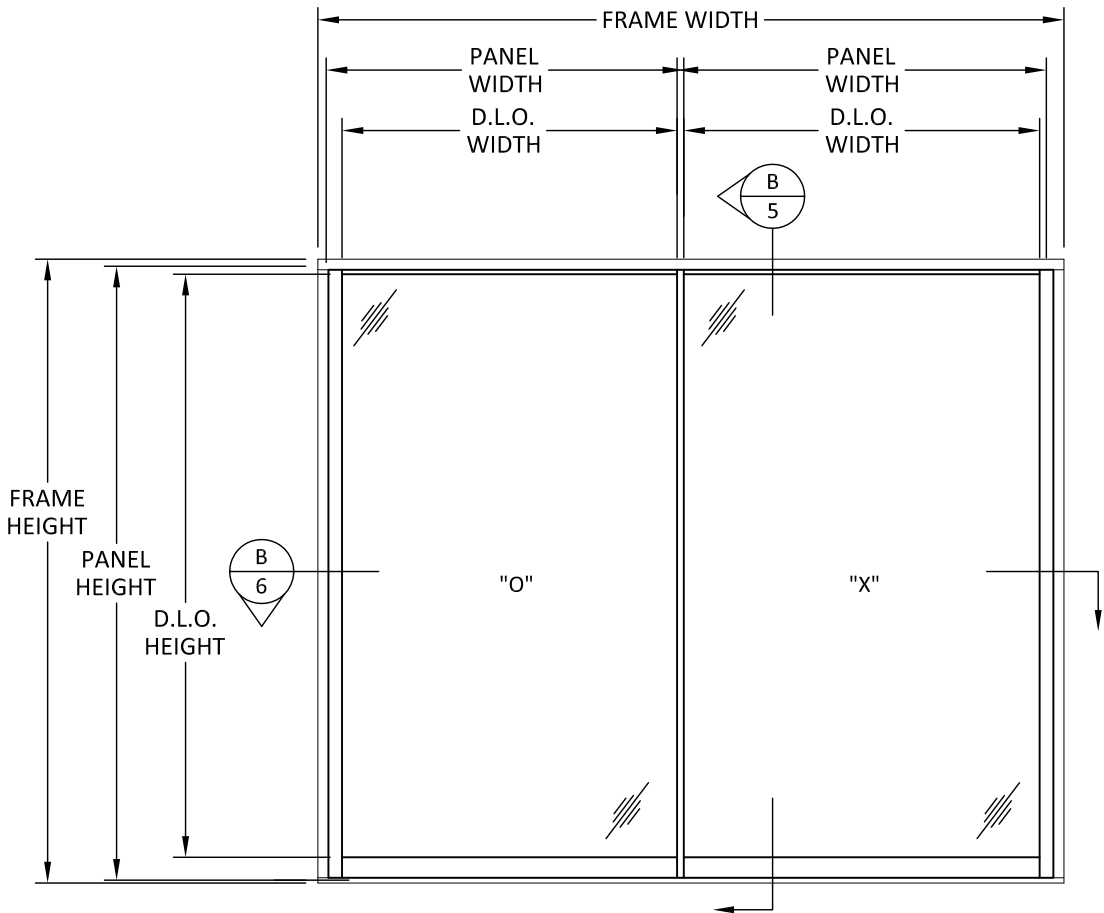
SCALE:
NTS

DWG. #:
AVI003

SHEET:
1
OF 10



ELEVATION
THREE PANEL SLIDING GLASS DOOR



ELEVATION
TWO PANEL SLIDING GLASS DOOR

FRAME SIZE

FOR THREE PANEL - THREE TRACK DOOR
FRAME WIDTH = PANEL WIDTH X 3 - 1.5"
FRAME HEIGHT = PANEL HEIGHT + 2.086"

FOR TWO PANEL - TWO TRACK DOOR
FRAME WIDTH = PANEL WIDTH X 2 - 1.5"
FRAME HEIGHT = PANEL HEIGHT + 2.086"

DAYLIGHT OPENING (D.L.O.) SIZE

DLO WIDTH = NOMINAL PANEL WIDTH - 3.75"
DLO HEIGHT = PANEL HEIGHT - 5.10"

NOTE: FOR THREE PANEL DOORS, NOMINAL PANEL WIDTH FROM TABLE IS FOR END PANELS, AND CENTER PANEL HAS A PANEL WIDTH 1-5/8" SMALLER.

DESIGN PRESSURE TABLE (PSF)														
PANEL HEIGHT (INCHES)	NOMINAL PANEL WIDTH (INCHES)													
		36	39	42	45	48	51	54	57	60.5	63	66	69	72
	84	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	76.8	73.3	70.1	67.2
	87	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	76.8	73.3	70.1	-
	90	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	76.8	73.3	-	-
	93	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	76.8	-	-	-
	96	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	76.8	-	-	-
	99	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	-	-	-	-
	100	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	-	-	-	-
	105	80.0	80.0	80.0	80.0	80.0	77.6	74.1	71.1	-	-	-	-	-
	108	80.0	80.0	80.0	78.7	74.5	70.9	67.7	-	-	-	-	-	-
	111	80.0	80.0	76.7	72.2	68.3	65.0	62.0	-	-	-	-	-	-
	114	80.0	75.4	70.6	66.4	62.8	59.7	-	-	-	-	-	-	-
	117	74.9	69.6	65.1	61.3	57.9	55.0	-	-	-	-	-	-	-
	120	69.3	64.4	60.2	56.6	53.5	-	-	-	-	-	-	-	-
	123	64.2	59.7	55.8	52.4	49.5	-	-	-	-	-	-	-	-
	126	59.7	55.4	51.8	48.6	45.9	-	-	-	-	-	-	-	-
	129	55.5	51.5	48.1	45.2	-	-	-	-	-	-	-	-	-
	132	51.7	48.0	44.8	42.1	-	-	-	-	-	-	-	-	-
	135	48.3	44.8	41.8	-	-	-	-	-	-	-	-	-	-
	138	45.2	41.9	39.1	-	-	-	-	-	-	-	-	-	-
	141	42.3	39.2	36.6	-	-	-	-	-	-	-	-	-	-
	144	39.7	36.8	34.3	-	-	-	-	-	-	-	-	-	-



AVIGLASS S.A DE C.V
MAIZ 180-2, GRANJAS ESMERALDA,
IZTAPALAPA, 09810, CIUDAD DE MÉXICO, MEXICO
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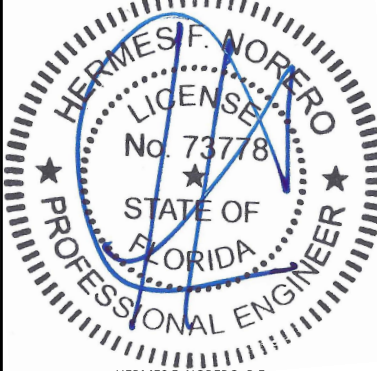
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ELEVATIONS AND DP TABLE

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398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954)399-8478
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HERMES F. NORERO, P.E.
FLORIDA P.E. No 73778
BUILDING DROPS, INC
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

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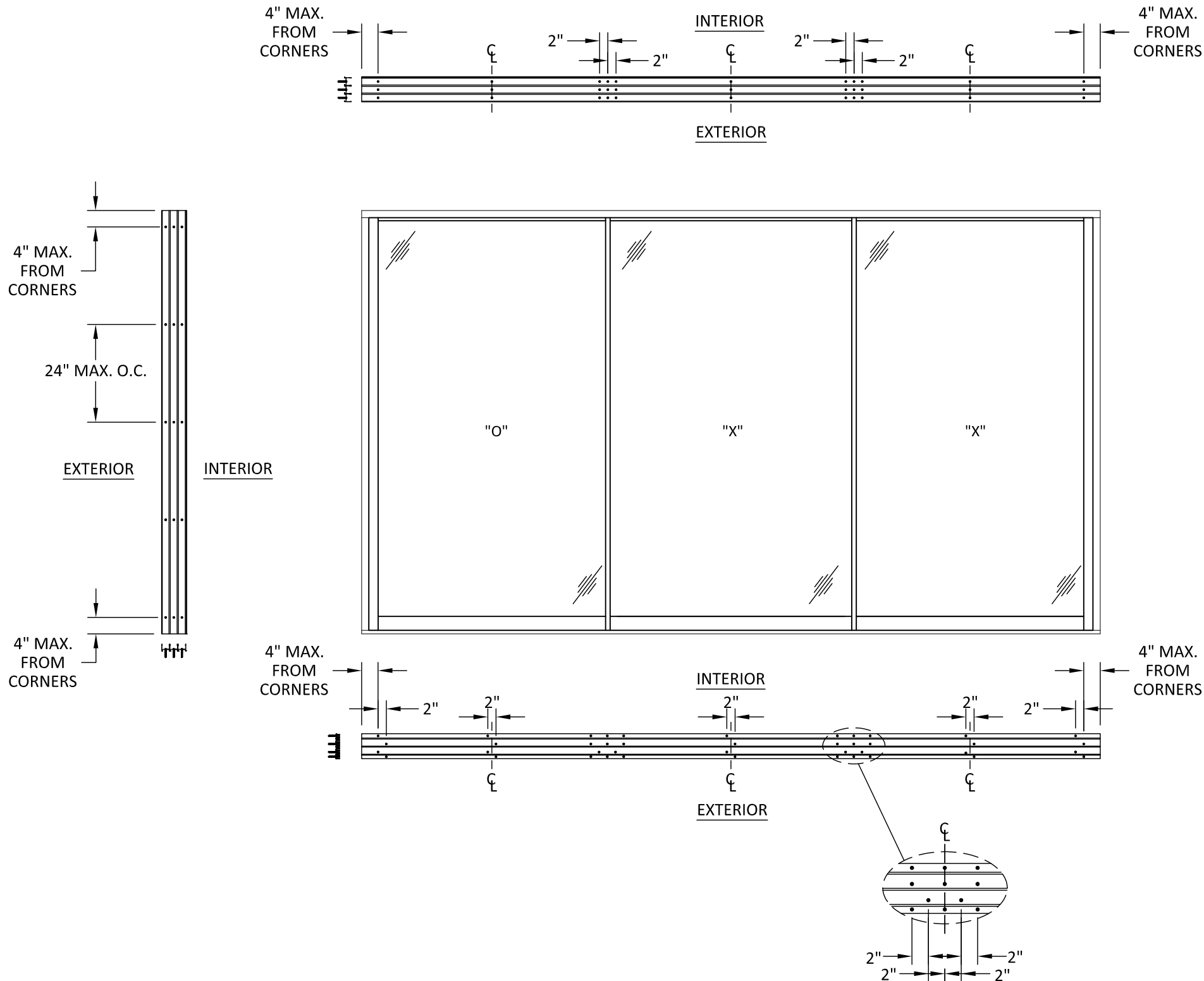
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DWG. #: **AVI003**

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2
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ANCHOR LAYOUT
THREE PANEL SLIDING GLASS DOOR
THROUGH FRAME



AVIGLASS S.A DE C.V
MAIZ 180-2, GRANJAS ESMERALDA,
IZTAPALAPA, 09810, CIUDAD DE MÉXICO, MEXICO
PH: (01 55) 56 70 03 57 FX: (01 55) 56 70 03 37

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THREE PANEL
ANCHOR LAYOUT**

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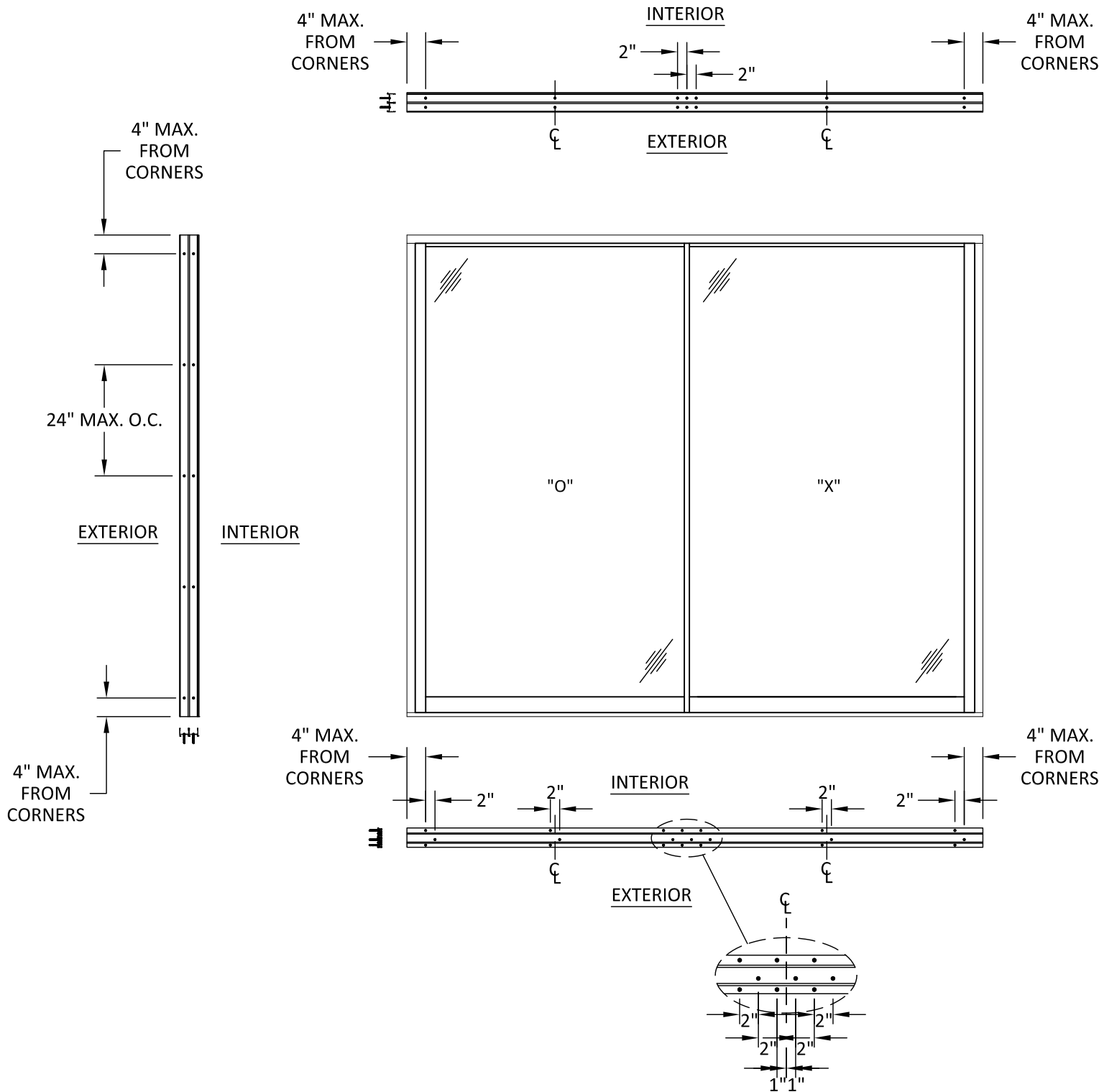
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ANCHOR LAYOUT
TWO PANEL SLIDING GLASS DOOR
THROUGH FRAME



AVIGLASS S.A DE C.V
MAIZ 180-2, GRANJAS ESMERALDA,
IZTAPALAPA, 09810, CIUDAD DE MÉXICO, MEXICO
PH: (01 55) 56 70 03 57 FX: (01 55) 56 70 03 37

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TWO PANEL
ANCHOR LAYOUT

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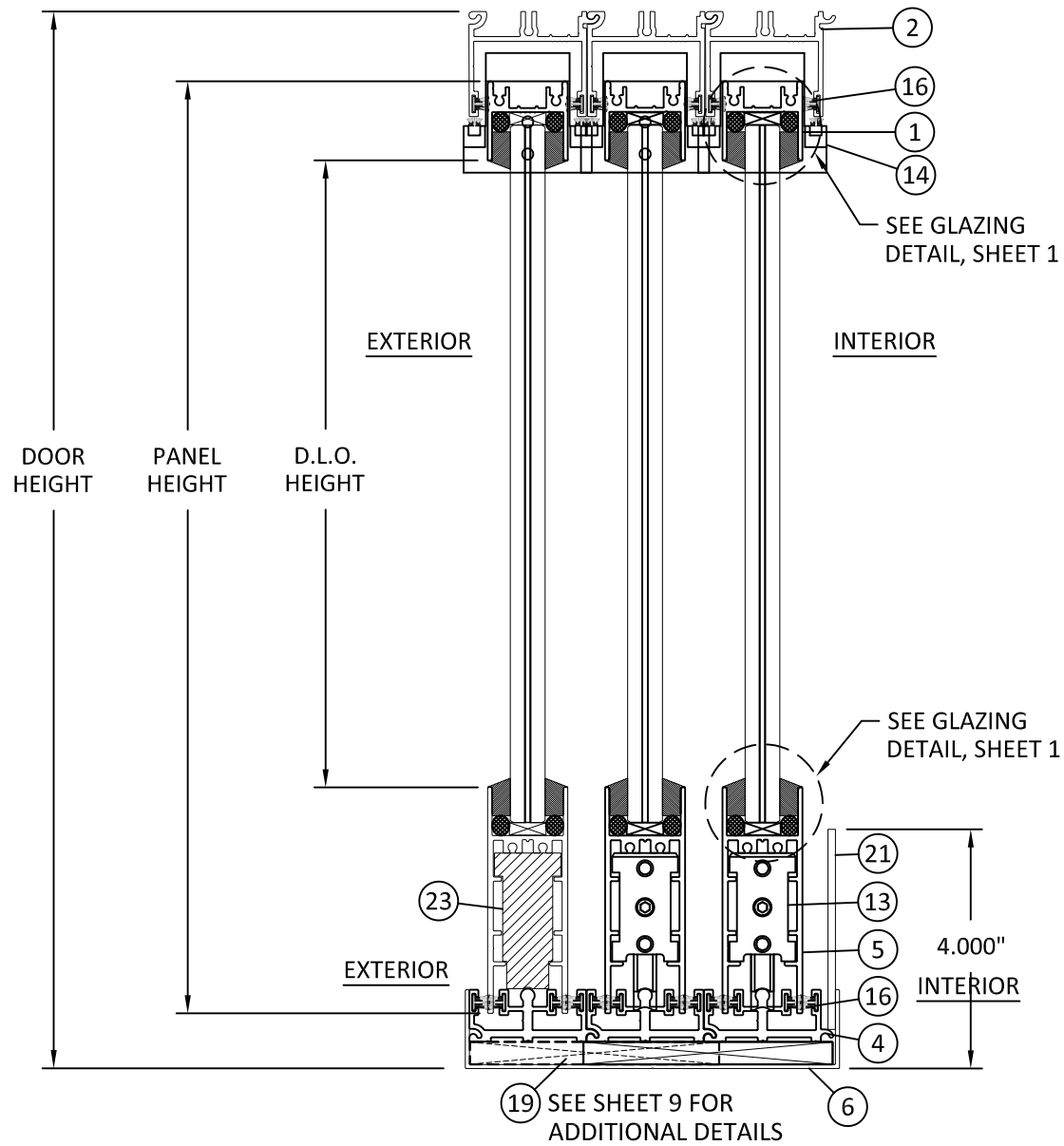
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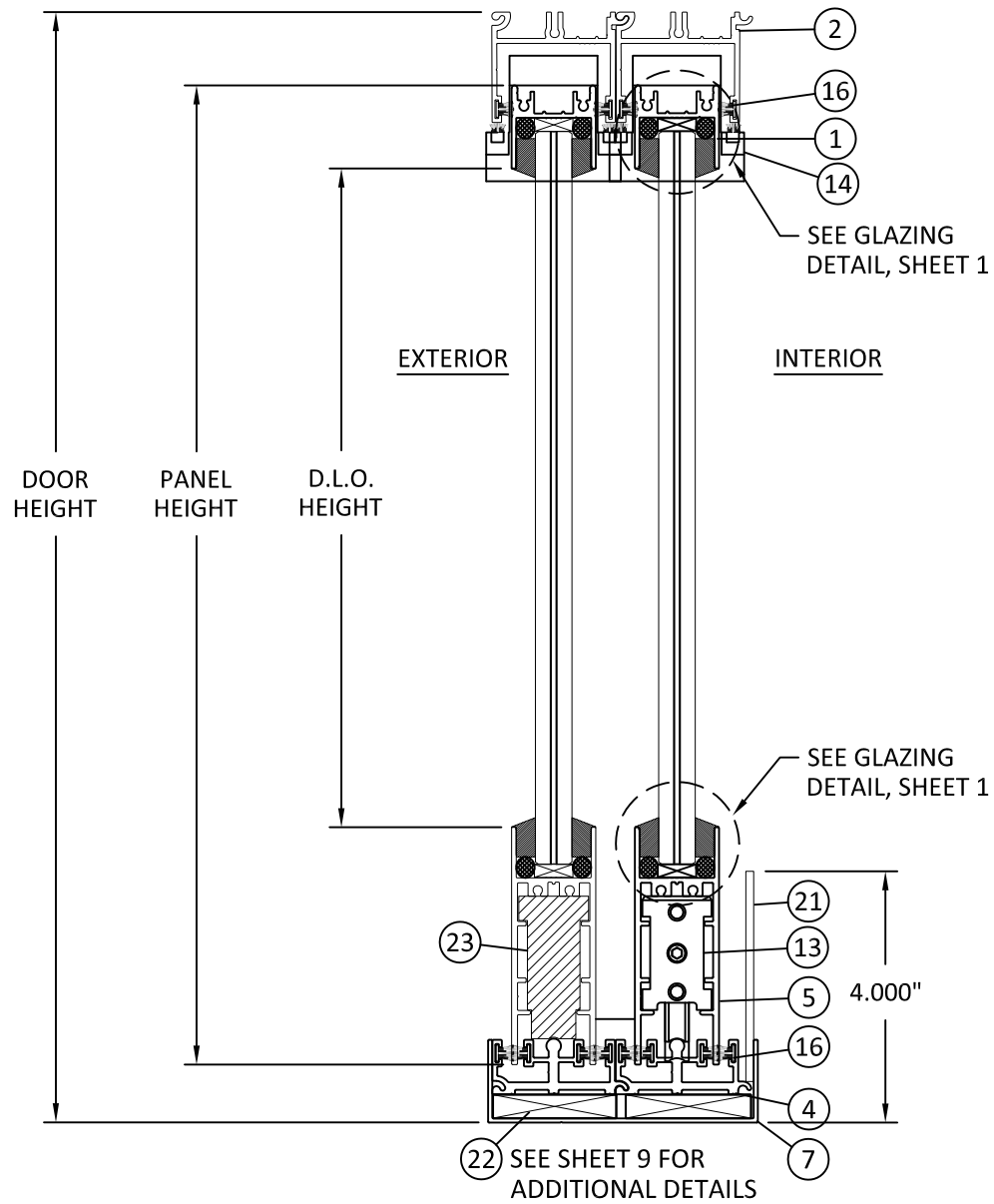
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A
5 **VERTICAL SECTION**
THREE PANEL - THREE TRACK

NOTE:
SEE SHEET 9 FOR
DRAIN PAN DETAILS



B
5 **VERTICAL SECTION**
TWO PANEL - TWO TRACK



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IZTAPALAPA, 09810, CIUDAD DE MÉXICO, MEXICO
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GLASS DOOR

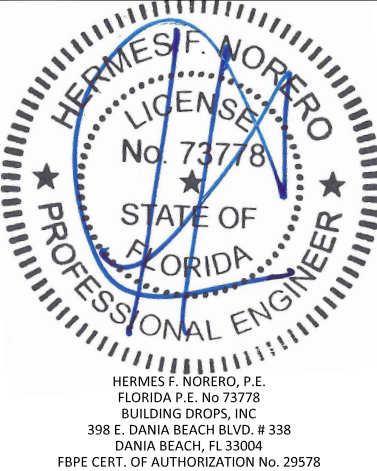
VERTICAL SECTIONS

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BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954)399-8478
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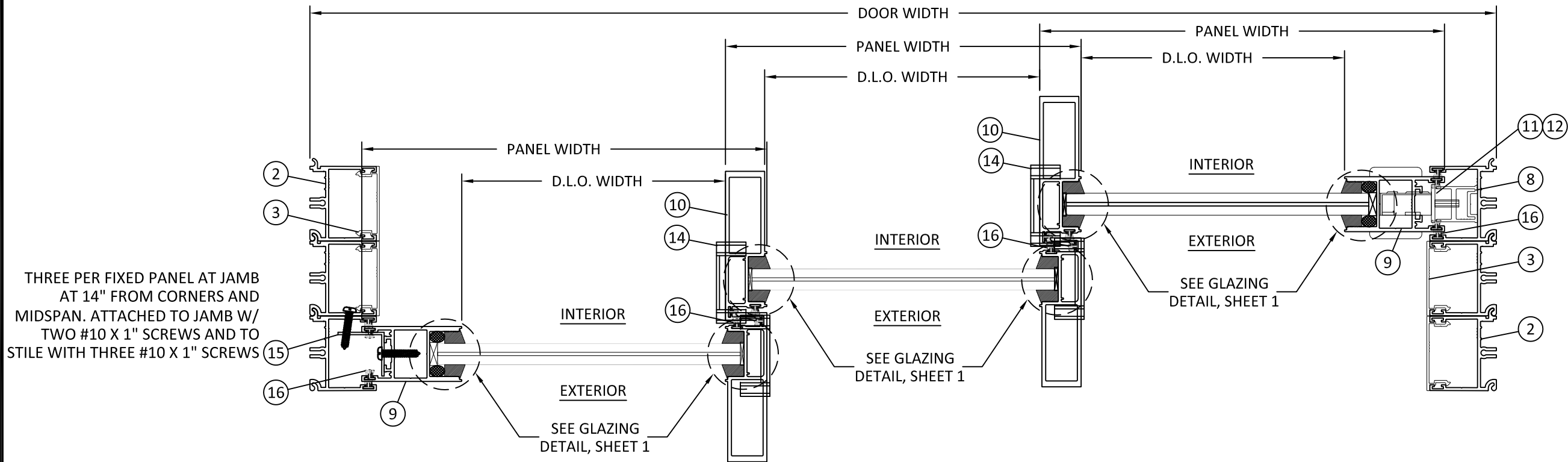
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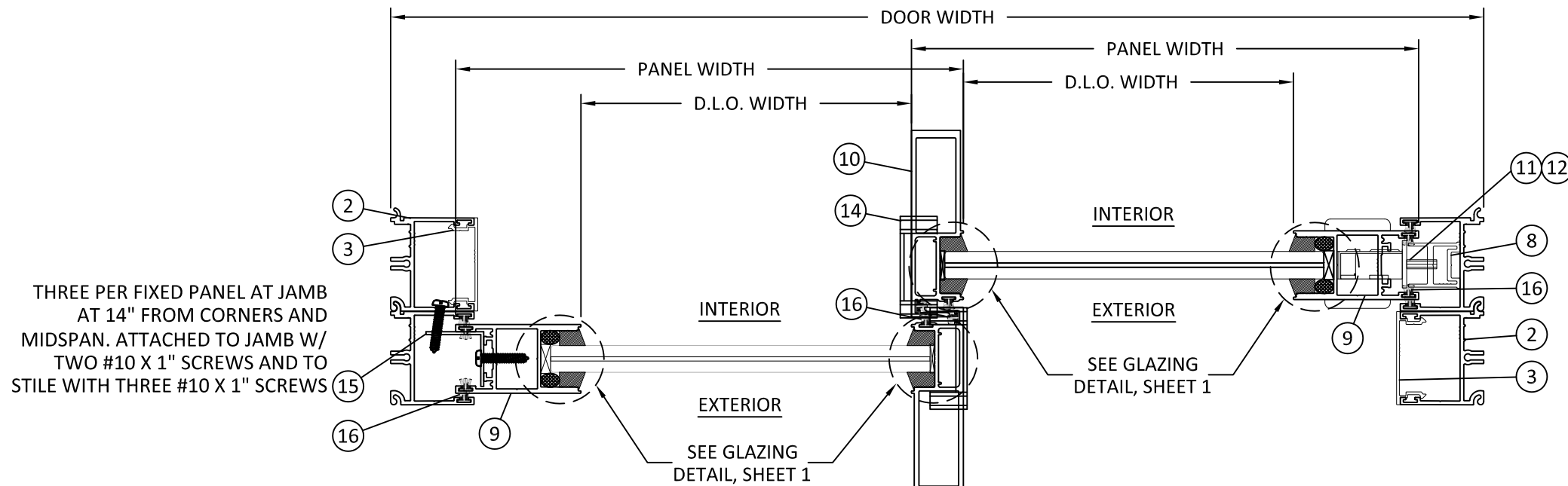
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A
6 **HORIZONTAL SECTION**
THREE PANEL - THREE TRACK



B
6 **HORIZONTAL SECTION**
TWO PANEL - TWO TRACK

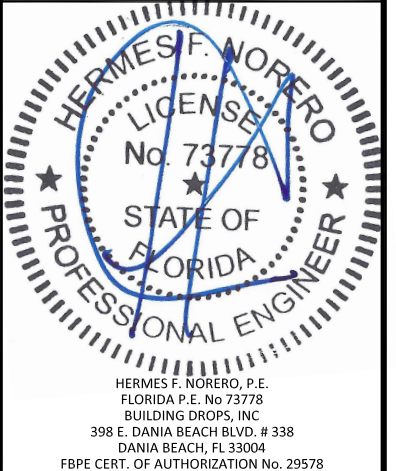


AVIGLASS S.A DE C.V
MAIZ 180-2, GRANJAS ESMERALDA,
IZTAPALAPA, 09810, CIUDAD DE MÉXICO, MEXICO
PH: (01 55) 56 70 03 57 FX: (01 55) 56 70 03 37

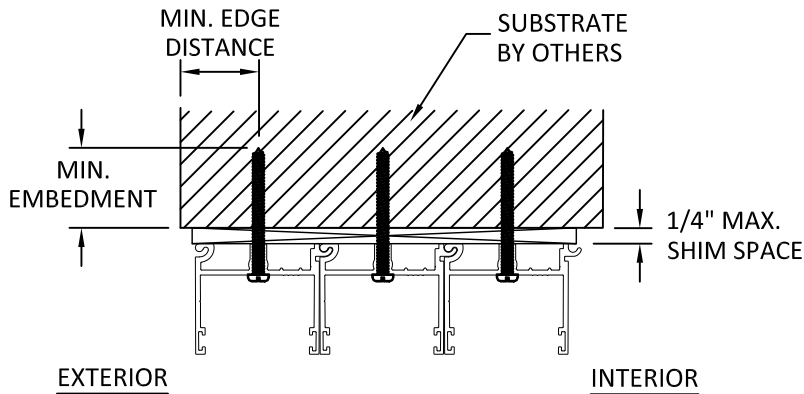
TITLE: MINIMAL SERIES SLIDING GLASS DOOR	HORIZONTAL SECTION	
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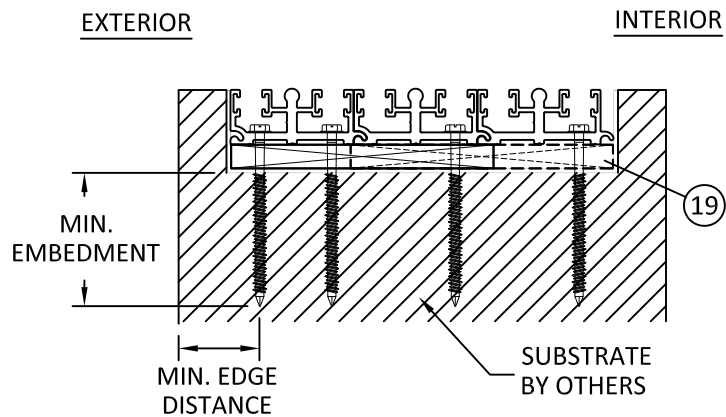


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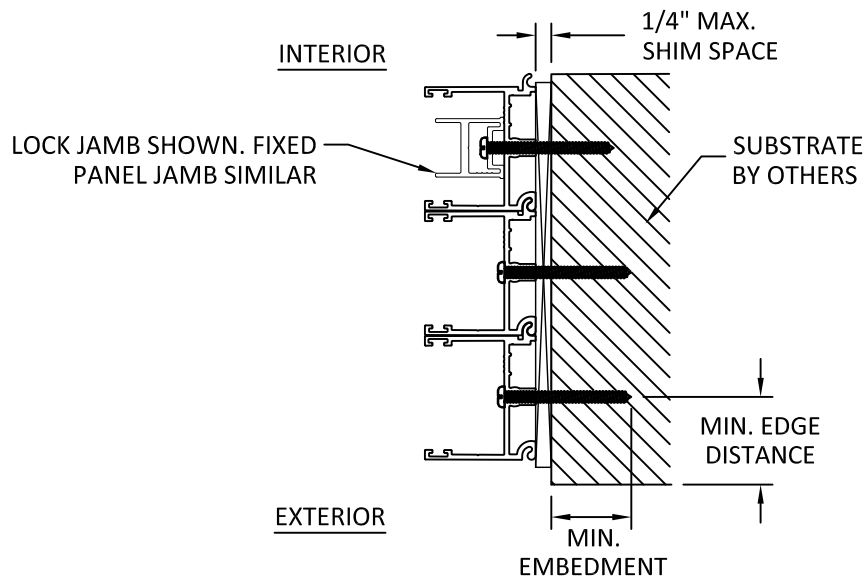
A
7 **VERTICAL SECTION**
THROUGH FRAME - HEAD

NOTE:
THREE TRACK DETAILS SHOWN, TWO
TRACK DETAILS SIMILAR. SEE SHEETS
3 AND 4 FOR FURTHER QUANTITY,
LOCATION, AND SPACING DETAILS.



C
7 **VERTICAL SECTION**
THROUGH FRAME - SILL

- SILL INSTALLATION NOTES:
1. POSITION DRAINAGE TUBES AS REQUIRED BY DETAIL A/9, AND PREPARE HOLES IN DRAIN PAN (ITEM #6 OR 7), AND ROUTE TUBES THROUGH PAN, SEALING WITH SILICONE.
 2. PLACE ALUMINUM BARS (ITEM #19) AT 5" O.C., STAGGERING PLACEMENT TO BE FLUSH WITH INTERIOR AND EXTERIOR SIDE OF DRAIN PAN.
 3. DRILL HOLES THOUGH DRAIN PAN FOR INSTALLATION ANCHORS AT LOCATIONS SPECIFIED ON SHEETS 3 AND 4, AND COVER HOLES WITH SEALANT.
 4. PLACE SILL TRACK (ITEM #4) OVER ALUMINUM BARS, WITH CLEARANCE HOLES ALIGNED TO THE ANCHOR HOLES IN THE DRAIN PAN AND INSTALL INSTALLATION ANCHORS



B
7 **VERTICAL SECTION**
THROUGH FRAME - LOCK JAMB

ANCHOR SCHEDULE					
METHOD	SUBSTRATE	ANCHOR SCHEDULE	MIN EMBEDMENT	MIN. EDGE DISTANCE	MIN. SPACING BETWEEN SCREWS
THROUGH FRAME	WOOD: MIN. SG = 0.55	#10 WOOD SCREW	1.5"	0.75"	1.0"
	CONCRETE: MIN. 3000 PSI	3/16" ITW TAPCON	1.25"	2.5"	2.0"
	MASONRY: MIN. 1500 PSI ASTM C90 HOLLOW BLOCK				
	STEEL: MIN. 18 GAUGE, MIN. Fy = 33 KSI	#10 SELF-DRILLING OR SELF-TAPPING SCREW	3 THREADS MIN PENETRATION BEYOND METAL	0.75"	1.0"
	ALUMINUM: MIN. 0.125", MIN. Fy = 16 KSI				

INSTALLATION NOTES:

1. ONE (1) INSTALLATION ANCHOR IS 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 ±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 WITH LOAD BEARING SHIM(S) AT OR ADJACENT TO ANCHOR LOCATIONS AND AS NEEDED TO ACHIEVE A SQUARE AND PLUMB INSTALLATION. 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.
5. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
6. INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
7. 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.



AVIGLASS S.A DE C.V
MAIZ 180-2, GRANJAS ESMERALDA,
IZTAPALAPA, 09810, CIUDAD DE MÉXICO, MEXICO
PH: (01 55) 56 70 03 57 FX: (01 55) 56 70 03 37

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ANCHOR DETAILS &
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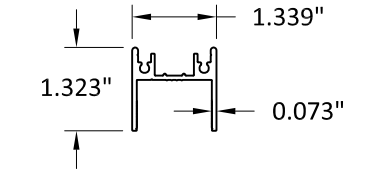
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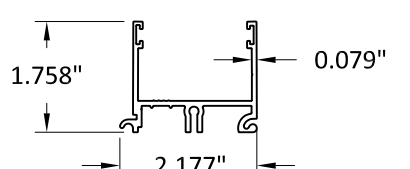
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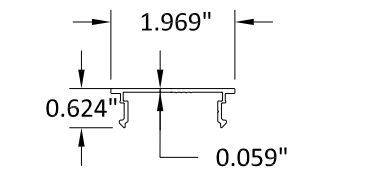
BILL OF MATERIALS				
ITEM NUMBER	PART NUMBER	DESCRIPTION	MATERIAL	NOTES
1	SE-2432	TOP RAIL	6063-T5	
2	SE-2435	FRAME TRACK (HEAD & JAMB)	6063-T5	
3	SE-2436	JAMB COVER	6063-T5	
4	SE-2440	SILL TRACK	6005-T6	
5	SE-2443	BOTTOM RAIL	6063-T5	
6	SE-2448	THREE TRACK DRAIN PAN	6063-T5	
7	SE-2449	TWO TRACK DRAIN PAN	6063-T5	
8	SE-2451	JAMB STILE ADAPTOR	6063-T5	
9	SE-2452	JAMB STILE	6063-T5	
10	SE-2453	INTERLOCK	6005-T5	
11	-	TRUTH NEXUS 2-PT MORTISE LOCK	STAINLESS STEEL	
12	-	TRUTH 2-PT KEEPER	STAINLESS STEEL	
13	-	PABOSE TANDEM ROLLER ASSEMBLY	STAINLESS STEEL	PART NO. GTT 280/460 HKA
14	-	SASH ALIGNMENT CLIP	6063-T5	AT TOP OF INTERLOCKS ON EXTERIOR W/ TWO #10x1" SCREWS
15	-	FIXED PANEL ANGLE (4" x 1-7/32" x 1/16")	6063-T5	SEE SHEET 6
16	-	PILE WEATHERSTRIPPING W/ FIN	-	0.280" X 0.280"
17	-	#8 x 3-1/4" FH SS SCREWS	STAINLESS STEEL	THREE PER FRAME CORNER
18	-	#8 x 2" FH SS SCREWS	STAINLESS STEEL	TWO PER PANEL CORNER
19	-	2" x 4" x 3/8" ALUMINUM BAR	6063-T5	5" O.C. UNDER TRACK
20	-	DRAIN PAN END DAM	6063-T5	
21	-	0.090" x 3.35" MIN. FLAT BAR	6063-T5 MIN.	USED AS SILL RISER. REQ'D FOR WATER RATING. 4" OVERALL HEIGHT FROM BOTTOM.
22	-	2" x 2" x 3/8" ALUMINUM BAR	6063-T5	5" O.C. UNDER TRACK
23	-	FIXED PANEL SETTING BLOCK	POLYMER	
24	-	1 3/8" x 4" x 3/8" ALUMINUM BAR	6063-T5	UNDER SILL, SEE SHEET 9
25	-	1 3/8" x 2" x 3/8" ALUMINUM BAR	6063-T5	UNDER SILL, SEE SHEET 9
26	-	1 ¼" x ⅝" ALUM. ANGLE 1 ½" LENGTH	6063-T5	FOR XOX FIXED PANEL HEAD



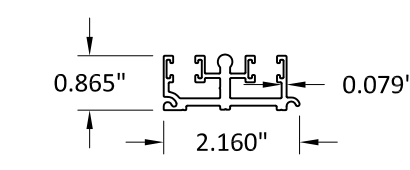
1 TOP RAIL
6063-T5 ALUMINUM



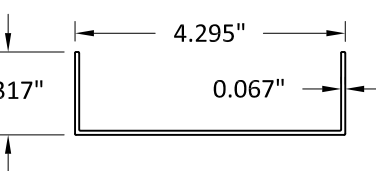
2 FRAME TRACK (HEAD & JAMB)
6063-T5 ALUMINUM



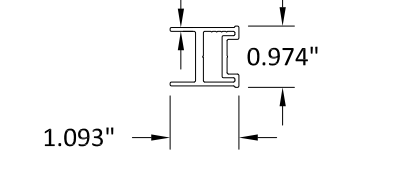
3 JAMB COVER
6063-T5 ALUMINUM



4 SILL TRACK
6005-T6 ALUMINUM



7 TWO TRACK DRAIN PAN
6063-T5 ALUMINUM



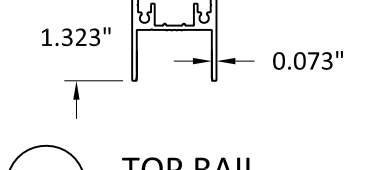
8 JAMB STILE ADAPTOR
6063-T5 ALUMINUM



6 THREE TRACK DRAIN PAN
6063-T5 ALUMINUM



5 BOTTOM RAIL
6063-T5 ALUMINUM



10 INTERLOCK
6005-T5 ALUMINUM



9 JAMB STILE
6063-T5 ALUMINUM



AVIGLASS S.A DE C.V
MAIZ 180-2, GRANJAS ESMERALDA,
IZTAPALAPA, 09810, CIUDAD DE MÉXICO, MEXICO
PH: (01 55) 56 70 03 57 FX: (01 55) 56 70 03 37

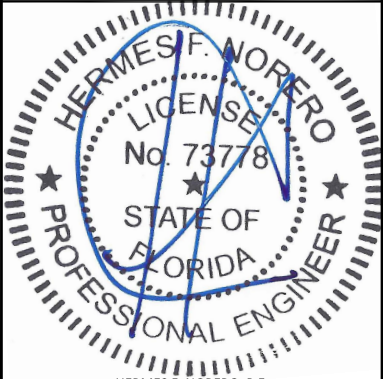
TITLE: MINIMAL SERIES SLIDING GLASS DOOR
BILL OF MATERIALS, AND COMPONENTS, AND DRAINAGE DETAIL

PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE

THE INSTALLATION DETAILS DESCRIBED HERE IN 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.



HERMES F. NORERO, P.E.
FLORIDA P.E. No 73778
BUILDING DROPS, INC
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:
FL31767

DATE: **02.03.20**

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

SCALE: **NTS**

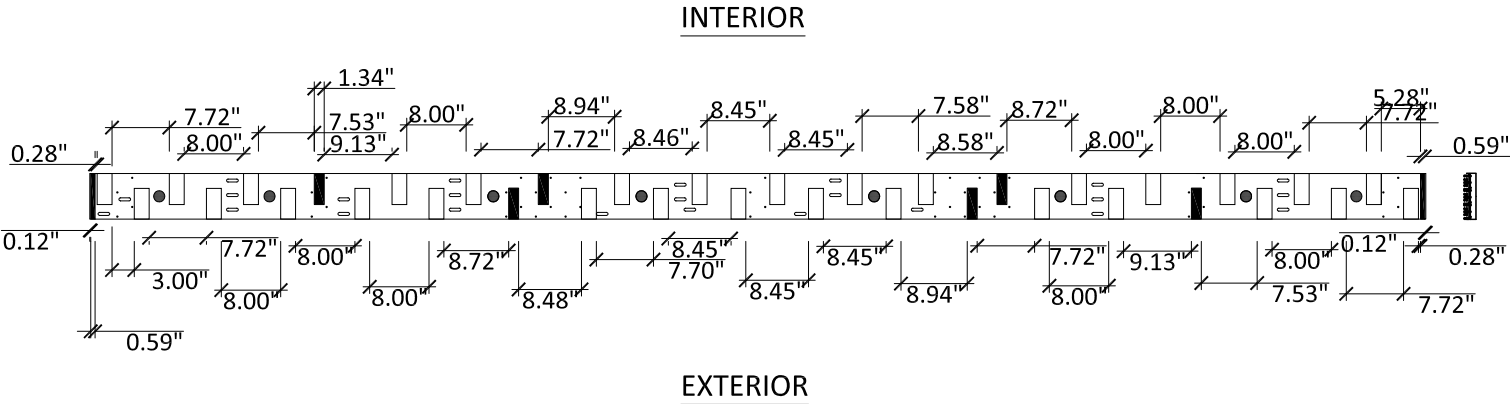
DWG. #: **AVI003**

SHEET:
8

OF 10

s:\projects\aviglass.s.a.de.c.v\fb-c-19-0344-3 (minimal series sliding glass door-3 panel or less)\dwg\av003-sicento-for-te-minimal-w3.dwg 4/9/2020 9:34 PM

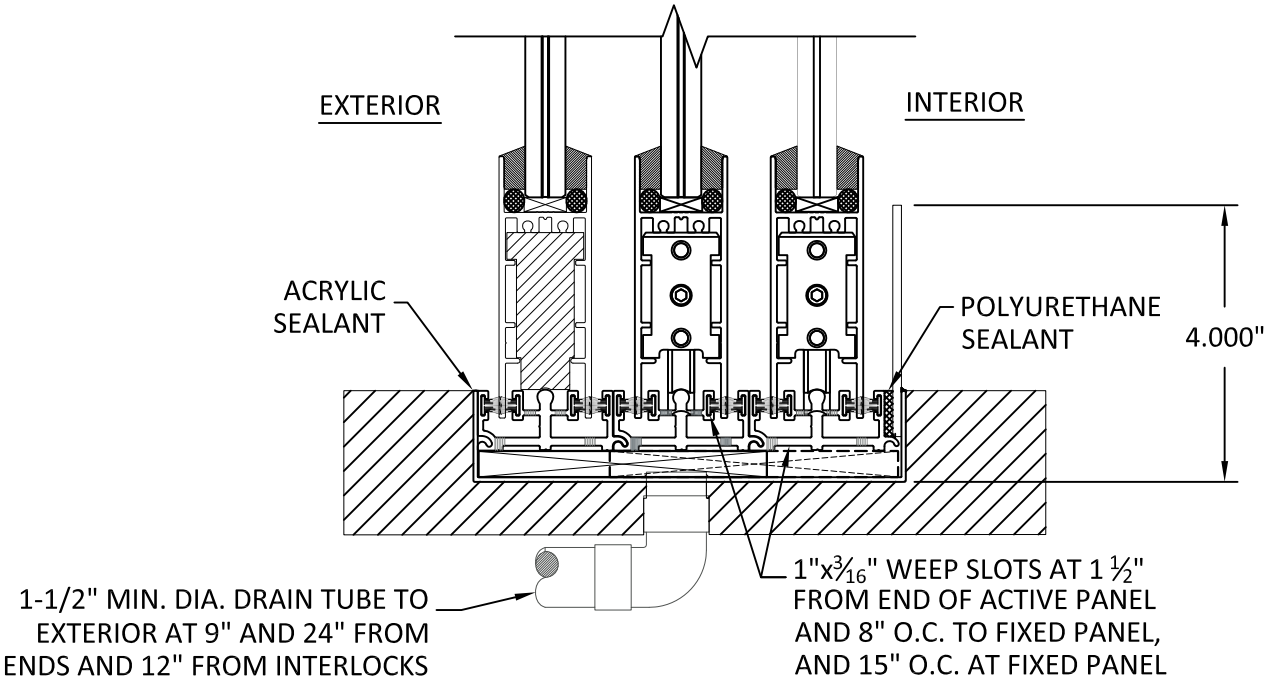
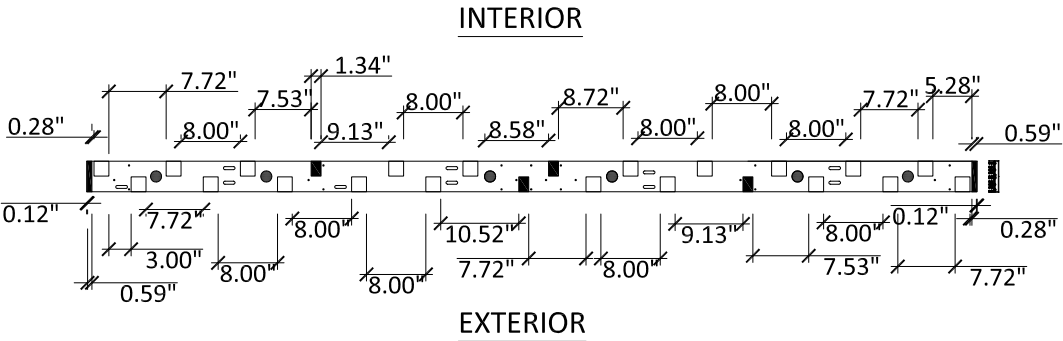
THREE TRACK DRAIN PAN
PLAN DETAIL



LEGEND

- = DRAIN TUBE
- ⋯ = INSTALLATION ANCHORS
- = 2" X 4" X 3/8" ALUMINUM SPACER (#19)
- = 2" X 2" X 3/8" ALUMINUM SPACER (#20)
- ▨ = 1 3/8" X 4" X 3/8" ALUMINUM SPACER (#24)
- = 1 3/8" X 4" X 3/8" ALUMINUM SPACER (#25)
- 〰 = WEEP SLOTS
- └ = DRAIN PAN END DAM (#20)

TWO TRACK DRAIN PAN
PLAN DETAIL



A
9 **VERTICAL SECTION**
SILL DRAINAGE DETAIL

NOTE:
RECESSED SILL DRAIN PAN AND 4" DAM HEIGHT
REQUIRED FOR INSTALLATIONS WHERE WATER
INFILTRATION RESISTANCE IS REQUIRED. TRACKS
MAY BE MOUNTED WITHOUT DRAIN PAN
WHERE DOOR LOCATION IS PROVIDED WITH AN
OVERHANG SUCH THAT THE OVERHANG RATIO
OF OVERHANG LENGTH/OVERHANG HEIGHT IS
EQUAL TO OR GREATER THAN 1.0. THREE TRACK
SHOWN, TWO TRACK SIMILAR.



AVIGLASS S.A DE C.V
MAIZ 180-2, GRANJAS ESMERALDA,
IZTAPALAPA, 09810, CIUDAD DE MÉXICO, MEXICO
PH: (01 55) 56 70 03 57 FX: (01 55) 56 70 03 37

TITLE: MINIMAL SERIES SLIDING
GLASS DOOR
DRAINAGE DETAILS

PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com

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FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED
ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC
DOCUMENTS FOR USE WITH THIS DOCUMENT.

HERMES F. NORERO
LICENSE
No. 73778
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

HERMES F. NORERO, P.E.
FLORIDA P.E. No 73778
BUILDING DROPS, INC
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:
FL31767

DATE: **02.03.20**

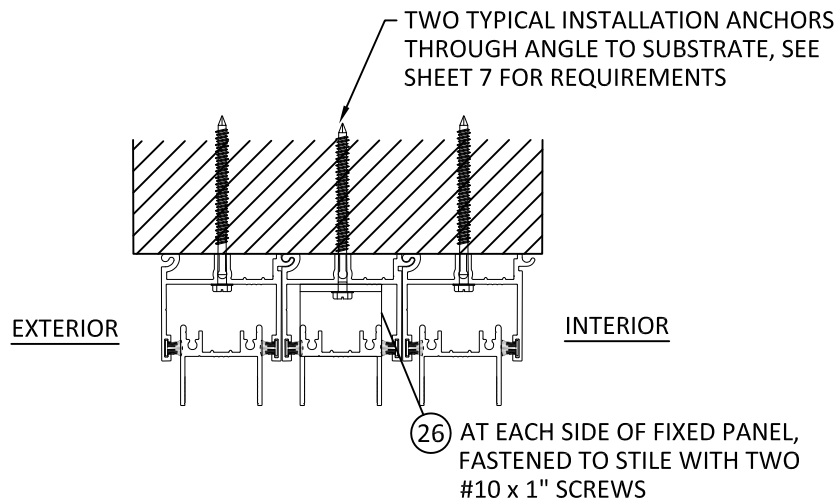
DWG. BY: **SM** CHK. BY: **HFN**

SCALE: **NTS**

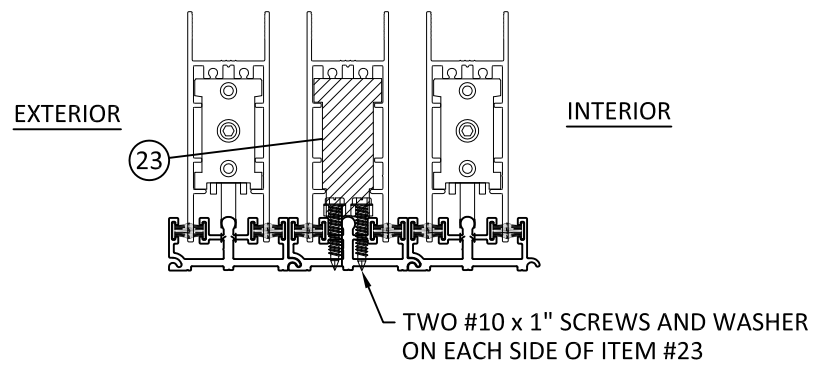
DWG. #: **AVI003**

SHEET:
9

s:\projects\aviglass.s.a.de.c.v\fb-c-19-0344-3 (minimal series sliding glass door-3 panel or less)\dwg\avi003-3.scriunto forte minimal w3.dwg 4/9/2020 9:34 PM

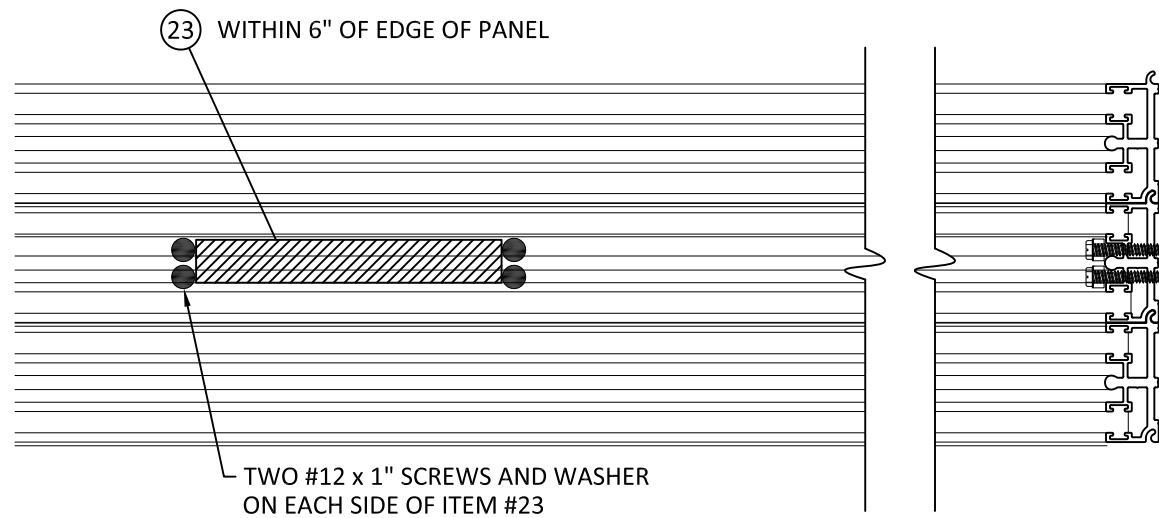


A
10 **VERTICAL SECTION**
XOX CONFIGURATION - FIXED PANEL DETAIL
HEAD



B
10 **VERTICAL SECTION**
XOX CONFIGURATION - FIXED PANEL DETAIL
SILL

- NOTES:
1. UNIQUE DETAILS OF XOX THREE TRACK CONFIGURATION SHOWN. REFER TO PREVIOUS SHEETS FOR ALL OTHER TYPICAL DETAILS.
 2. THREE TRACK SHOWN, TWO TRACK SIMILAR. TWO TRACK SHALL USE FIXED PANEL AT EXTERIOR.
 3. FOR XOX CONFIGURATIONS UNEQUAL PANEL SIZE IS QUALIFIED, SUCH THAT THE OVERALL ASSEMBLY IS LIMITED TO THE LOWEST DESIGN PRESSURE RATING DETERMINED BY MAX. PANEL SIZE ON SHEET 2



C
10 **PLAN VIEW**
XOX CONFIGURATION - FIXED PANEL DETAIL
SILL - SETTING BLOCK

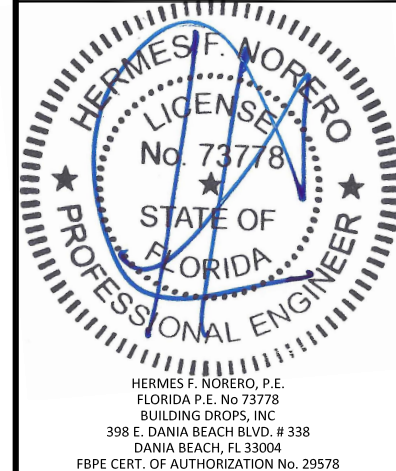


AVIGLASS S.A DE C.V
MAIZ 180-2, GRANJAS ESMERALDA,
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PH: (01 55) 56 70 03 57 FX: (01 55) 56 70 03 37

TITLE: **MINIMAL SERIES SLIDING
GLASS DOOR**
XOX CONFIGURATION DETAILS
PREPARED BY: **BUILDING DROPS, INC.**
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SCALE: **NTS**
DWG. #: **AVI003**
SHEET:
10
OF 10