

SERIES BF1099A, NON-IMPACT-RESISTANT, ALUMINUM, OUTFOLDING BIFOLD DOOR

FLORIDA PRODUCT APPROVAL #28684

- 1) THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, (FBC) INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
- 2) SHUTTERS ARE REQUIRED WHEN USED IN WIND-BORNE DEBRIS REGIONS.
- 3) FOR MASONRY APPLICATIONS IN MIAMI-DADE COUNTY, USE ONLY MIAMI-DADE COUNTY APPROVED MASONRY ANCHORS. MATERIALS USED FOR ANCHOR EVALUATIONS WERE SOUTHERN PINE, ASTM C90 CONCRETE MASONRY UNITS (CMU'S) OF NORMAL WEIGHT AND OF COMPRESSIVE STRENGTH OF MIN. 1.9 KSI AND CONCRETE WITH MIN. KSI PER ANCHOR TYPE.
- 4) MASONRY ANCHORS MAY BE USED INTO WOOD AS PER TABLE 3, SHEET 2. ALL WOOD BUCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED 1X INSTALLATIONS. 1X WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SUBSTRATE. WOOD BUCKS DEPICTED AS 2X ARE 1-1/2" THICK OR GREATER. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD.
- 5) IF SILL IS TIGHT TO SUBSTRATE, GROUT IS NOT REQUIRED. IF USED, NON-SHRINK, NON-METALLIC GROUT AT 3.4 KSI MIN. PER ASTM C1107, (DONE BY OTHERS). MAX. 1/4" SHIM SPACE FOR GROUT WHICH MUST FULLY SUPPORT THE ENTIRE LENGTH OF THE SILL THAT IS NOT TIGHT TO THE SUBSTRATE, AND TRANSFER SHEAR LOAD TO SUBSTRATE. IF SUBSTRATE IS WOOD, 30# FELT PAPER OR MASTIC IS REQUIRED BETWEEN THE GROUT AND WOOD SUBSTRATE, OR AS APPROVED BY THE AUTHORITY HAVING JURISDICTION, COMPLYING WITH THE FBC.
- 6) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. USE ANCHORS OF SUFFICIENT LENGTH TO ACHIEVE THE EMBEDMENT SHOWN ON TABLE 3, SHEET 2. NARROW JOINT SEALANT IS USED ON ALL FOUR CORNERS OF THE FRAME. EXTERIOR INSTALLATION ANCHORS SHOULD BE SEALED. OVERALL SEALING/FLASHING STRATEGY FOR WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS AND IS BEYOND THE SCOPE OF THESE INSTRUCTIONS.
- 7) MAX. 1/4" SHIMS ARE REQUIRED AT EACH ANCHOR LOCATION WHERE THE PRODUCT IS NOT FLUSH TO THE SUBSTRATE. USE SHIMS CAPABLE OF TRANSFERRING APPLIED LOADS. WOOD BUCKS, BY OTHERS, MUST BE SUFFICIENTLY ANCHORED TO RESIST LOADS IMPOSED ON THEM BY THE DOOR.
- 8) THE ANCHORAGE METHODS SHOWN HAVE BEEN DESIGNED TO RESIST THE WINDLOADS CORRESPONDING TO THE REQUIRED DESIGN PRESSURE. THE 33-1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. THE 1.6 LOAD DURATION FACTOR WAS USED FOR THE EVALUATION OF ANCHORS INTO WOOD. ANCHORS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (INCLUDING ADOPTED STANDARDS) FOR CORROSION RESISTANCE.

TABLE 1A:

Design Pressure (lbs/ft ²), See Notes A & B for Limitations						
Frame Height	Panel Width					
	22"	30"	35"	36"	42"	48"
80"	+130/-130	+130/-130	+123.3/-130	+120.9/-130	+109.6/-118.1	+101.6/-109.4
90"	+130/-130	+118.8/-127.9	+106.1/-114.2	+104/-112	+93.6/-100.8	+86/-92.6
96"	+130/-130	+109.9/-118.3	+97.9/-105.4	+95.9/-103.3	+86/-92.6	+78.8/-84.8
105"	+126.8/-130	+98.8/-106.4	+87.7/-94.5	+85.9/-92.5	+76.7/-82.6	+69.9/-75.3
120"	+109.2/-117.6	+84.6/-91.1	+74.8/-80.6	+73.2/-78.8	+65/-70	
132"	+86.8/-93.5	+65.4/-70.5	+56.9/-61.3	+55.5/-59.8		
144"	+66.7/-71.9	+50.2/-54.1	+43.6/-47			

ADDITIONAL DESIGN PRESSURE RESTRICTIONS MAY APPLY, SEE NOTES BELOW.

TABLE 1B:

Water-Limited (+) Design Pressure		
Description	Detail Sheet #	(+) Design Pressure, psf
ADA Sill	Detail I2, Sheet 8	See note A, this Sheet
Standard Sill	Detail I1, Sheet 8	+80.0
Inside Corner Configuration	Detail G, Sheet 7	See note A, this Sheet

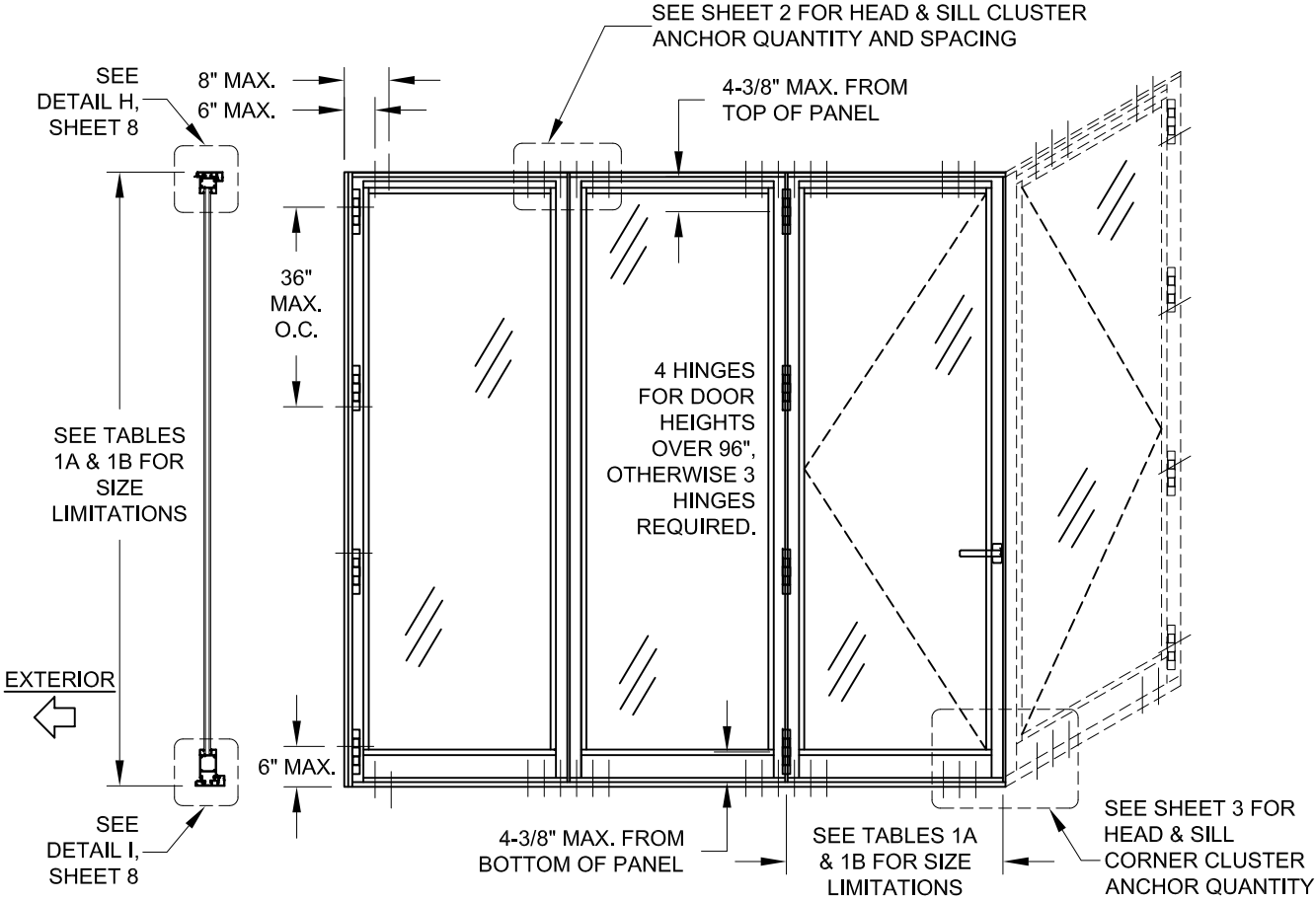
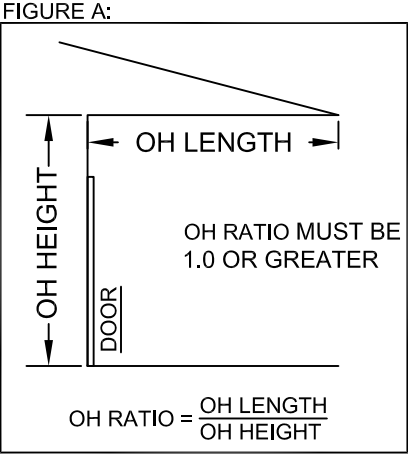
- NOTES:
- A) POSITIVE DESIGN PRESSURES IN TABLE 1A ARE TO BE USED WHERE WATER INFILTRATION RESISTANCE IS NOT REQUIRED OR OVERHANG IS PER FIGURE A. ANY SILL TYPE MAY BE USED. INSIDE AND OUTSIDE CORNERS APPLY.
- B) IF WATER INFILTRATION RESISTANCE IS REQUIRED, THE LESSER (+) DESIGN PRESSURE VALUES OF TABLE 1A AND TABLE 1B DETERMINES THE (+) WATER LIMITED DESIGN PRESSURE FOR THE CHOSEN SILL TYPE. ONLY STANDARD SILL TYPES ARE APPLICABLE. INSIDE CORNERS ARE NOT APPLICABLE
- C) OPAQUE PANEL (SEE SHEET 4) IS RESTRICTED TO A MAX. DESIGN PRESSURE OF +60.0/-70.0 PSF.

OUTSIDE HVHZ: UNLIMITED NUMBER OF PANELS PROVIDED MAXIMUM PANEL SIZE, FROM TABLES 1A-1B, IS NOT EXCEEDED.

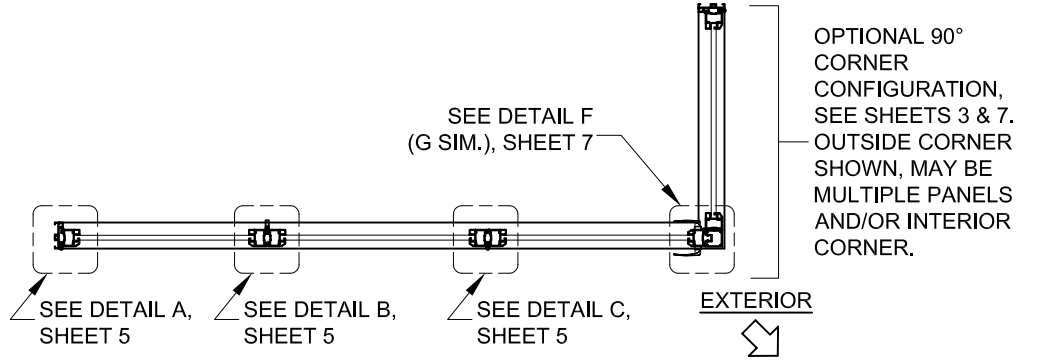
INSIDE HVHZ: UNLIMITED NUMBER OF PANELS PROVIDED MAXIMUM PANEL SIZE FROM TABLE 1A AND MAXIMUM FRAME SQUARE FOOTAGE OF 428 FT² IS NOT EXCEEDED.

CONFIGURATIONS SHOWN THROUGHOUT THIS APPROVAL ARE SAMPLE CONFIGURATIONS. ANY VERTICAL STILE CONDITION FROM DETAILS A-L MAY BE USED IN ANY CONFIGURATION.

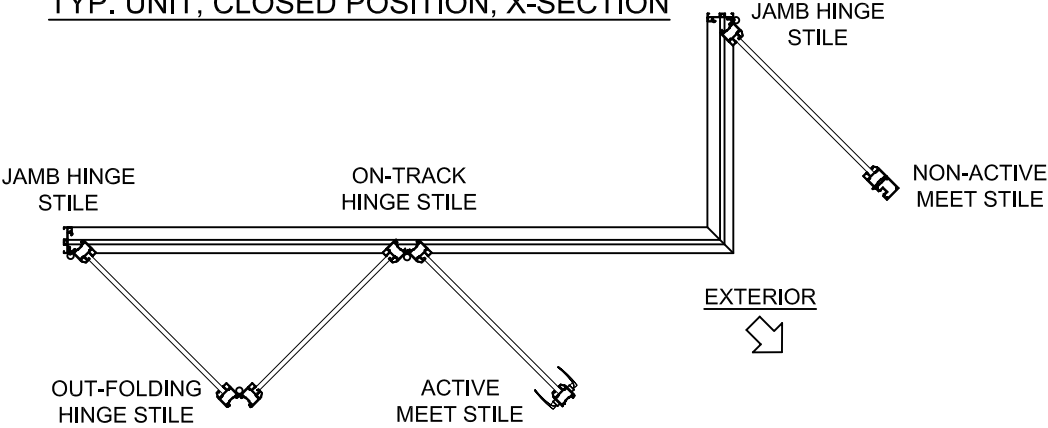
DLO WIDTH = PANEL WIDTH - 6-1/2"
DLO HEIGHT = FRAME HEIGHT - 11-1/16"



TYP. UNIT, CLOSED POSITION, EXT. ELEVATION



TYP. UNIT, CLOSED POSITION, X-SECTION

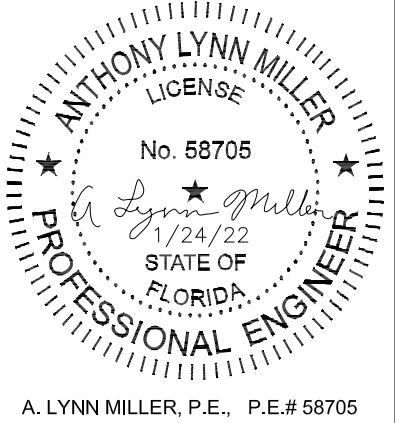


TYP. UNIT, OPEN POSITION, X-SECTION

DESIGN PRESSURE RATING
SEE TABLE 1A, THIS SHEET
IMPACT RATING
NOT RATED FOR IMPACT RESISTANCE

ADDED LOCK OPTION
PART # 42 - JR - 1/24/22

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ALUMINUM BIFOLD DOOR (NON-IMPACT)			Date	06/16/19	
GENERAL NOTES			Drawn By	JENS ROSOWSKI	
Series	Desc.	Sheet	1 OF 9		Rev.
BF1099A					D
			1099FPA-1D-1		



A. LYNN MILLER, P.E., P.E.# 58705

TABLE 2:

Min. Quantity of Anchors at Jamb & Head/Sill Cluster								
Frame Height	Anchor Location on Frame	Anchor Group	Panel Width					
			22"	30"	35"	36"	42"	48"
84"	Head & Sill Cluster	A	3	3	4	4	4	5
	Jamb		3	3	3	3	3	3
	Head & Sill Cluster	B	3	3	3	3	3	4
	Jamb		3	3	3	3	3	3
90"	Head & Sill Cluster	A	3	4	4	4	5	6
	Jamb		3	3	3	3	3	3
	Head & Sill Cluster	B	3	3	3	3	4	4
	Jamb		4	4	4	4	4	4
96"	Head & Sill Cluster	A	3	4	4	5	5	6
	Jamb		4	4	4	4	4	4
	Head & Sill Cluster	B	3	3	3	3	4	4
	Jamb		4	4	4	4	4	4
105"	Head & Sill Cluster	A	3	4	5	5	6	6
	Jamb		3	3	3	3	3	4
	Head & Sill Cluster	B	3	3	4	4	4	5
	Jamb		4	4	4	4	4	4
120"	Head & Sill Cluster	A	4	5	5	6	6	
	Jamb		4	4	4	4	4	
	Head & Sill Cluster	B	3	3	4	4	5	
	Jamb		4	4	4	4	4	
132"	Head & Sill Cluster	A	4	5	5	5		
	Jamb		5	5	5	5		
	Head & Sill Cluster	B	3	4	4	4		
	Jamb		5	5	5	5		
144"	Head & Sill Cluster	A	4	4	4			
	Jamb		5	5	5			
	Head & Sill Cluster	B	3	3	3			
	Jamb		5	5	5			

DLO WIDTH = PANEL WIDTH - 6-1/2"
DLO HEIGHT = FRAME HEIGHT - 11-1/16"

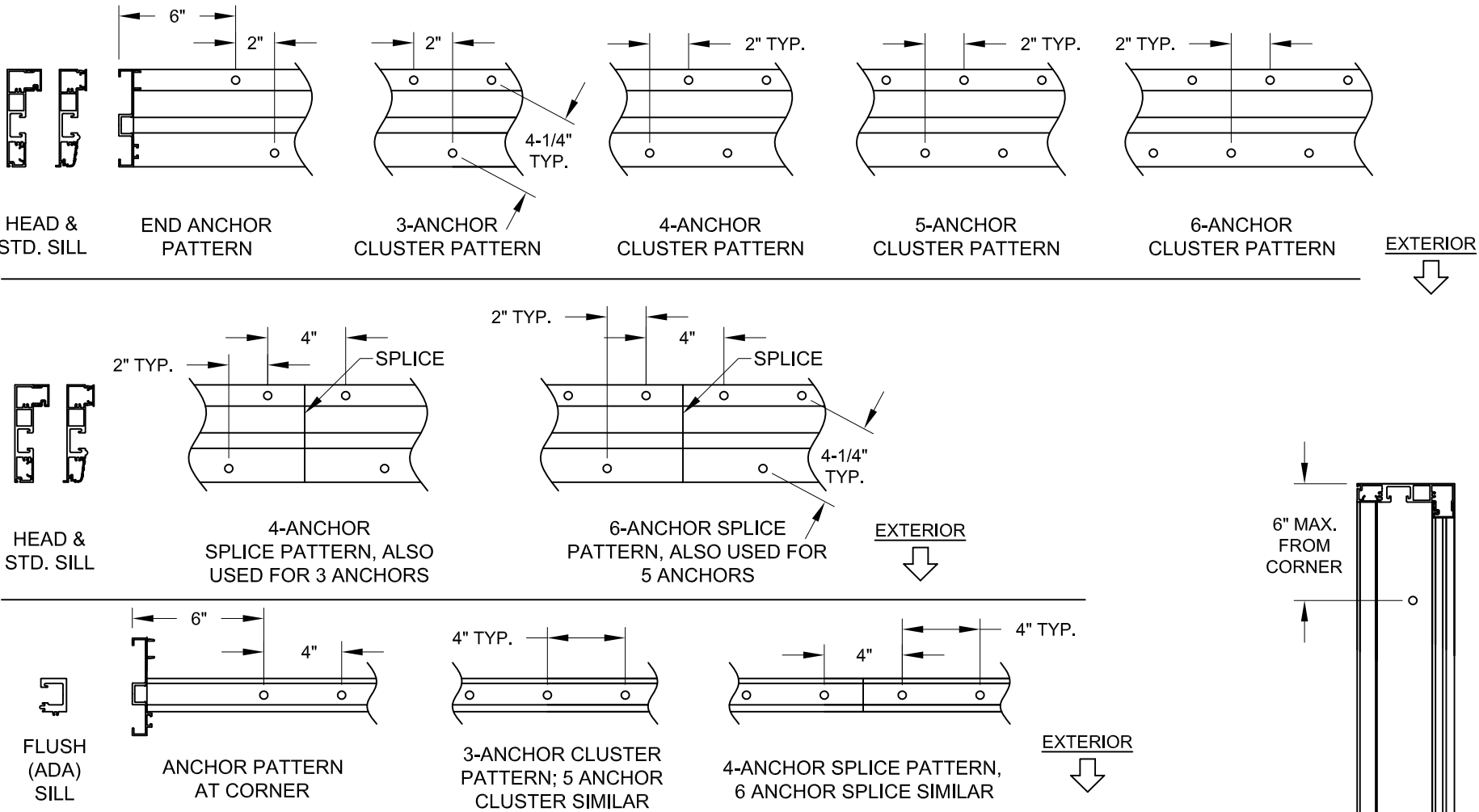
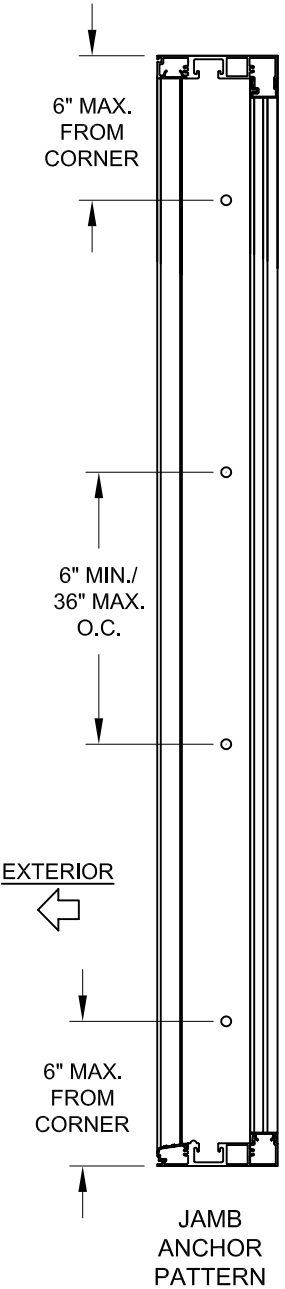


TABLE 3:

Anchor Group	Anchor Type	Frame Member	Substrate	Min. Edge Distance	Min. Embedment or Metal Thickness
A	#12 Steel SMS (Gr. 5) or 18-8 SS SMS	All	Southern Pine (SG = 0.55)	9/16"	1-3/8"
			6063-T5 Aluminum	3/8"	0.071"
			A36 Steel	3/8"	.050"
			Steel Stud, Gr. 33	3/8"	0.045" (18 Ga)
	1/4" Elco UltraCon, 1/4" 410 SS Elco CreteFlex or 1/4" DeWalt Ultracon+	All	Southern Pine (SG = 0.55)	1"	1-3/8"
		All	Concrete (min. 2.85 ksi)	1"	1-3/8"
	1/4" Elco UltraCon	Jamb	Hollow or Grout-filled CMU (ASTM C90)	1"	1-1/4"
		All	Concrete (min. 3.0 ksi)	1-1/4"	1-3/8"
	1/4" DeWalt Ultracon+	Jamb	Hollow or Grout-filled CMU (ASTM C90)	1"	1-1/4"
		All	Concrete (min. 3.35 ksi)	1"	1-3/4"
	1/4" 410 SS Elco CreteFlex	All	Concrete (min. 2.85 ksi)	1-3/4"	1-3/8"
			Hollow or Grout-filled CMU (ASTM C90)	2-1/2"	1-1/4"
B	1/4" Elco UltraCon	All	Concrete (min. 2.85 ksi)	1-3/4"	1-3/8"
		Jamb	Hollow or Grout-filled CMU (ASTM C90)	2-1/2"	1-1/4"
	1/4" DeWalt Ultracon+	All	Concrete (min. 3.0 ksi)	2-1/2"	1-3/8"
		Jamb	Hollow or Grout-filled CMU (ASTM C90)	2-1/2"	1-1/4"
	1/4" 410 SS Elco CreteFlex	All	Concrete (min. 3.35 ksi)	1-3/4"	1-3/4"
		Jamb	Hollow or Grout-filled CMU (ASTM C90)	2-1/2"	1-1/4"

1) ALL ANCHOR HEAD TYPES ARE APPLICABLE.
2) MIN. OF 3 THREADS BEYOND METAL SUBSTRATE.



NOTES:

1) ANCHOR CLUSTER PATTERN IN THE HEAD AND SILL IS TO BE CENTERED ON THE MEETING POINT OF THE 2 PANELS.

Revision:

PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600

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ALUMINUM BIFOLD DOOR (NON-IMPACT)

06/16/19
Date

By JENS ROSOWSKI

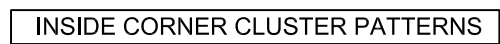
1099FPA-1D-1
No. DWG

2 OF 9
Sheet

Rev. D

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STATE OF FLORIDA
PROFESSIONAL ENGINEER

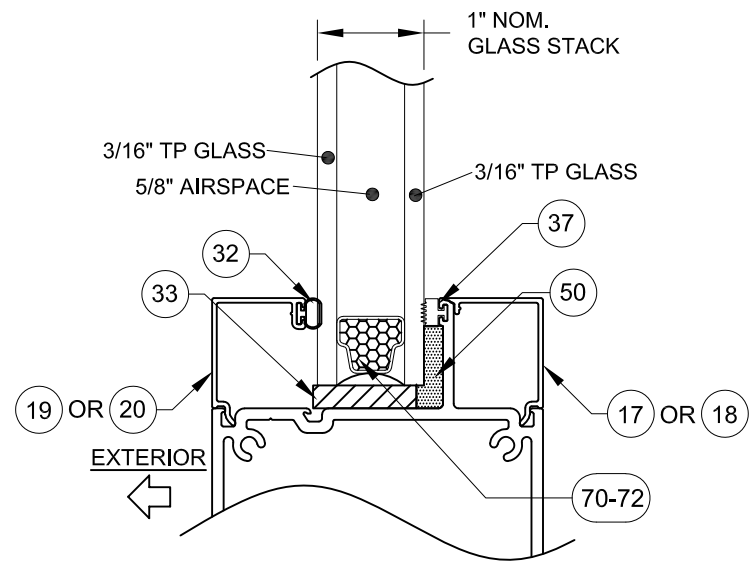
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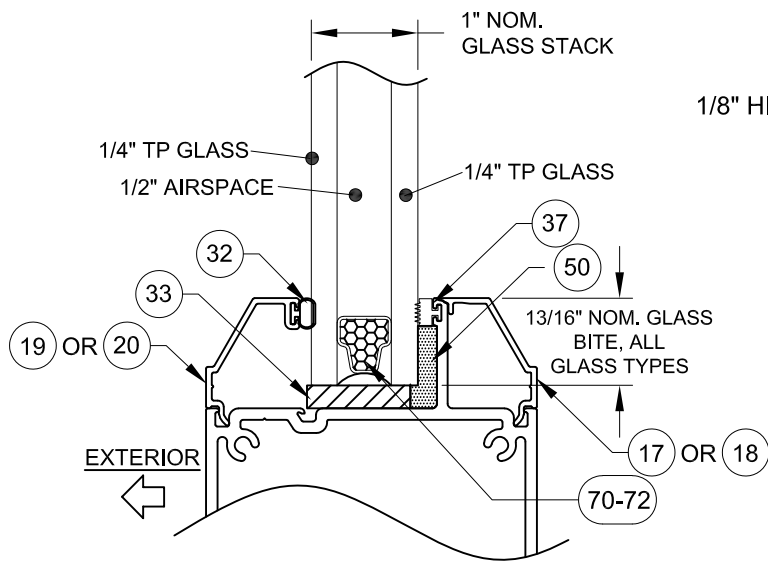
DLO WIDTH = PANEL WIDTH - 6-1/2"
DLO HEIGHT = FRAME HEIGHT - 11-1/16"

Windo[®]or INCORPORATED		PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	
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ALUMINUM BIFOLD DOOR (NON-IMPACT)		06/16/19	
CORNER ANCHORAGE		JENS ROSOWSKI	
BF1099A		1099FPA-1D-1	
3 OF 9		D	

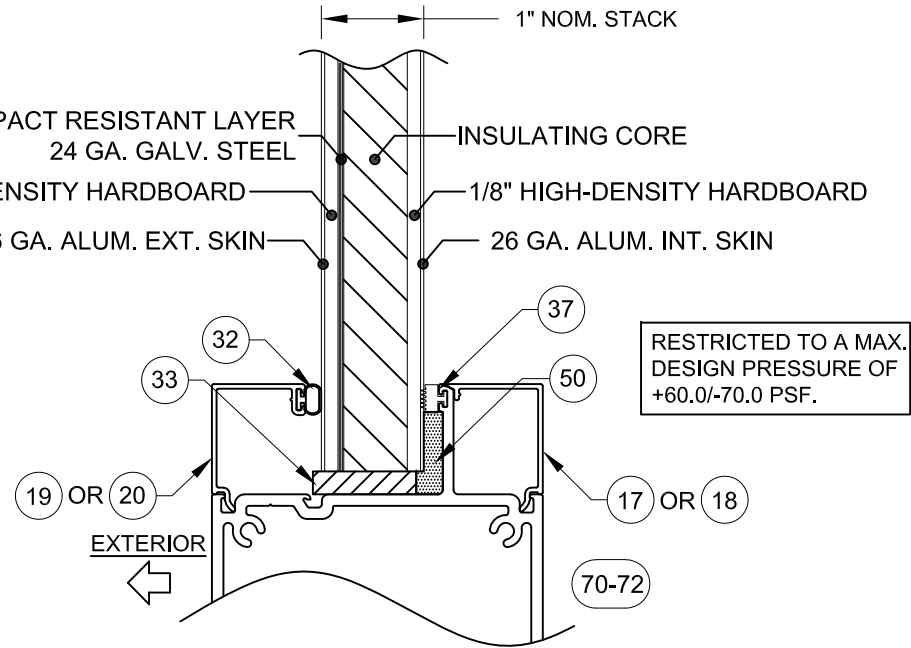
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GLASS TYPE 1



GLASS TYPE 2



OPAQUE PANEL

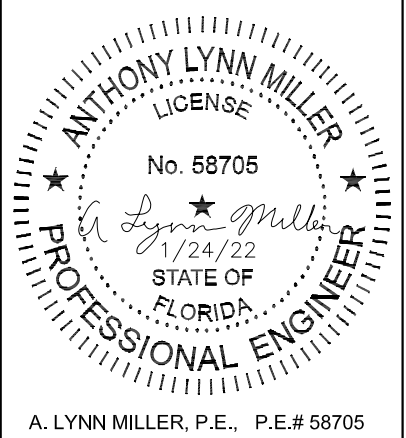
MAPES ARCHITECTURAL PANEL
MAPESHIELD ©

TABLE 5:

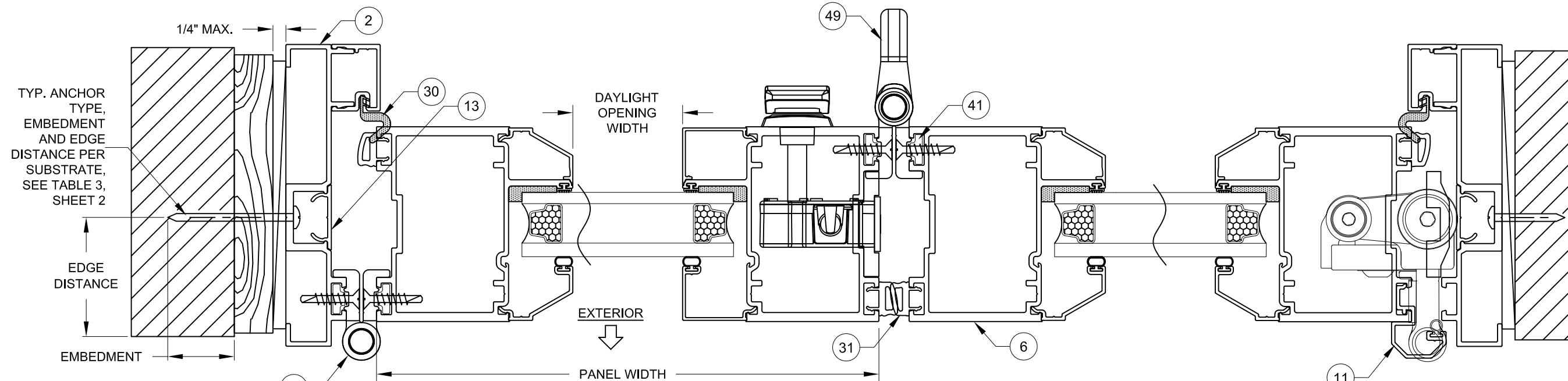
Glass Type	Description (Listed from Exterior to Interior)
1	3/16" Tempered, 5/8" Airspace, 3/16" Tempered
2	1/4" Tempered, 1/2" Airspace, 1/4" Tempered
OP	Mapes Architectural Opaque Panel, MapeShield

Revision:

WINDOOR® INCORPORATED		WINDOOR INCORPORATED 104 TRIPLE DIAMOND BLVD N VENICE, FL 34275 (833) 554-5432		ALUMINUM BIFOLD DOOR (NON-IMPACT)		Date	06/16/19	
PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600				REGISTRATION #29296		COPYRIGHT © 2022 WINDOOR, INC., LIMITED LICENSE TO MAKE COPIES FOR PERMITTING.		
Series	BF1099A	Sheet	4 OF 9	DWG No.	1099FPA-1D-1	By	JENS ROSOWSKI	
Desc.	GLAZING		Drawn					
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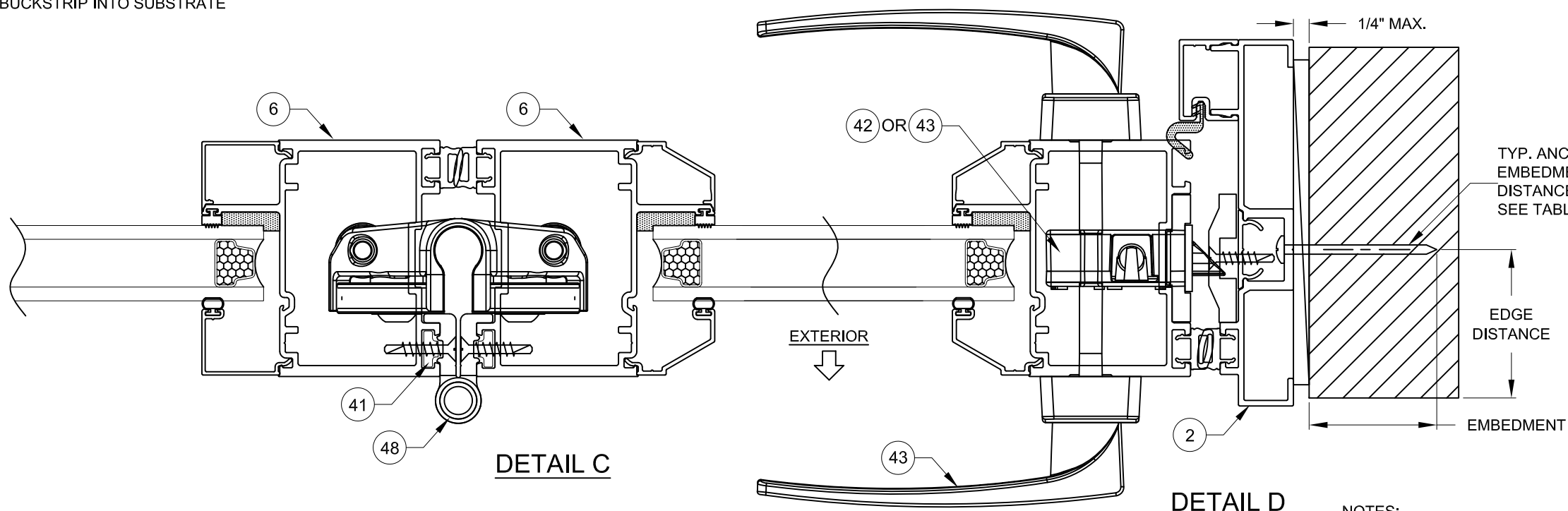


INSTALLATION OPTION 1
ANCHORED THROUGH FRAME AND 1X
BUCKSTRIP INTO SUBSTRATE

DETAIL A

DETAIL B

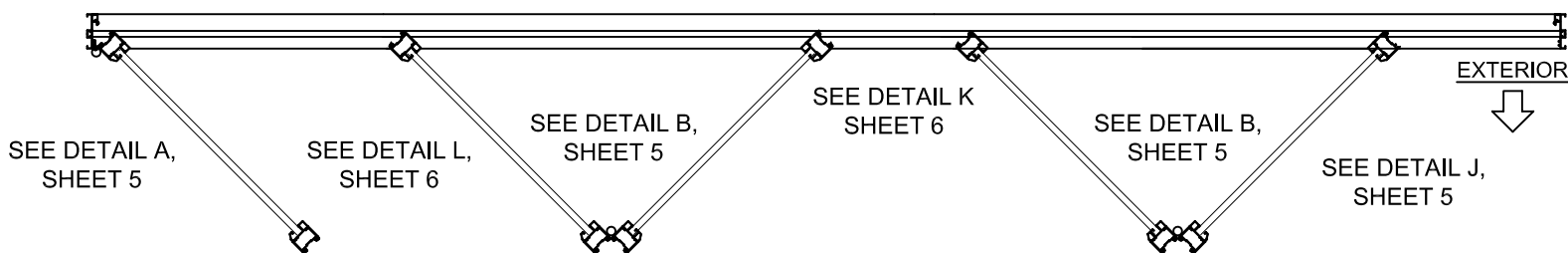
DETAIL J



DETAIL C

DETAIL D

INSTALLATION OPTION 2
ANCHORED THROUGH FRAME
DIRECTLY INTO SUBSTRATE

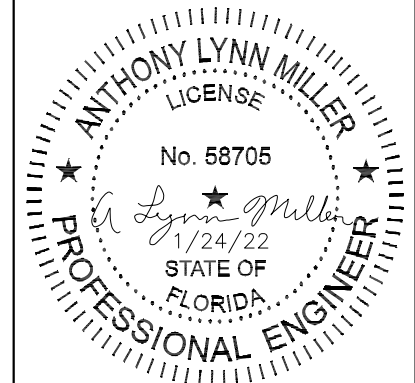


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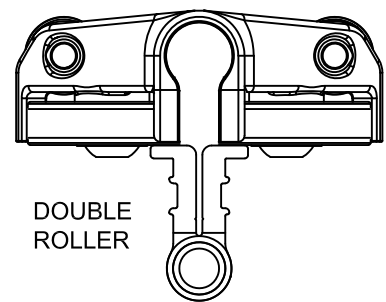
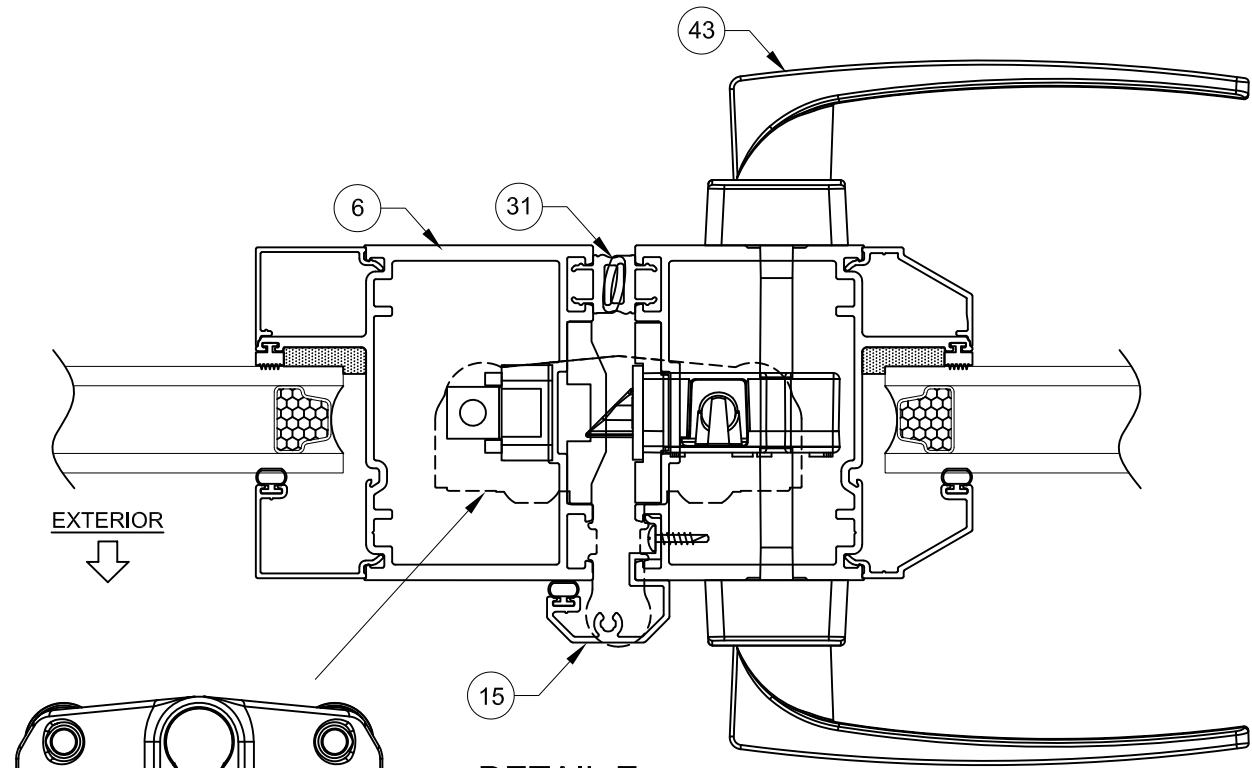
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Revision:

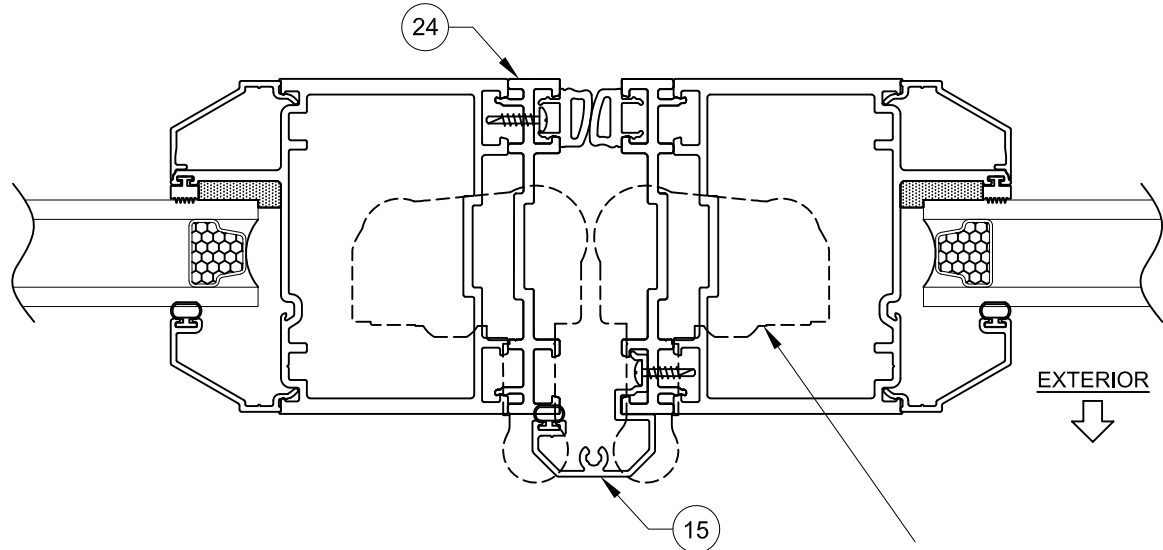
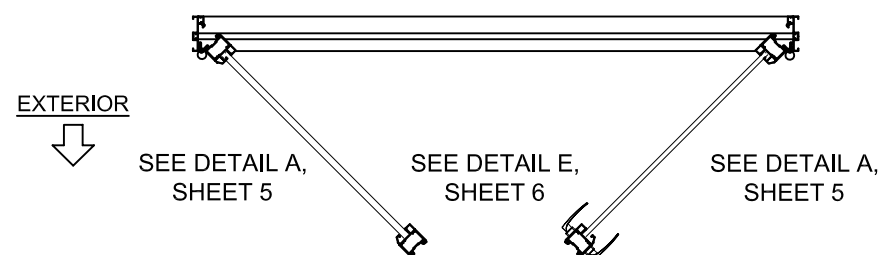
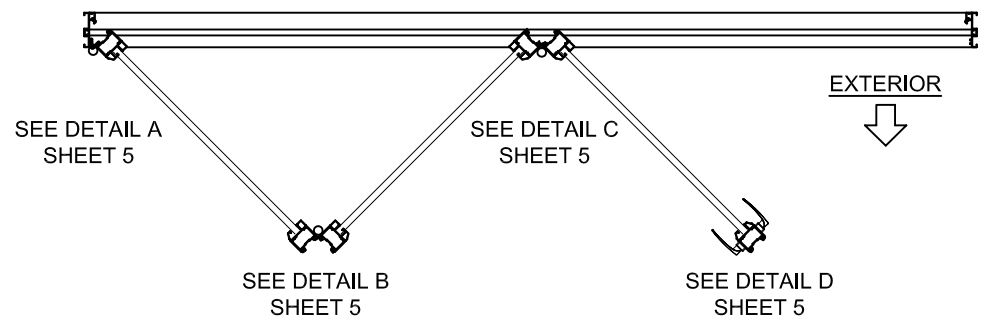
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ALUMINUM BIFOLD DOOR (NON-IMPACT)		06/16/19		Date	
HORIZ. SECTION		JENS ROSOWSKI		By	
BF-1099A		5 OF 9		DWG No.	
Sheet		1099FPA-1D-1		Rev.	
Series		Desc.		Title	



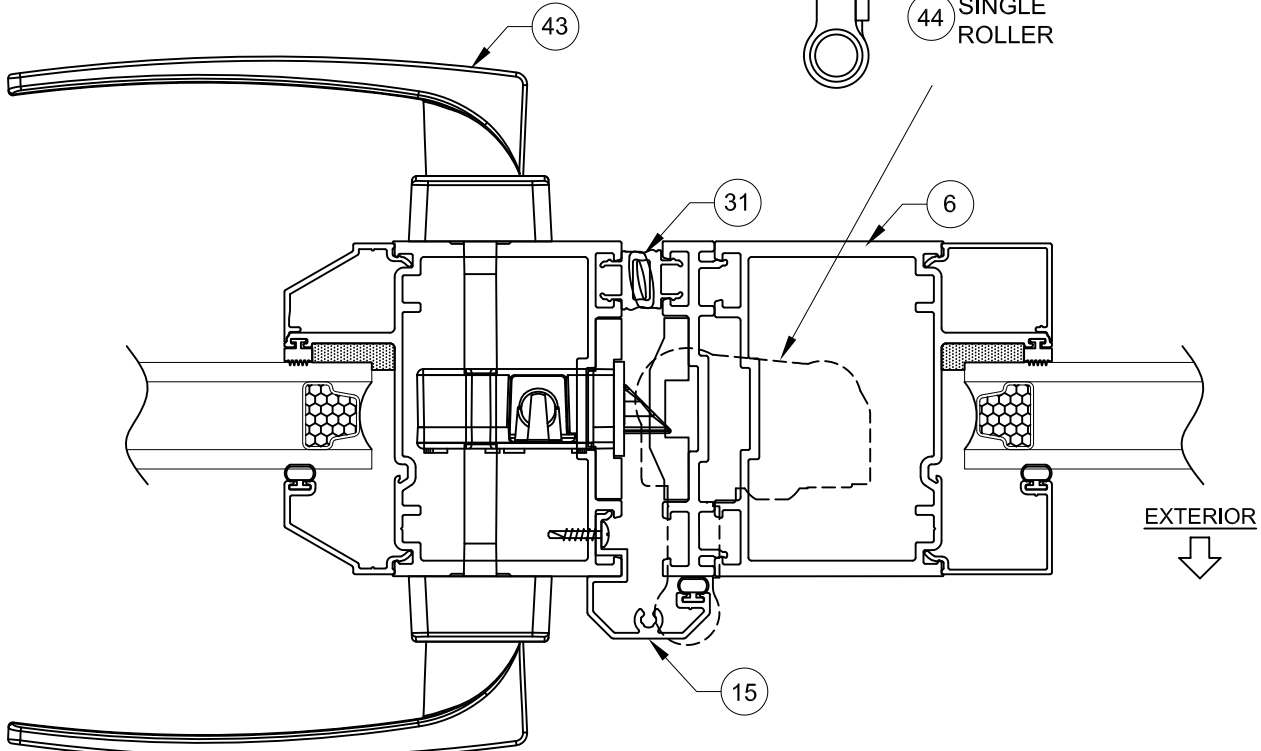
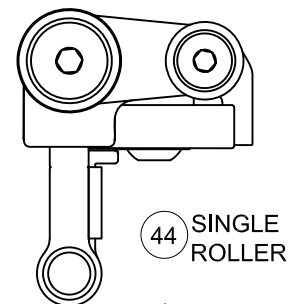
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DETAIL E



DETAIL K



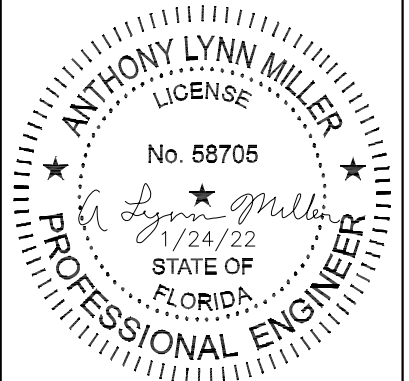
DETAIL L

NOTES:

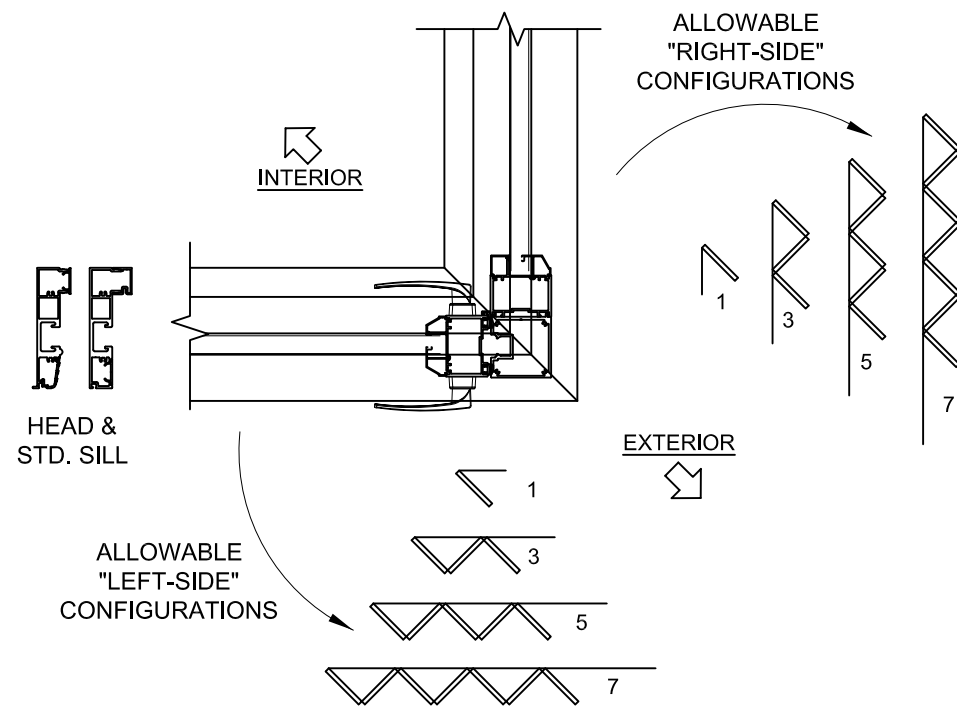
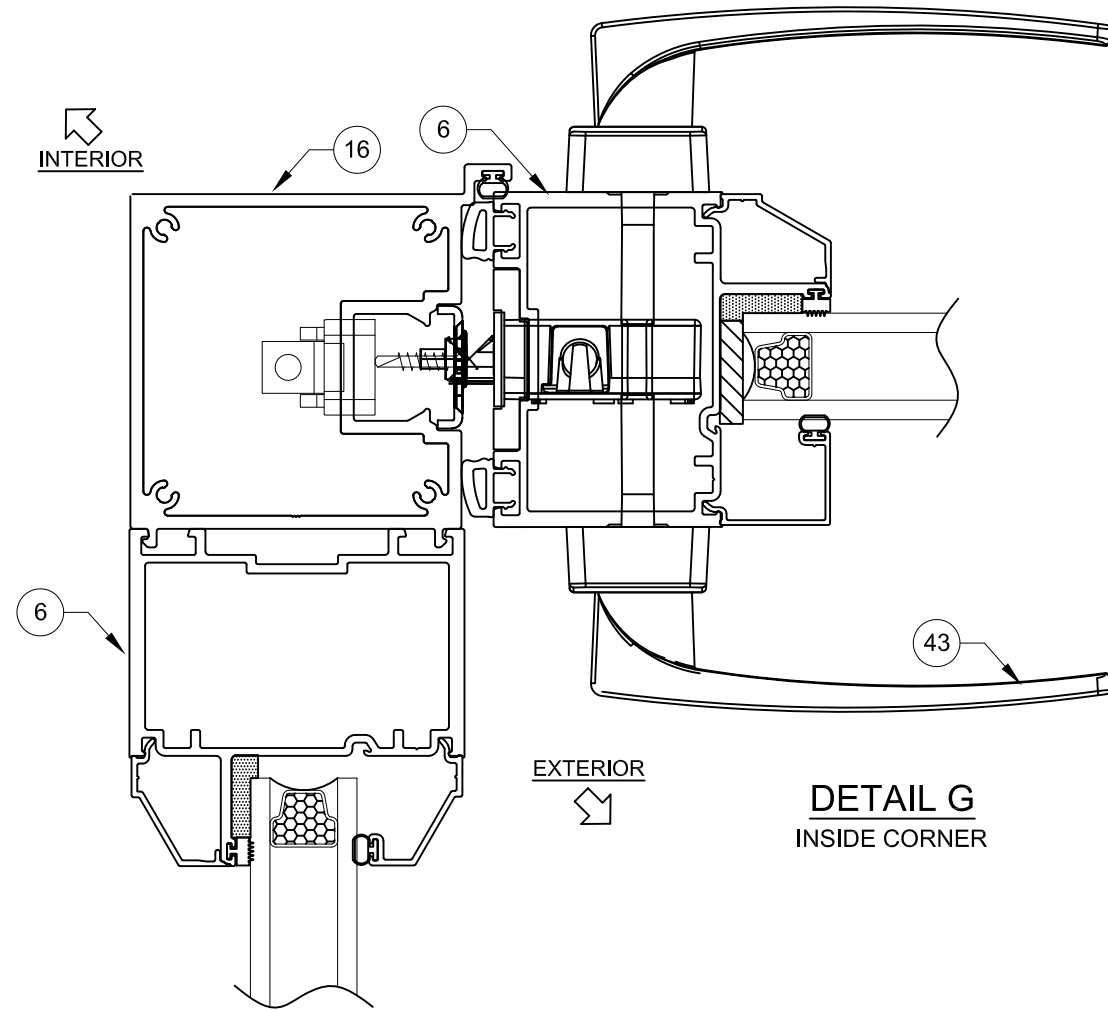
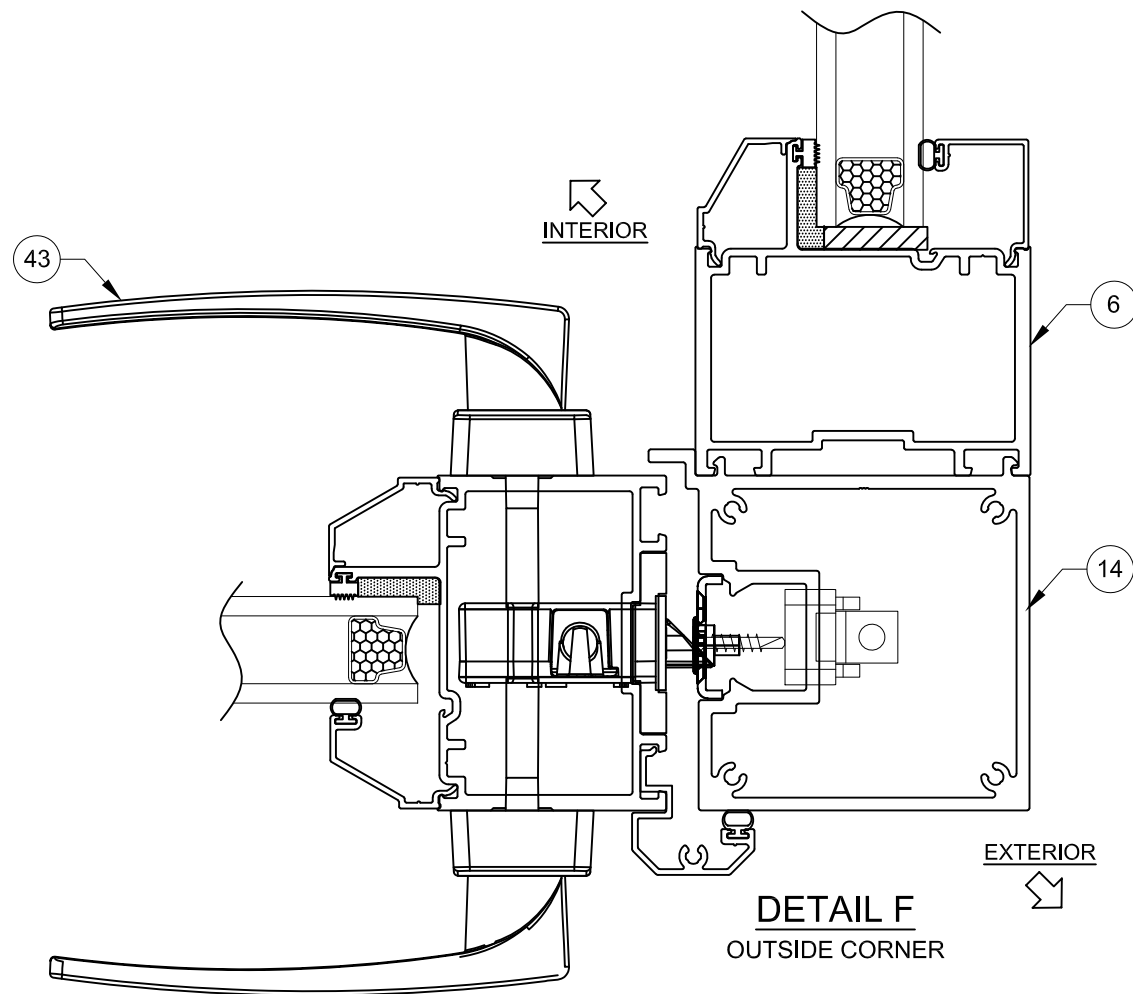
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				CENTER MEET DETAIL		Drawn By	JENS ROSOWSKI
						DWG No.	1099FPA-1D-1
Series		BF1099A	Sheet	6 OF 9	Rev.		D
Desc.		CENTER MEET DETAIL					
Prepared By		A. LYNN MILLER					
Address		1070 TECHNOLOGY DRIVE					
City		N. VENICE, FL 34275					
Phone		(941) 480-1600					
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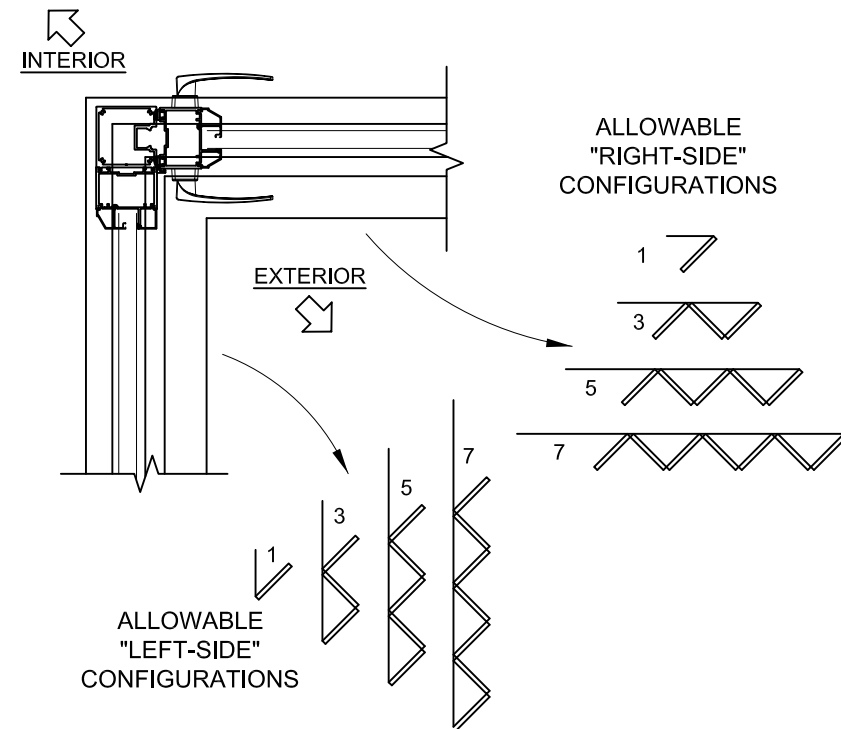


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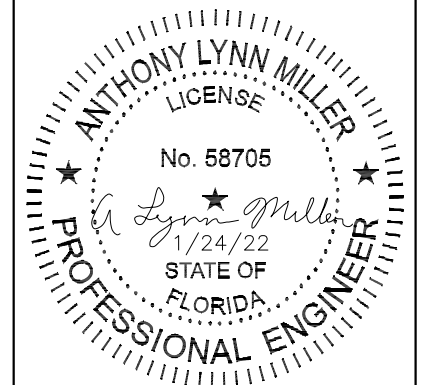
OUTSIDE HVHZ:
UNLIMITED NUMBER OF
PANELS PROVIDED MAXIMUM
PANEL SIZE IS NOT EXCEEDED.

INSIDE HVHZ:
UNLIMITED NUMBER OF
PANELS PROVIDED MAXIMUM
FRAME SQUARE FOOTAGE OF
428 FT² IS NOT EXCEEDED.



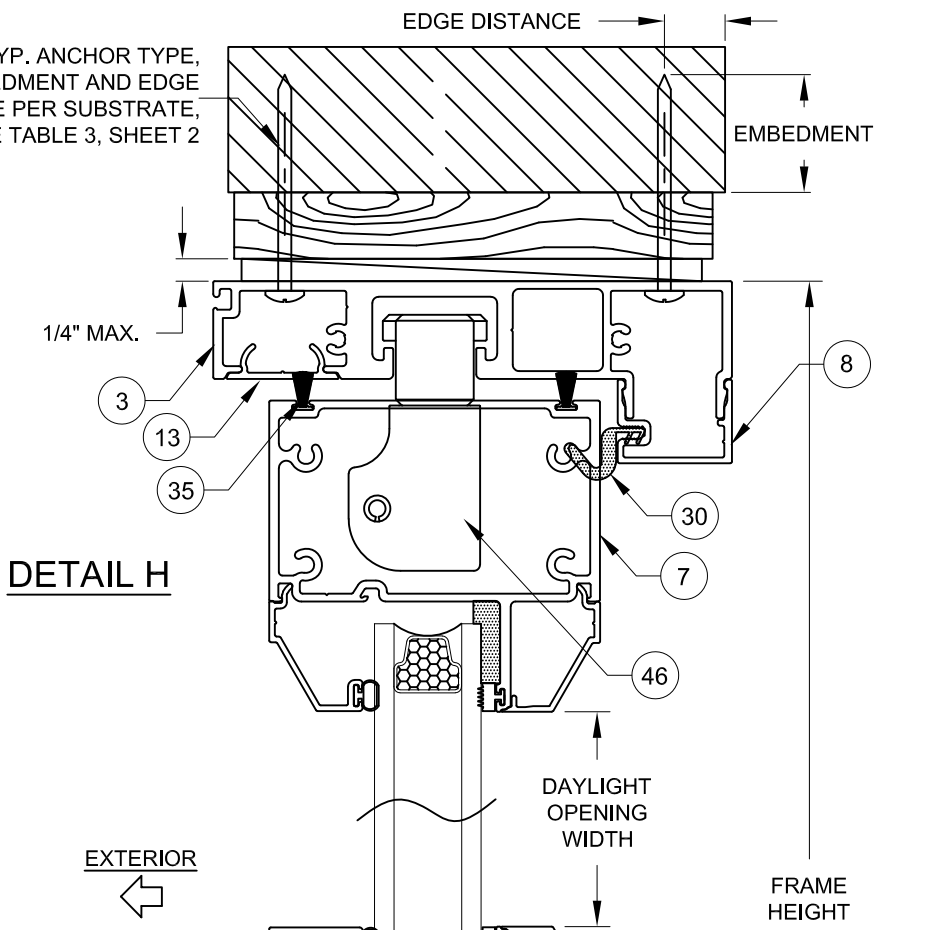
Revision:

PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600		REGISTRATION #29296 COPYRIGHT © 2022 WINDOOR, INC., LIMITED LICENSE TO MAKE COPIES FOR PERMITTING.		06/16/19	
WINDOOR INCORPORATED 104 TRIPLE DIAMOND BLVD N. VENICE, FL 34275 (833) 554-5432		ALUMINUM BIFOLD DOOR (NON-IMPACT)		JENS ROSOWSKI	
CORNER DOOR DETAILS		7 OF 9		1099FPA-1D-1	
BF1099A		DWC		D	
Series		Desc.		Rev.	



A. LYNN MILLER, P.E., P.E.# 58705

**INSTALLATION
OPTION 1**
ANCHORED THROUGH
FRAME AND 1X
BUCKSTRIP INTO
SUBSTRATE



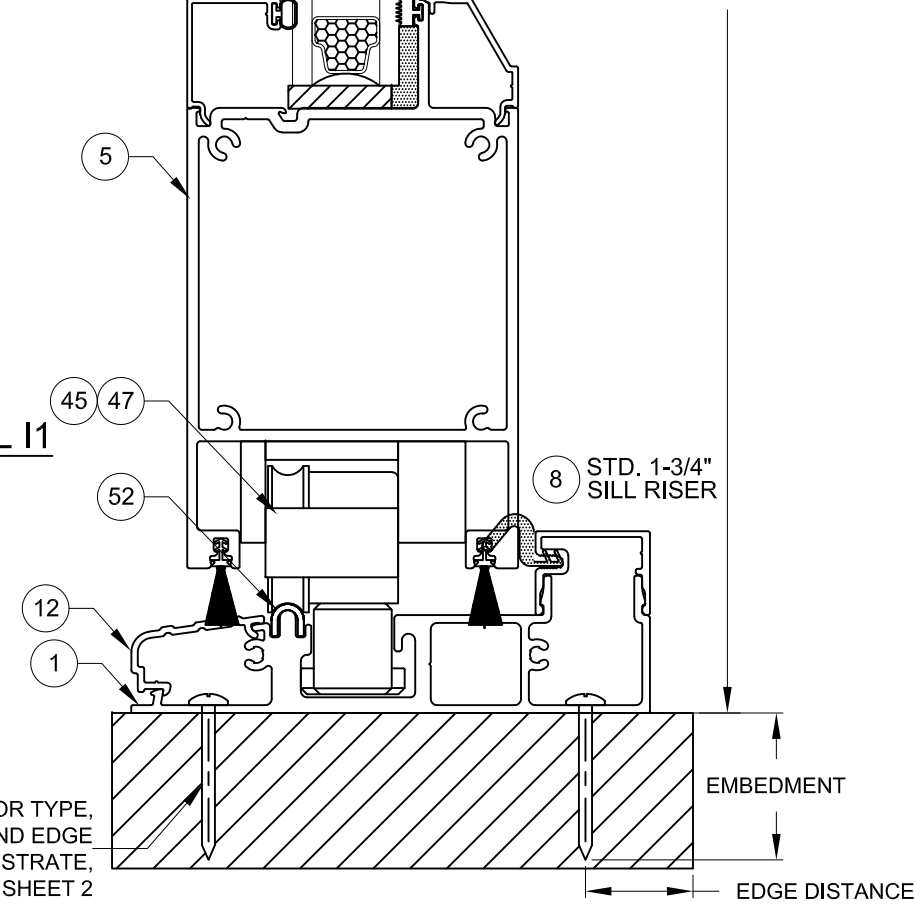
DETAIL H

EXTERIOR
←

DETAIL I1

**INSTALLATION
OPTION 2**
ANCHORED THROUGH
FRAME DIRECTLY INTO
SUBSTRATE

TYP. ANCHOR TYPE,
EMBEDMENT AND EDGE
DISTANCE PER SUBSTRATE,
SEE TABLE 3, SHEET 2



OUT-FOLD WITH STANDARD SILL

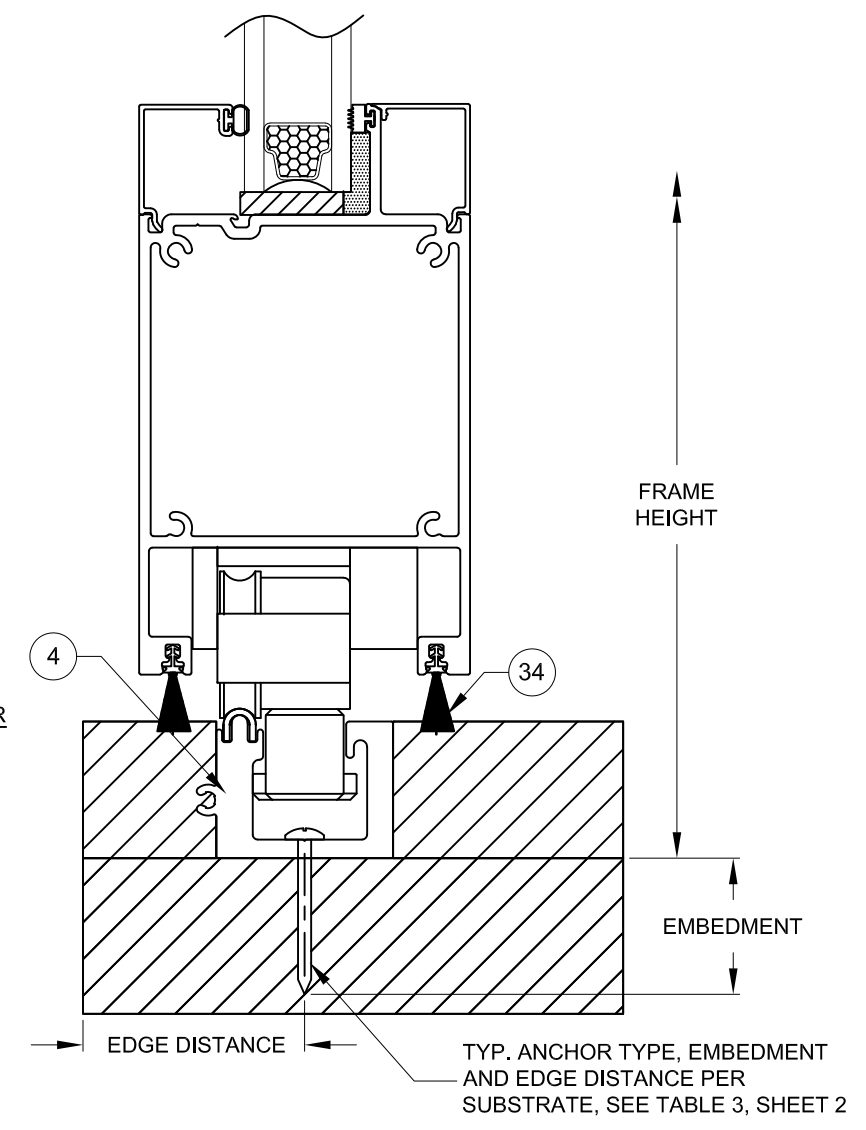
NOTES:

- 1) USE ONLY SUBSTRATE APPROPRIATE ANCHORS, FOLLOW EMBEDMENT, EDGE DISTANCE AND SUBSTRATE REQUIREMENTS PER TABLE 3, SHEET 2. ANY INSTALLATION OPTION SHOWN MAY BE USED. ALL ANCHOR HEAD TYPES ARE ALLOWED.
- 2) ALL WOOD BUCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED 1X INSTALLATIONS. 1X WOOD BUCKS ARE OPTIONAL. UNIT MAY BE INSTALLED DIRECTLY TO SUBSTRATE. WOOD BUCKS DEPICTED AS 2X ARE 1-1/2" THICK OR GREATER. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD.

DETAIL I2

EXTERIOR
←

**INSTALLATION
OPTION 3**
ANCHORED THROUGH
FRAME DIRECTLY INTO
FITTED SUBSTRATE



OUT-FOLD WITH ADA, FLUSH SILL
(NOT RATED FOR WATER INFILTRATION)

Revision:

PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600

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WINDOOR® INCORPORATED WINDOOR INCORPORATED 104 TRIPLE DIAMOND BLVD N. VENICE, FL 34275 (833) 554-5432	ALUMINUM BIFOLD DOOR (NON-IMPACT)		Date	06/16/19
	VERTICAL DETAILS	JENS ROSOWSKI	By	
BF1099A	8 OF 9	DWG	No.	1099FPA-1D-1
		Sheet	Rev.	D

ANTHONY LYNN MILLER
LICENSE
No. 58705
1/24/22
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

A. LYNN MILLER, P.E., P.E.# 58705

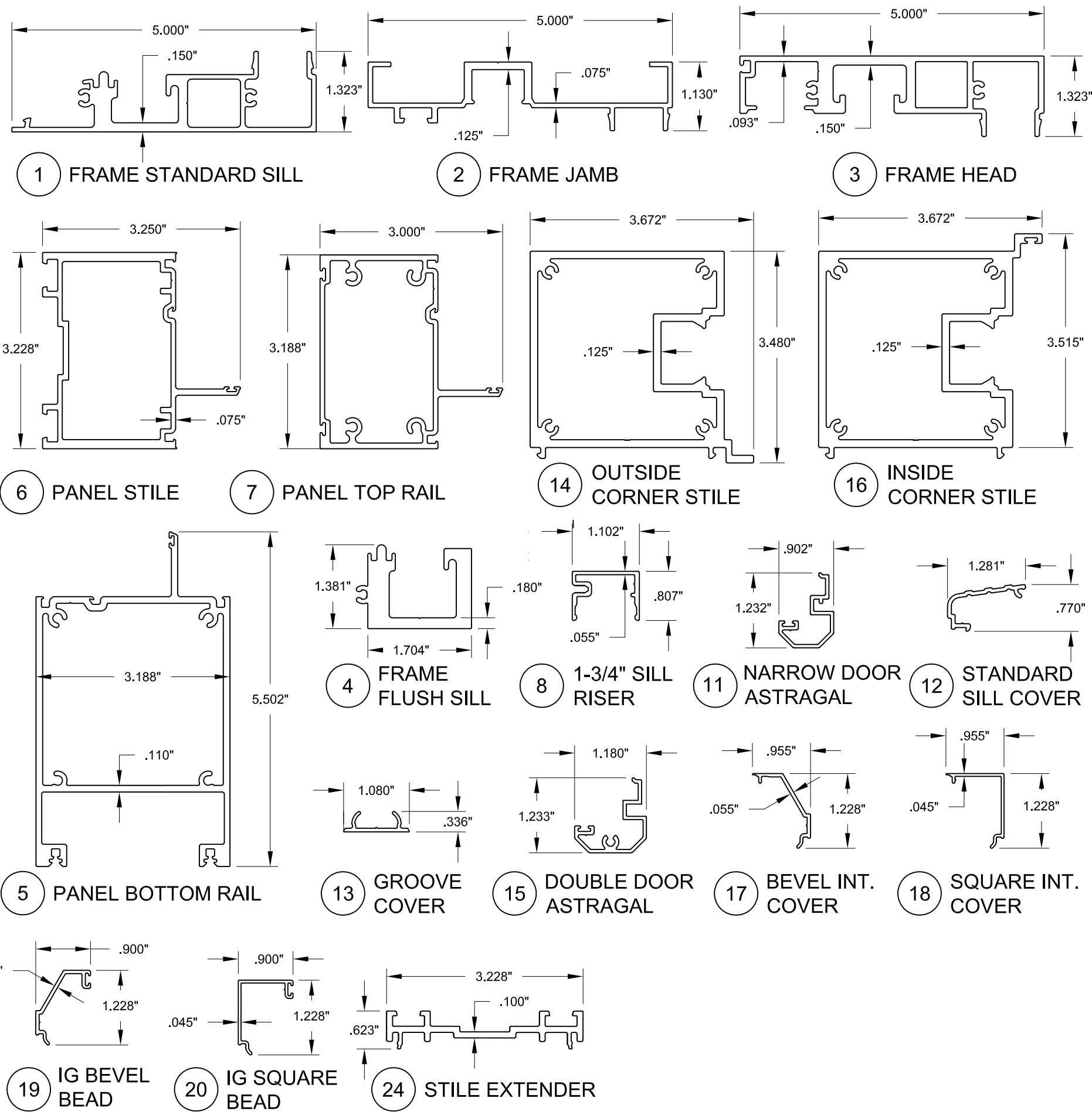


TABLE 6:			
ITEM	PGT PART#	DESCRIPTION	MATERIALS
1	21001	Frame Sill	6063-T6
2	21004	Frame Jamb	6063-T6
3	21000	Frame Head	6063-T6
4	21002	Frame Flush Sill (ADA)	6063-T6
5	21009	Panel Bottom Rail	6063-T6
6	21010	Panel Stile	6063-T6
7	21008	Panel Top Rail	6063-T6
8	21005	1-3/4" Sill Riser/Frame Adapter	6063-T6
11	21093	Narrow Door Astragal	6063-T6
12	21007	Standard Sill Cover	6063-T6
13	21006	Groove Cover	6063-T6
14	21086	Outside Corner Stile	6063-T6
15	21011	Double Door Astragal	6063-T6
16	23025	Inside Corner Stile	6063-T6
17	21016	Bevel Interior Bead	6063-T6
18	21013	Square Interior Bead	6063-T6
19	21015	IG Bevel Bead	6063-T6
20	21012	IG Square Bead	6063-T6
24	21078	Stile Extender	6063-T6
30	21047	C-Fold gasket	Vinyl
31	21044	Panel Meeting Gasket, #3008	Vinyl
32	61226D	Beading Bulb Weatherstrip	Vinyl
33		Setting Block, 0.25"	EPDM
34	21042	.625" Fin Weatherstrip @ Sill	
35	21043	.187" x .400" Fin Wstp. @ Header	
37	21045	Large Glz. Leg Weatherstrip	Vinyl
41	varies	Hinge Fastener Kit	SS
42	varies	Active Handle Kit, Shoot Bolt Type	
43	varies	Active Handle Kit, Hook Latch Type	
44	21081/2	Single Guide Hinge Assembly, top, L&R	SS
45	21079/80	Single Roller Hinge Assembly, bottom, L&R	SS
46	21038	Double Guide Hinge Assembly, top	SS
47	21037	Double Roller Hinge Assembly, bottom	SS
48	varies	Hinge Assembly Kit, w/o Handle	SS
49	varies	Hinge Assembly Kit, w Handle	SS
50	varies	Backbedding (Dow 791, 983, Sika 552 or RGS 7700)	
51	21041	Assembly Screw, #10 x 1-1/4" PH SDS	SS
52	21021	Stainless Steel Sill Cap	SS
70	varies	Kommerling Kodispace 4SG TPS	varies
71	varies	Quanex Super Spacer	varies
72	varies	Metal IG Spacer	varies

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06/16/19
Date

JENS ROSOWSKI
By

1099FPA-1D-1
Rev.

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WINDOOR®
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WINDOOR INCORPORATED
104 TRIPLE DIAMOND BLVD
N. VENICE, FL 34275
(833) 554-5432

ALUMINUM BIFOLD DOOR (NON-IMPACT)

EXTRUSIONS, BOM

9 OF 9
Sheet

BF1099A
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DWG

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No.

