Engineering Evaluation Report # 1199-08072025

Prepared by:
A. Lynn Miller, P.E.
1070 Technology Dr.
N. Venice, FL 34275
(941) 480-1600
Registration: #29296

Manufacturer:
WinDoor, LLC
104 Triple Diamond Blvd
N Venice, FL 34275

Product Description:
BF1199A Series Impact-resistant Aluminum Bifold Door, (LM & SM); FL Approval #16755

Compliance:
The above-mentioned product has been evaluated for compliance with the requirements of the Florida Department of Business and Professional Regulation for Statewide Acceptance per Rule 61 G20-3.005 method 1(d). The product listed herein complies with the requirements of the current Florida Building Code.

ASTM E1300 calculations for glass types containing ATG were performed using base 3/16" and 1/4" tempered glass only.

This product has been evaluated and is in compliance with the current Florida Building Code, including the "High Velocity Hurricane Zone" (HVHZ).

Supporting Technical Documentation:
1. Approval document: drawing number 1199FPA-1D-1 – REV I, signed and sealed by A. Lynn Miller, P.E.
2. Test Report No. FTL 17-7538, 18-8080, 20-1043, 20-2182 & 20-1019 & QAI 22-1004, NOK-0032, NOK-0099a & NOK-0103a signed and sealed by Idalmis Ortega, P.E.; Fenestration Testing Laboratories, Nokomis, FL 34275

TAS 201-94 Large Missile Impact Test
TAS 202-94 Uniform Static Air Pressure Test
TAS 203-94 Cyclic Pressure Loading Test

3. Anchor and Anchor Table Calculations, signed and sealed by A. Lynn Miller, P.E., dated 6/18/19, 8/10/20 & 5/31/24

4. Design Pressure Calculations, signed and sealed by A. Lynn Miller, P.E., dated 5/31/24 & 8/6/25

4. Miami-Dade RER Product Control Section NOA's; Trosifol PVB or SentryGlas Interlayer by Kuraray America, Inc.

Limitations and Conditions of use:
- Units must be glazed per ASTM E1300-09, refer to approval document for glazing details.
- This product is rated to be used in the HVHZ.
- This product is impact resistant and does not require impact protection in wind borne debris regions.
- Frame and panel material to be extruded Aluminum.
- Units must be installed in accordance with approval document, 1199FPA-1D-1.



A. Lynn Miller, P.E.
P.E. # 58705

SERIES BF1199A IMPACT-RESISTANT, ALUMINUM, OUTFOLDING BIFOLD DOOR

FLORIDA PRODUCT APPROVAL #18750

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 NOT 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 EVALUATION WERE SOUTHERN PINE, ASTM C90 CONCRETE MASONRY UNITS (CMUS) OF NORMAL WEIGHT AND OF COMPRESSIVE STRENGTH OF MIN 1.9 KSI AND CONCRETE WITH MIN. 3KSI PER ANCHOR TYPE.

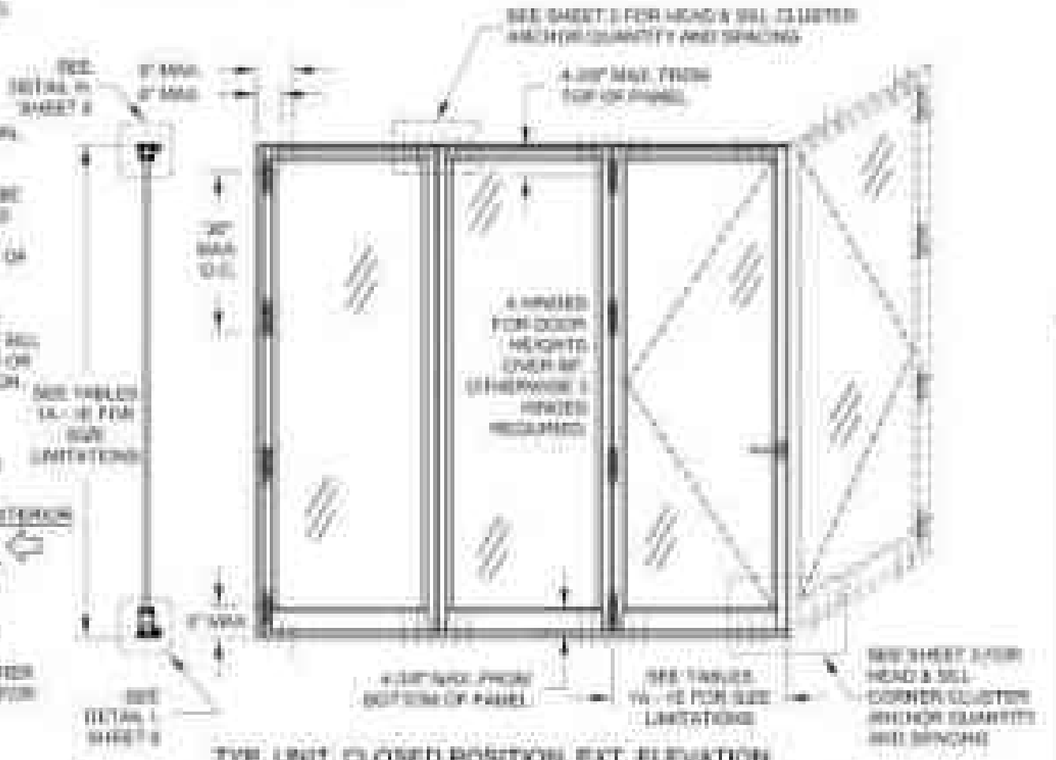
4.) MASONRY ANCHORS MAY BE USED INTO WOOD AS PER TABLE 3, SHEET 2. ALL WOOD BUCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED IN INSTALLATIONS. 1X WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SUBSTRATE. WOOD BUCKS SPECIFIED AS 2X ARE 1-1/2" THICK OR GREATER. 1X AND 2X BUCKS WHEN USED SHALL 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 GAP 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 FLUSH 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. COMPLY 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. WARRIOR JOINT SEALANT IS USED ON ALL FOUR (4) 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.) MIN. 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 WIND LOADS CORresponding TO THE REQUIRED DESIGN PRESSURE. THE 33.1/3% STRESS INCREASE WAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. THE 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. DESIGN LOADS ARE BASED ON ALLOWABLE STRESS DESIGN (ASD).



TYP. UNIT, CLOSED POSITION, EXT. ELEVATION



TYP. UNIT, OPEN POSITION, X-SECTION

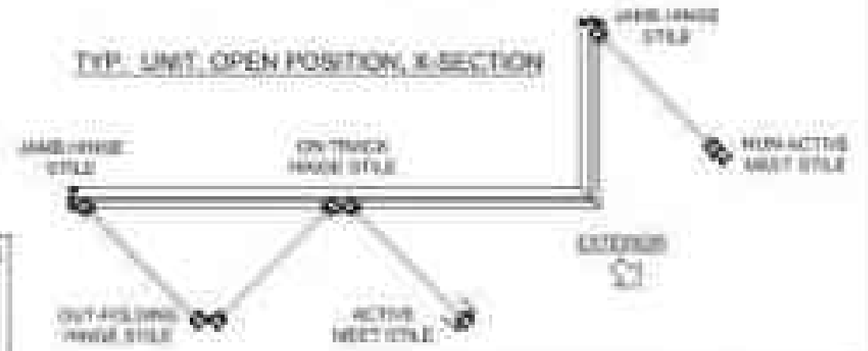


TABLE 1A

Panel Height	Design Pressure (lbs/ft²) for Glass Type I (Clear Glass)					
	12"	24"	36"	48"	60"	96"
80"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
84"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
90"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
96"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
108"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
120"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
132"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
144"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50

TABLE 1B (*) LIMITED TO +50.0 PSF

Panel Height	Design Pressure (lbs/ft²) for Glass Types II, III, IV, V, VI, VII, VIII & IX (*) (Tempered Glass)					
	12"	24"	36"	48"	60"	96"
80"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
84"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
90"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
96"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
108"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
120"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
132"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
144"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50

TABLE 1C

Panel Height	Design Pressure (lbs/ft²) for Glass Type X (Clear Glass)					
	12"	24"	36"	48"	60"	96"
80"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
84"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
90"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
96"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
108"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
120"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
132"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
144"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50

CONFIGURATIONS SHOWN THROUGHOUT THIS APPROVAL ARE SAMPLE CONFIGURATIONS. ANY VERTICAL STILE COMBINATION FROM DETAILS 4-5, MAY BE USED IN ANY CONFIGURATION.

TABLE 2B

Panel Height	Design Pressure (lbs/ft²) for Glass Types II & III (Tempered Glass)					
	12"	24"	36"	48"	60"	96"
80"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
84"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
90"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
96"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
108"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
120"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
132"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
144"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50

TABLE 2C

Panel Height	Design Pressure (lbs/ft²) for Glass Type X (Clear Glass)					
	12"	24"	36"	48"	60"	96"
80"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
84"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
90"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
96"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
108"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
120"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
132"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50
144"	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50	+50/-50

TABLES 1A-1E WATER INFILTRATION RESISTANCE MAY APPLY. SEE FIG. 8 ON SHEET 2.

OUTSIDE HOOK: UNLIMITED NUMBER OF PANELS PROVIDED MAXIMUM PANEL SIZE FROM TABLES 1A-1E IS NOT EXCEEDED.

INSIDE HOOK: UNLIMITED NUMBER OF PANELS PROVIDED MAXIMUM PANEL SIZE FROM TABLES 1A-1E AND MAXIMUM PANEL SQUARE FOOTAGE OF 120 FT² IS NOT EXCEEDED.

THIS PRODUCT CAN BE USED IN WINDOW APPLICATIONS.

DESIGN PRESSURE RATING
SEE TABLES 1A - 1E THIS SHEET
IMPACT RATING
RATED FOR LARGE & SMALL MISSILE IMPACT RESISTANCE
WATER PRESSURE RATING
15% OF THE (+) DESIGN PRESSURE UNLESS NOTED OTHERWISE

CORRECTED TABLE 1A

LMY - 8/1/25

PREPARED BY:	ANTHONY LYNN MILLER, P.E.
SITE PERMANENT DOOR ADDRESS:	N/A
N. VENICE, FL 34275	
941-488-4466	
REGISTERED ENGINEER	
DATE:	08/11/25
REVISIONS:	1
DRAWING NO.	SERIES BF1199A
SHEET	1 OF 8
WINDOOR	
ALUMINUM BIFOLD DOOR (IMPACT)	
GENERAL NOTES	
SERIES BF1199A	

ANTHONY LYNN MILLER, LICENSE NO. 58705, STATE OF FLORIDA, PROFESSIONAL ENGINEER

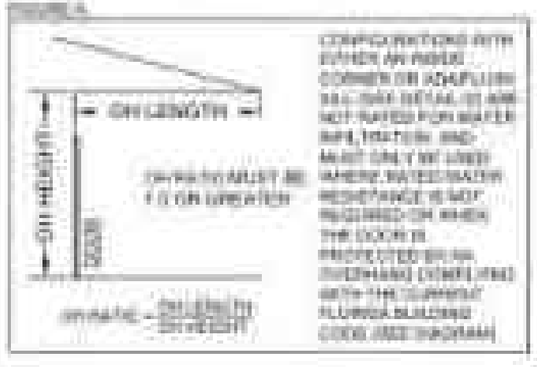
A. LYNN MILLER, P.E. FL# 58705

TABLE 1

Min. Quantity of Anchors at Jamb & Head/Sill Cluster

Frame Height	Anchor Location at Frame	Anchor Group	Panel Width					
			23"	35"	47"	59"	71"	83"
80"	Head & Sill Cluster	A	4	5	5	6	6	7
	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	5	6	6	6	6	7
	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	5	5	5	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
108"	Head & Sill Cluster	A	5	6	6	6	6	7
	Jamb		4	4	4	4	4	4
	Head & Sill Cluster	B	3	3	4	4	5	5
	Jamb		4	4	4	4	4	4
120"	Head & Sill Cluster	A	6	6	6	6	7	
	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	6	6	6	6		
	Jamb		5	5	5	5		
	Head & Sill Cluster	B	3	4	5	5		
	Jamb		5	5	5	5		
144"	Head & Sill Cluster	A	6	7	7	8		
	Jamb		5	5	5			
	Head & Sill Cluster	B	3	3	3			
	Jamb		5	5	5			

(1) (2 WIDTH + FRAME WIDTH - 4 1/2"
(1) (2 HEIGHT + FRAME HEIGHT - 11 3/4"



COMPLY WITH FLORIDA RESIDENTIAL CODE, SECTION R322.1.10 (OR THE CURRENT FLORIDA BUILDING CODE, RESIDENTIAL) REQUIREMENTS FOR MEMBERS LOCATED IN FLOOD HAZARD AREAS.

NOTES:

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

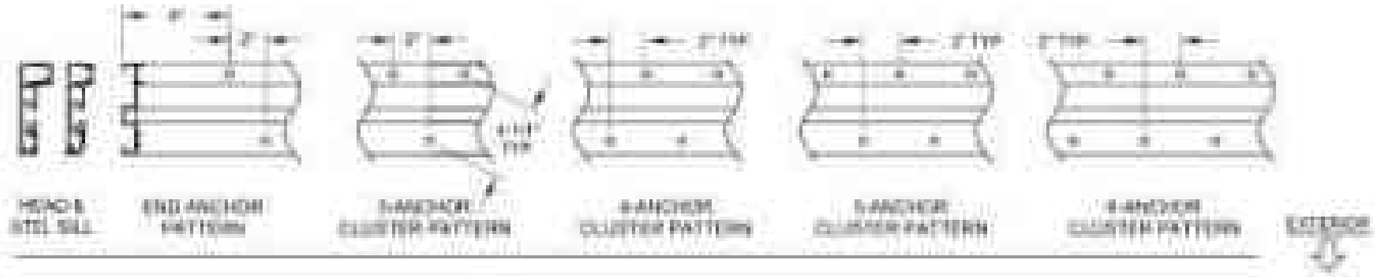
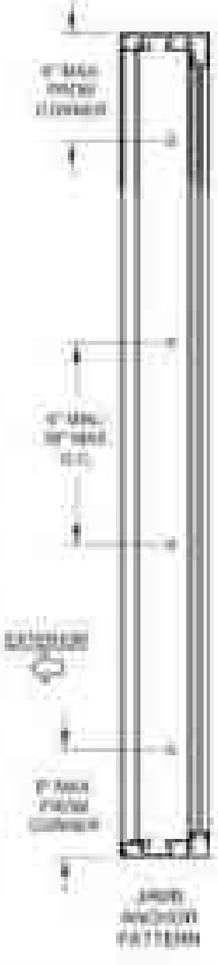


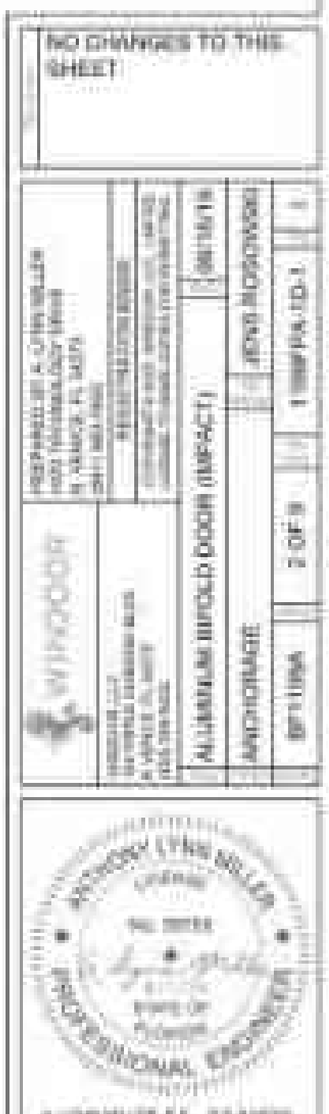
TABLE 2

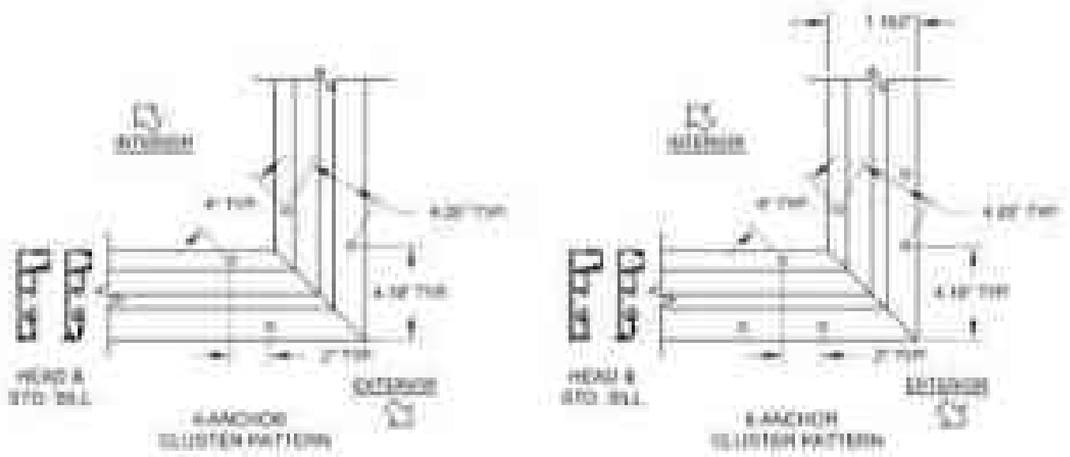
Anchor Group	Anchor Type	Frame Member	Substrate	Min. Edge Distance	Min. Embedment or Metal Thickness
A	#12 Steel SMS (Gr. 5) or 1/4-56 SMS	MJ	Southern Pine (SG = 0.55)	5/16"	1-3/8"
			6063-T6 Aluminum	3/8"	0.121"
			A36 Steel	3/8"	.060"
			Steel Stud, Gr. 33	3/8"	0.044" (18 Ga)
	1/4" Elco UltraCon, 1/4" #10 SS Elco ChemPlex Hi CAP ZeWall Ultrascrew	MJ	Southern Pine (SG = 0.55)	1"	1-3/8"
	1/4" ZeWall Ultrascrew	MJ	Concrete (min. 3.0 ksi)	1-1/4"	1-3/8"
		Jamb	Hollow or Grout-filled CMU (ASTM C90)	1"	1-1/8"
	1/4" #10 SS Elco ChemPlex	MJ	Concrete (min. 2.35 ksi)	1"	1-3/4"
B	1/4" ZeWall Ultrascrew	MJ	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" #10 SS Elco ChemPlex	MJ	Concrete (min. 2.35 ksi)	1-3/4"	1-3/4"
		Jamb	Hollow or Grout-filled CMU (ASTM C90)	2-1/2"	1-1/8"

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



NO CHANGES TO THIS SHEET





OUTSIDE CORNER CLUSTER PATTERNS

INSIDE CORNER CLUSTER PATTERNS

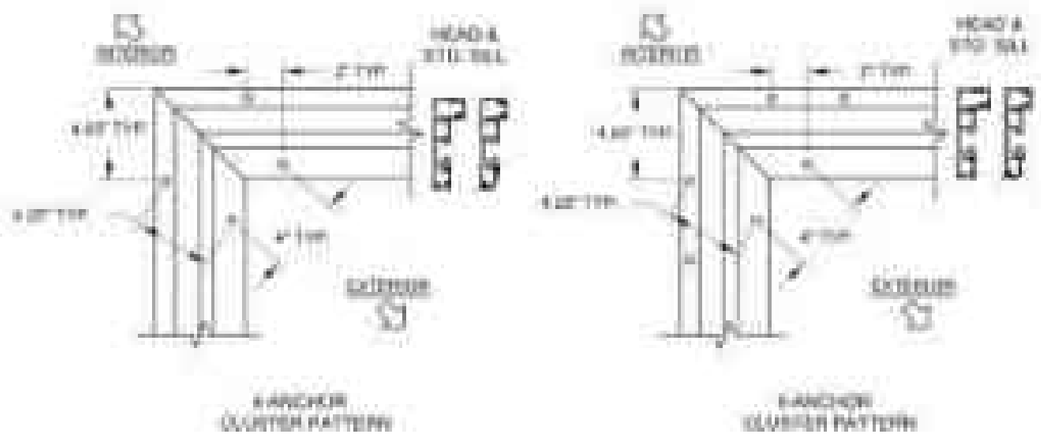


TABLE 4

Min. Quantity of Anchors at Corner Cluster

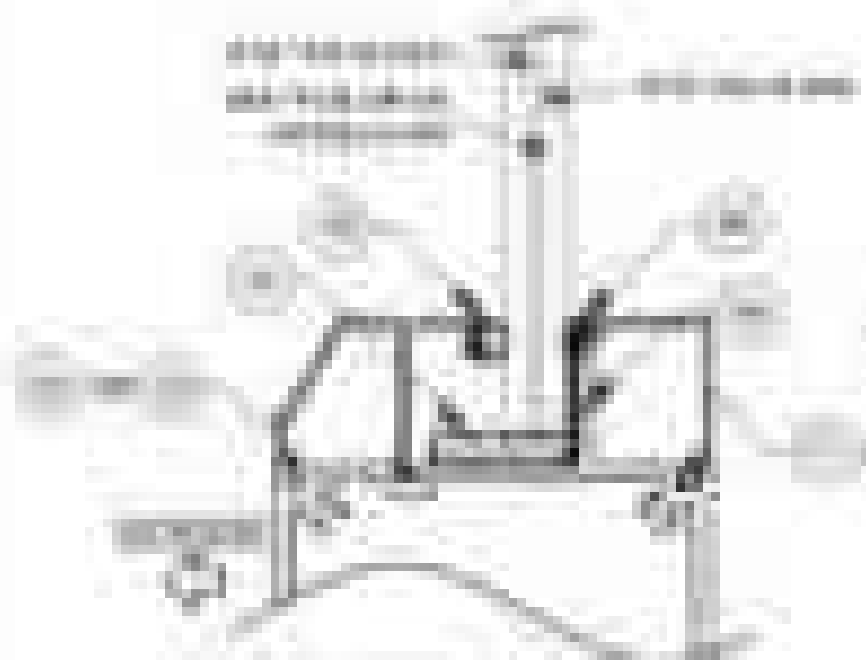
Frame Height	Anchor Location on Frame	Anchor Group	Panel Width 12"	20"	22"	28"	42"	48"
80"	Head and Sill	A	4	4	4	4	4	6
		B	4	4	4	4	4	4
90"	Head and Sill	A	4	4	4	4	6	6
		B	4	4	4	4	4	4
100"	Head and Sill	A	4	4	4	6	6	6
		B	4	4	4	4	4	6
120"	Head and Sill	A	4	6	6	6	6	
		B	4	4	4	4	6	
126"	Head and Sill	A	4	6	6	6		
		B	4	4	4	4		
133 7/8"	Head and Sill	A	4	6	6	6		
		B	4	4	4	4		
144"	Head and Sill	A	4	4	4			
		B	6	6	6			

GLS WIDTH = PANEL WIDTH - 4 1/2"
GLS HEIGHT = FRAME HEIGHT - 11 1/16"

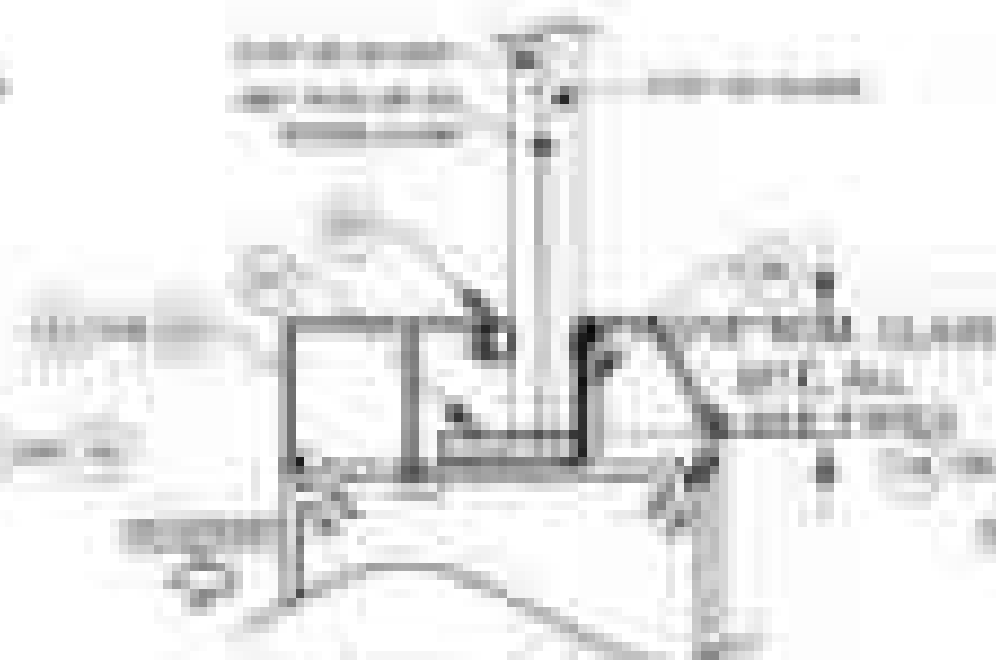
NO CHANGES TO THIS SHEET

DESIGNED A. CHRISTIANSEN	
DRAWN A. CHRISTIANSEN	
CHECKED	
DATE 08/13/19	
SCALE AS SHOWN	
JOB NO. PW-TD-1	—
ALUMINUM BIFOLD DOOR (IMPACT)	
CORNER ANCHORAGE	3 OF 3
BY-LAWS	

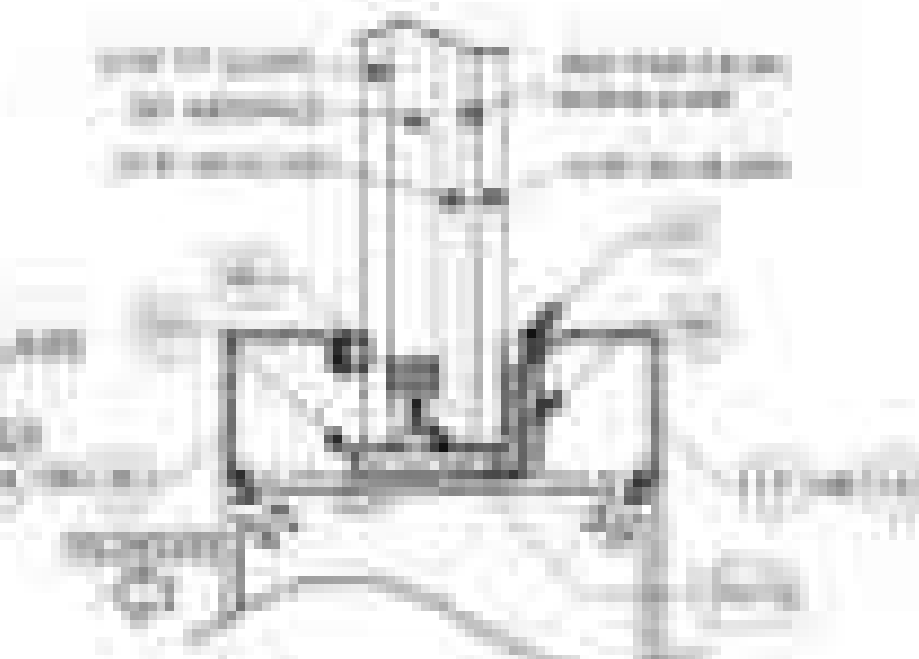




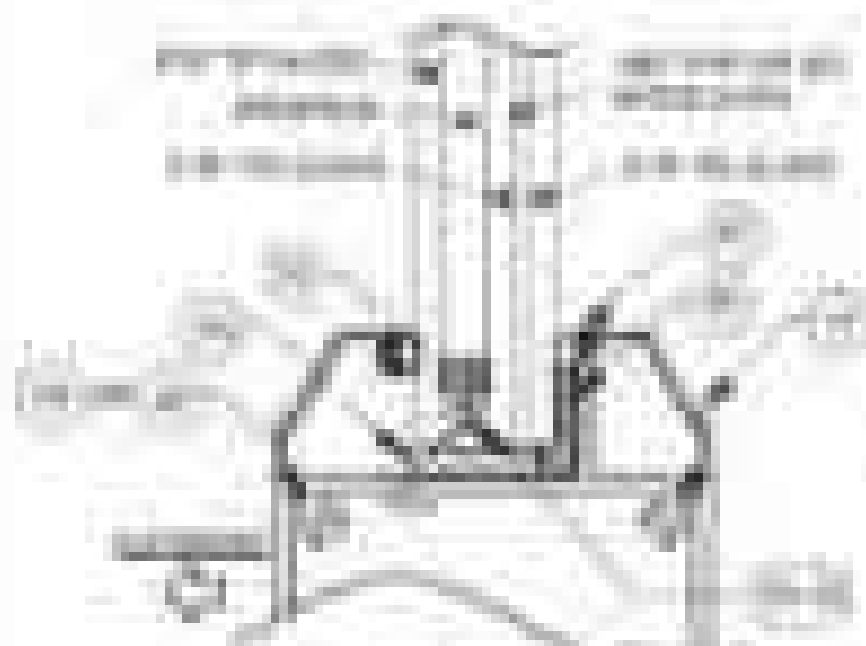
GLASS TYPE 1 (WITH PVB)
GLASS TYPE 2 (WITH SG)
(7/16" NOM. GLASS STACK)



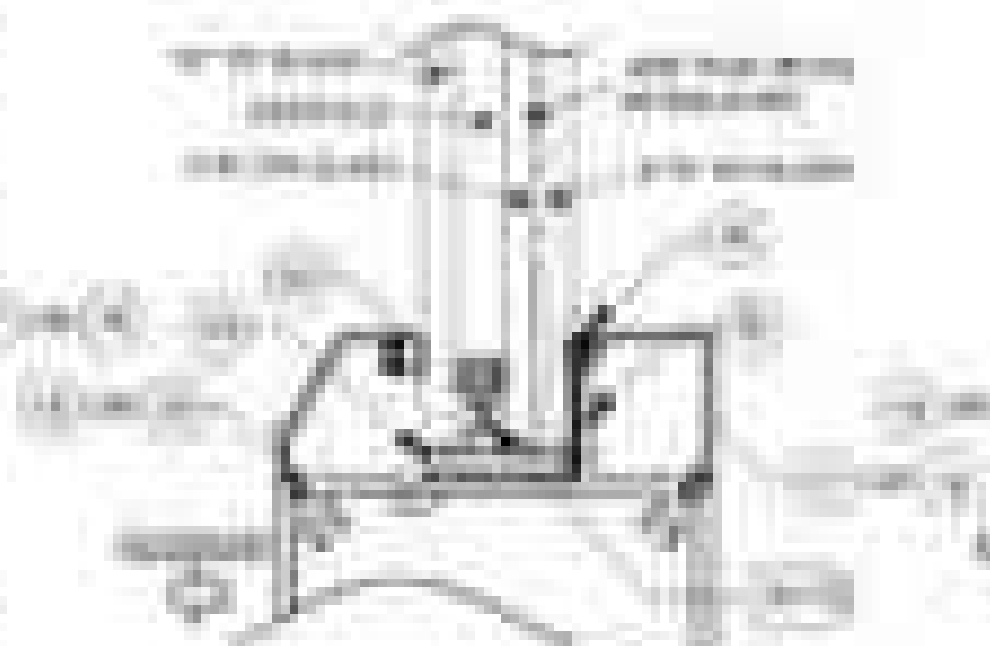
GLASS TYPE 3 (WITH PVB)
GLASS TYPE 4 (WITH SG)
(7/16" NOM. GLASS STACK)



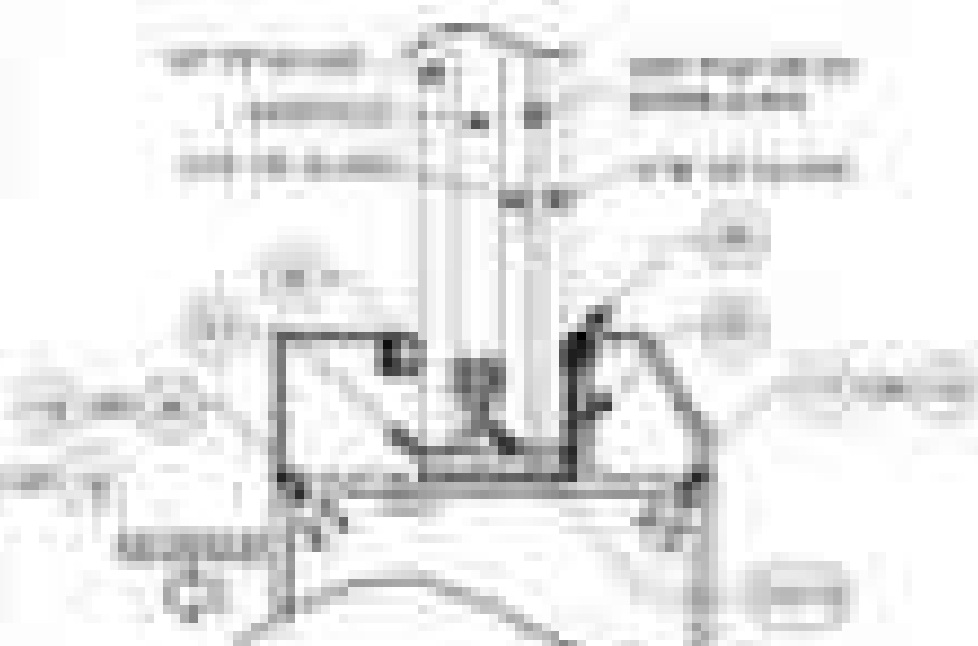
GLASS TYPE 5 (WITH PVB)
GLASS TYPE 6 (WITH SG)
(1" NOM. GLASS STACK)



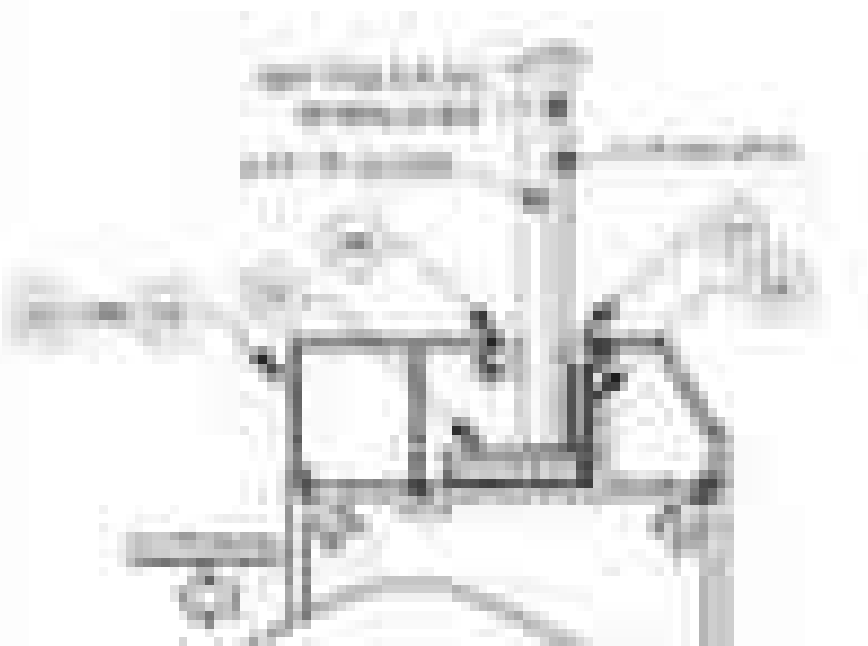
GLASS TYPE 7 (WITH PVB)
GLASS TYPE 8 (WITH SG)
(1" NOM. GLASS STACK)



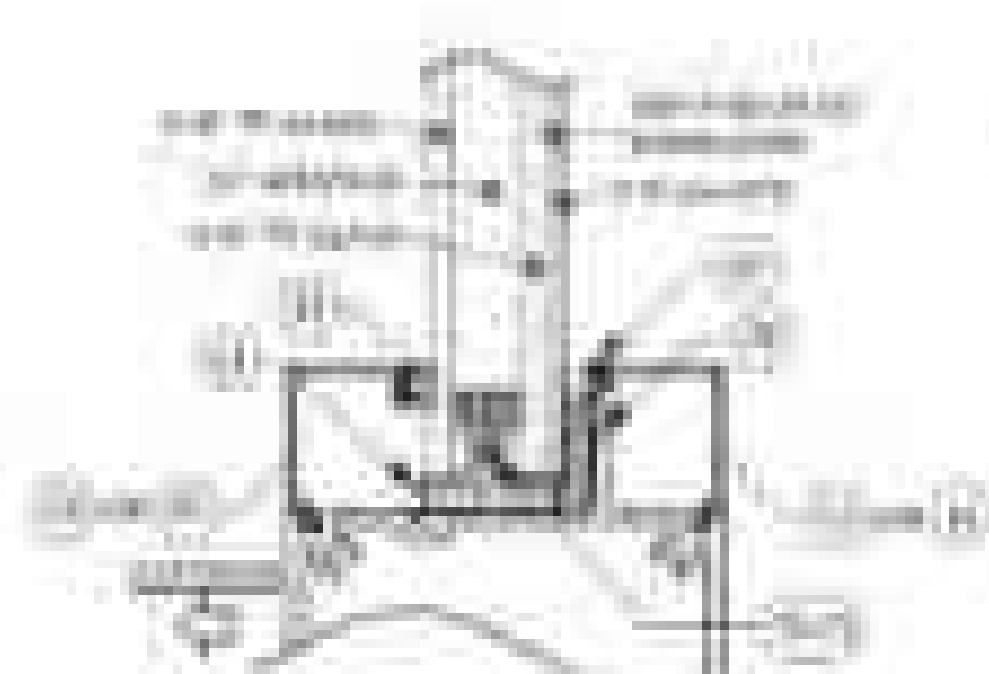
GLASS TYPE 9 (WITH PVB)
GLASS TYPE 10 (WITH SG)
(1-1/16" NOM. GLASS STACK)



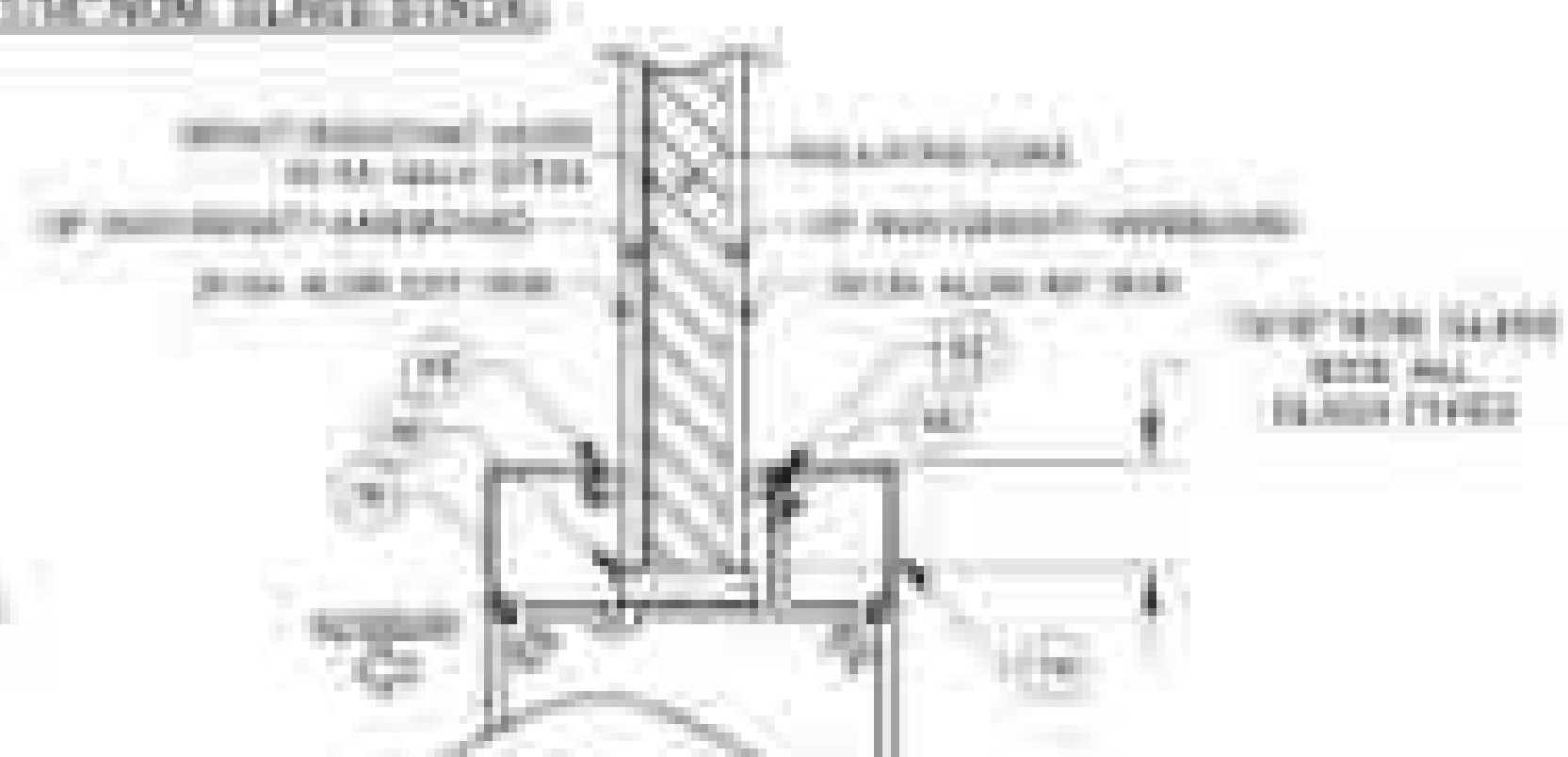
GLASS TYPE 11 (WITH PVB)
GLASS TYPE 12 (WITH SG)
(1-1/16" NOM. GLASS STACK)



GLASS TYPE 13 (WITH PVB)
GLASS TYPE 14 (WITH SG)
(5/16" NOM. GLASS STACK)



GLASS TYPE 15 (WITH PVB)
GLASS TYPE 16 (WITH SG)
(1" NOM. GLASS STACK)



GLASS TYPE 17 (OPAQUE PANEL)
MAPES ARCHITECTURAL PANEL
(1" NOM.)

TABLE 1

Glass Type	Description (Listed from Exterior to Interior)
1	3/16" AN, .090" PVB, 3/16" AN
2	3/16" AN, .100" SG, 3/16" AN
3	3/16" HS, .090" PVB, 3/16" HS
4	3/16" HS, .100" SG, 3/16" HS
5	1" I.G. [illegible] TP CAP, AIRSPACE, [illegible]
6	1" I.G. [illegible] TP CAP, AIRSPACE, [illegible]
7	1" I.G. [illegible] TP CAP, AIRSPACE, [illegible]
8	1" I.G. [illegible] TP CAP, AIRSPACE, [illegible]
9	1-1/16" I.G. [illegible] TP CAP, AIRSPACE, [illegible]
10	1-1/16" I.G. [illegible] TP CAP, AIRSPACE, [illegible]
11	1-1/16" I.G. [illegible] TP CAP, AIRSPACE, [illegible]
12	1-1/16" I.G. [illegible] TP CAP, AIRSPACE, [illegible]
13	[illegible]
14	[illegible]
15	1" I.G. [illegible]
16	1" I.G. [illegible]
17	MAPES ARCHITECTURAL OPAQUE PANEL

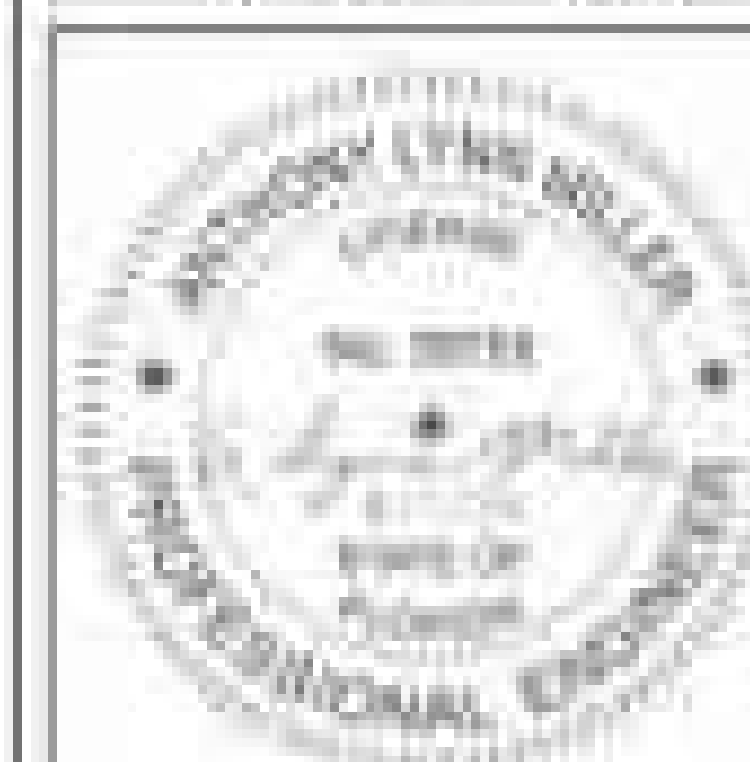
AN = ANNEALED
HS = HEAT STRENGTHENED
TP = TEMPERED
PVB = .090" "TROSIFOL" PVB INTERLAYER BY KURARAY AMERICA, INC.
SG = .100" "SENTRYGLAS" INTERLAYER BY KURARAY AMERICA, INC.
ATG = 5.7mm ARCHITECTURAL TECHNICAL GLASS BY CORNING, INC.

NO CHANGES TO THIS SHEET

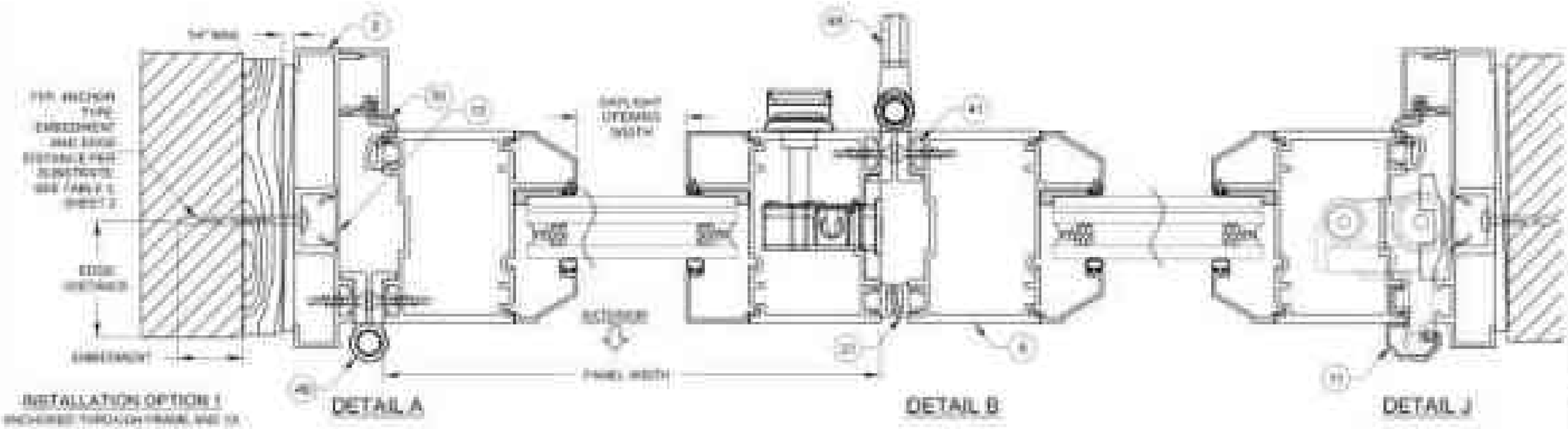
ALUMINUM BIFOLD DOOR (IMPACT)

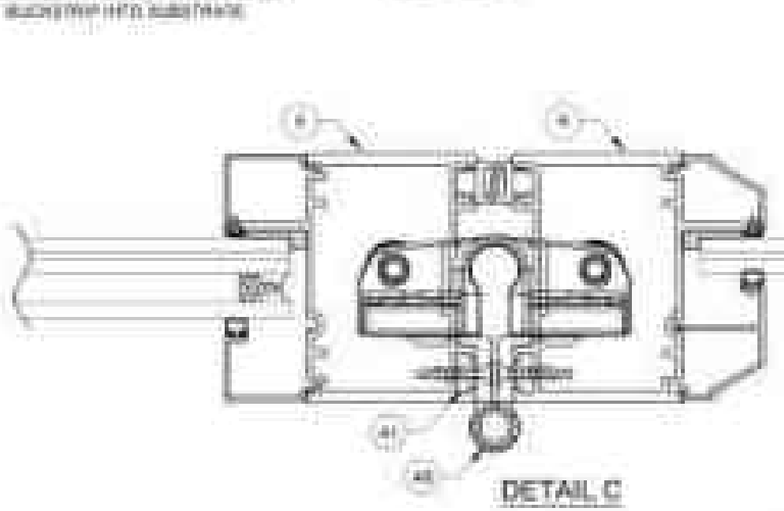
GLAZING

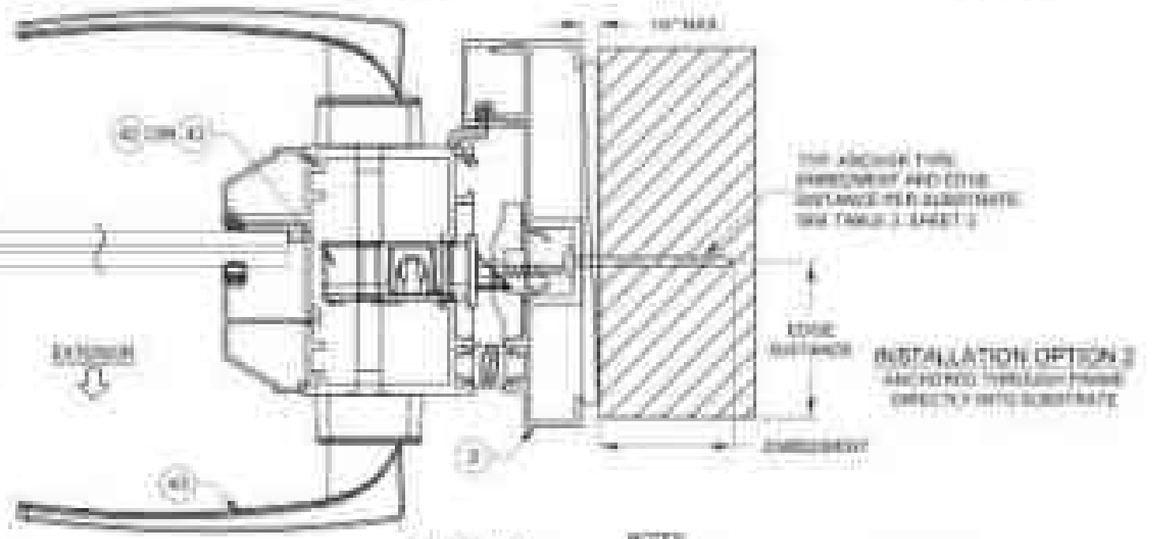
4 OF 5

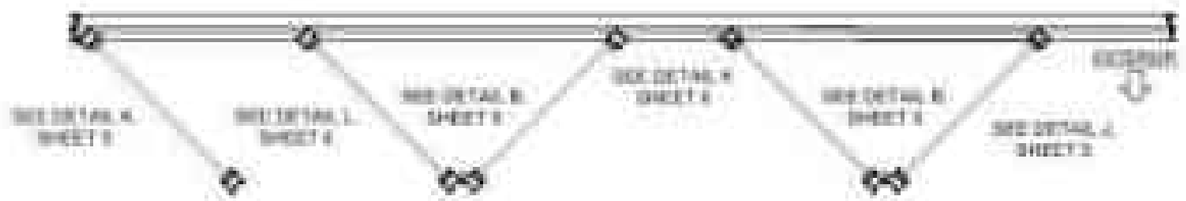


A. LYNN MILLER, P.E.









NOTES:

1) USE ONLY SUBSTRATE APPROPRIATE ANCHORS. FOLLOW ENCLOSURE SCREW DISTANCE AND SUBSTRATE REQUIREMENTS PER TABLE 1, SHEET 2. ANY INSTALLATION OPTION SHOWN MAY BE USED. ALL ANCHOR HEAD TYPES ARE ALLOWED.

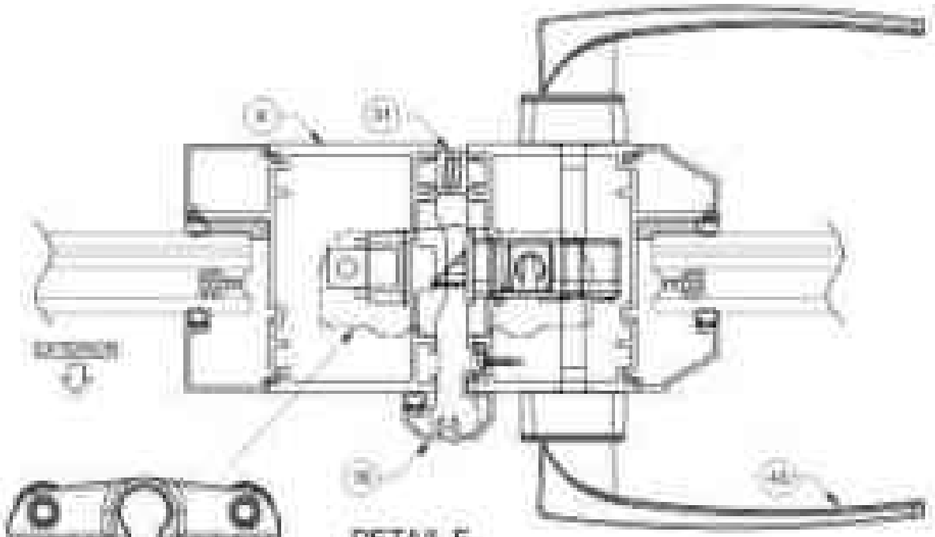
2) ALL WOOD BUCKS LESS THAN 1 1/2" THICK ARE TO BE CONSIDERED AS INSTALLATION 2. 1X WOOD BUCKS AND UP TO 4" WOOD BUCKS MAY BE INSTALLED DIRECTLY TO SUBSTRATE. WOOD BUCKS DEFINED AS 2X ARE 1 1/2" THICK OR GREATER. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD.

NO CHANGES TO THIS SHEET

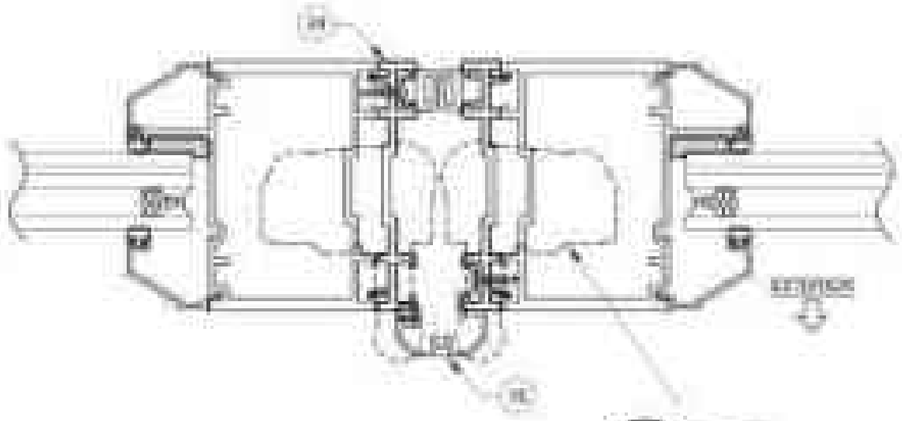
REVISIONS	08/16/19	ADD ADDENDUM	-
ALUMINUM BIFOLD DOOR (IMPACT)		HOME SECTION	5 OF 9
			BF11094

ANTHONY LYNN MILLER
LICENSE
No. 59918
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

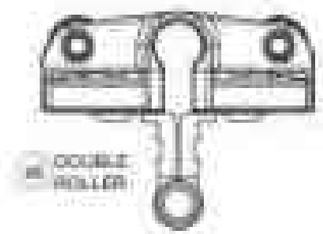
A. LYNN MILLER, P.E. P.E.#59918



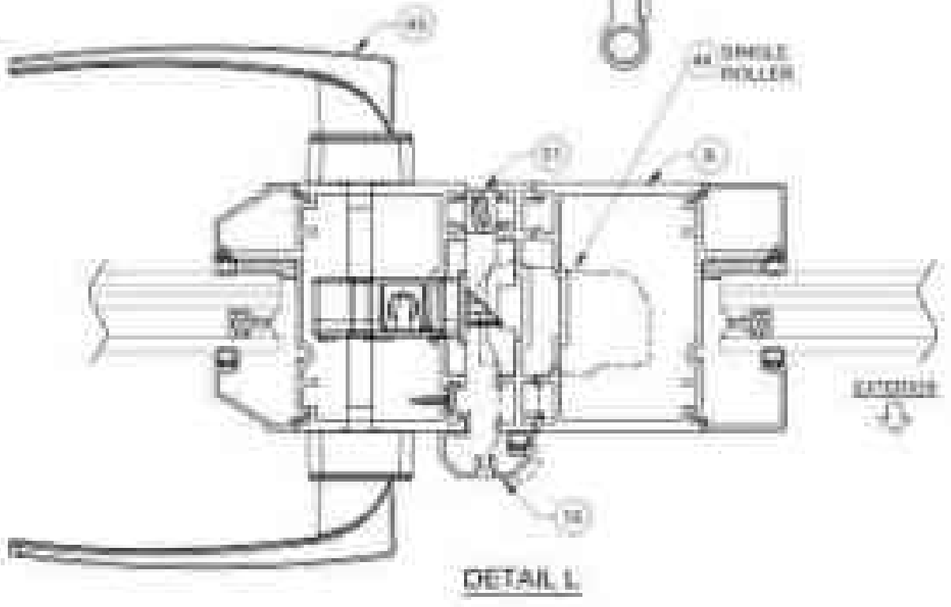
DETAIL E



DETAIL K





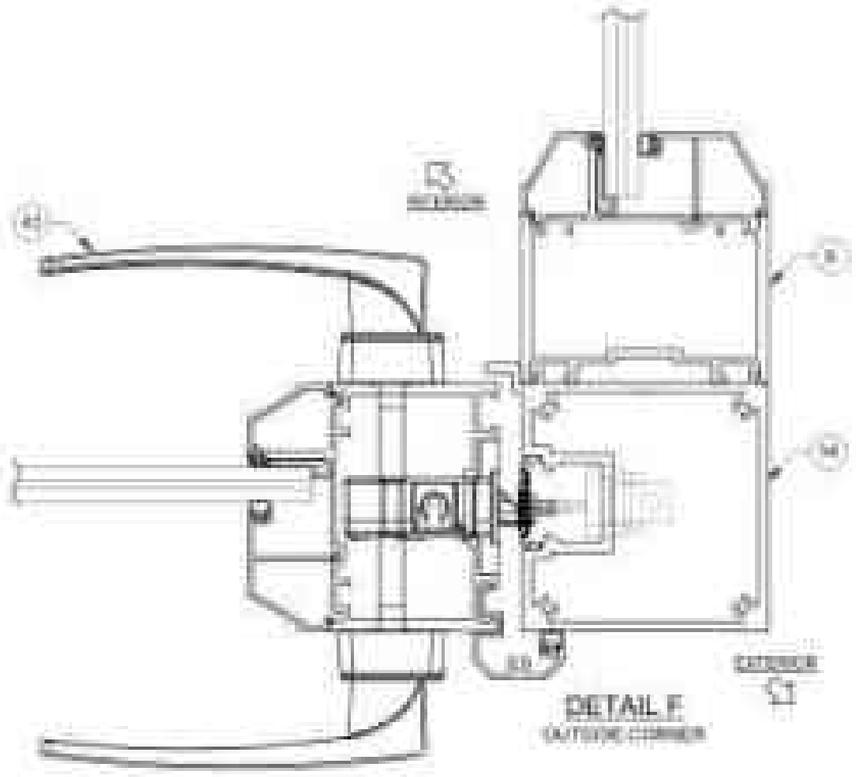


DETAIL L

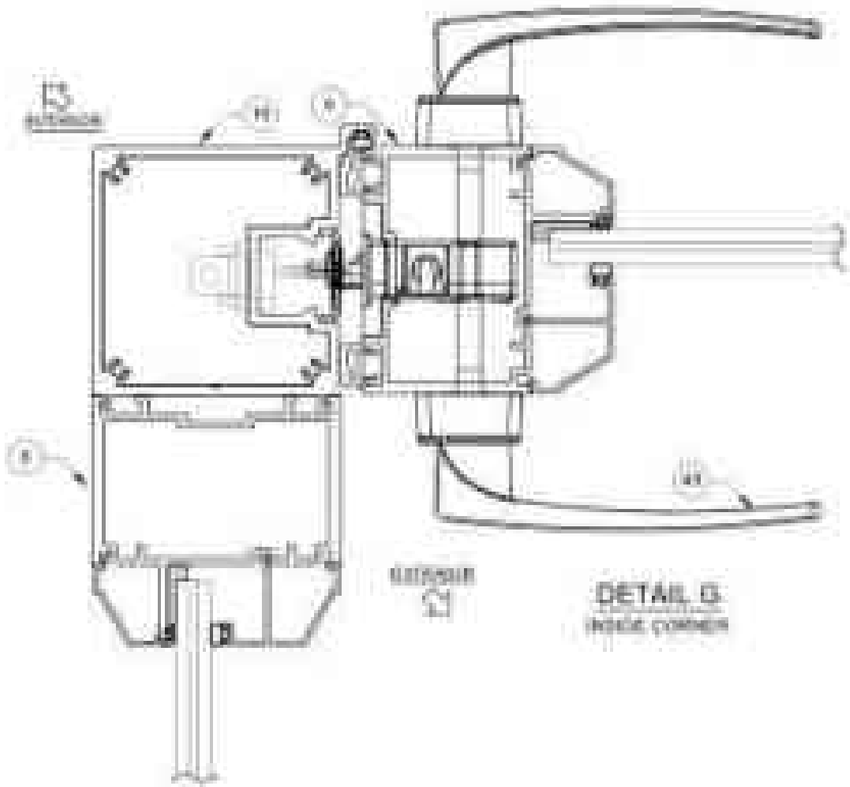
NO CHANGES TO THIS SHEET

			ALUMINUM BIFOLD DOOR (IMPACT)	
			CENTER MEET DETAILS	5 OF 5
				BF1150A

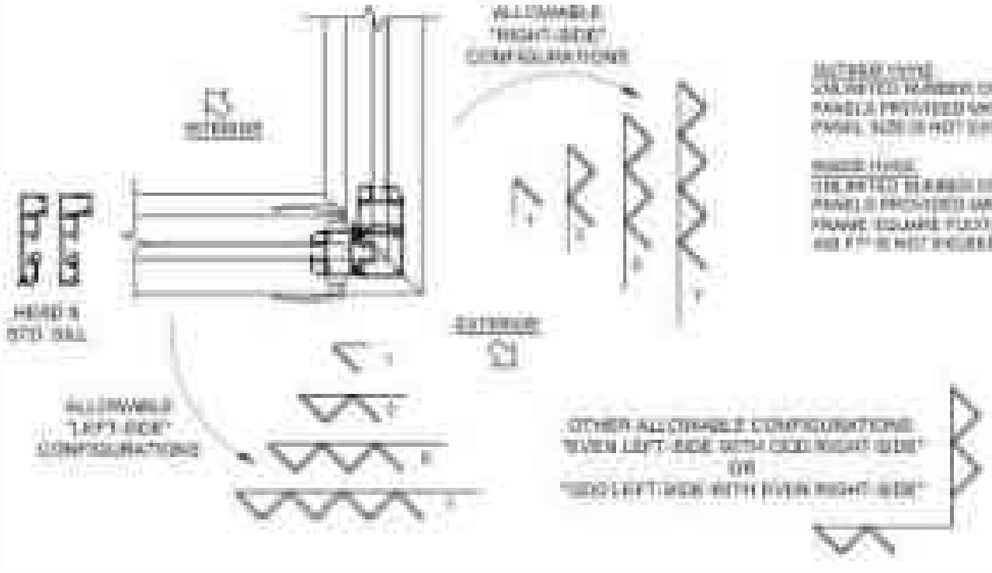
PROFESSIONAL ENGINEER
STATE OF FLORIDA

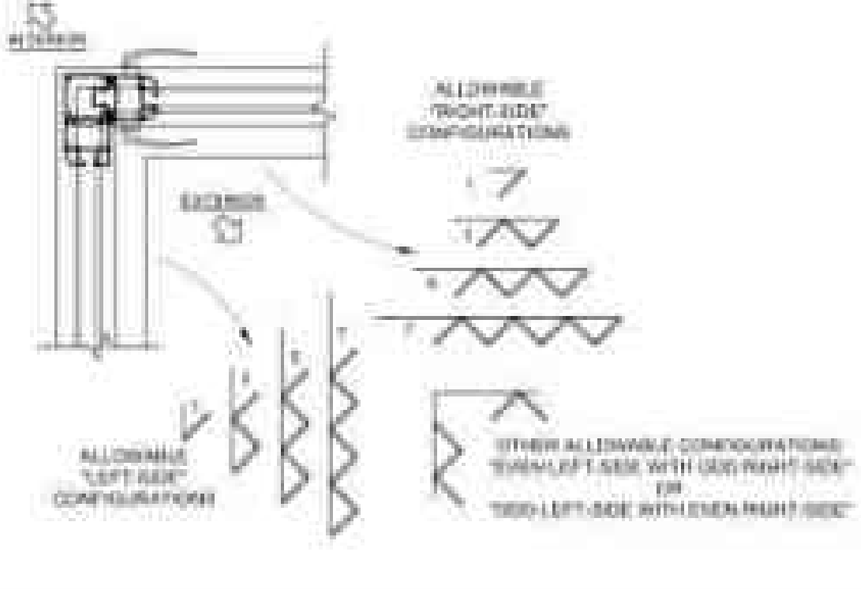


DETAIL F
OUTSIDE CORNER



DETAIL G
INSIDE CORNER





NO CHANGES TO THIS SHEET

1	08/18/16	PER PLAN REVIEW

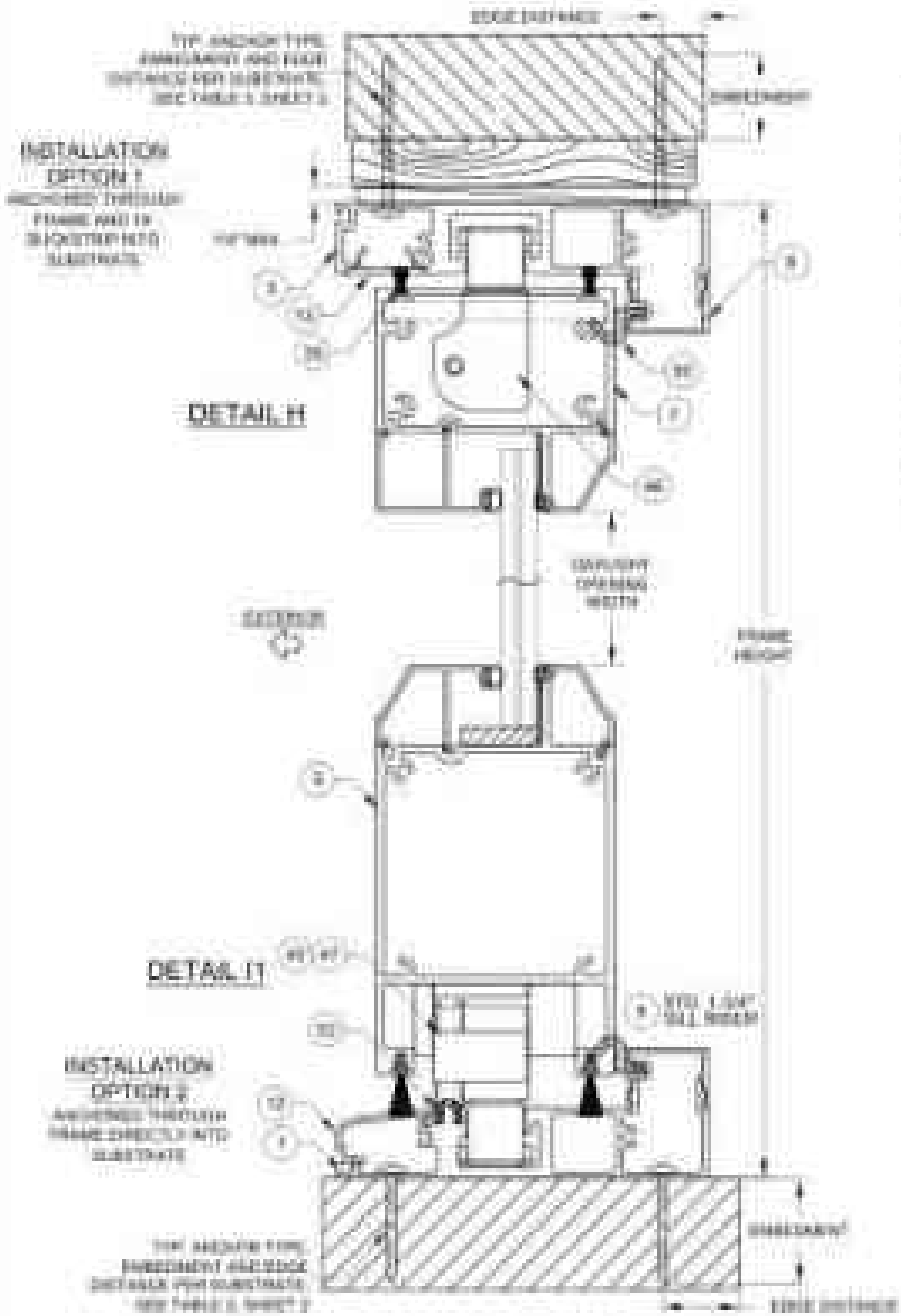
ALUMAWALL IMPACT DOOR (IMPACT)

CORNER DOOR DETAILS

BP# 11994

7 OF 9



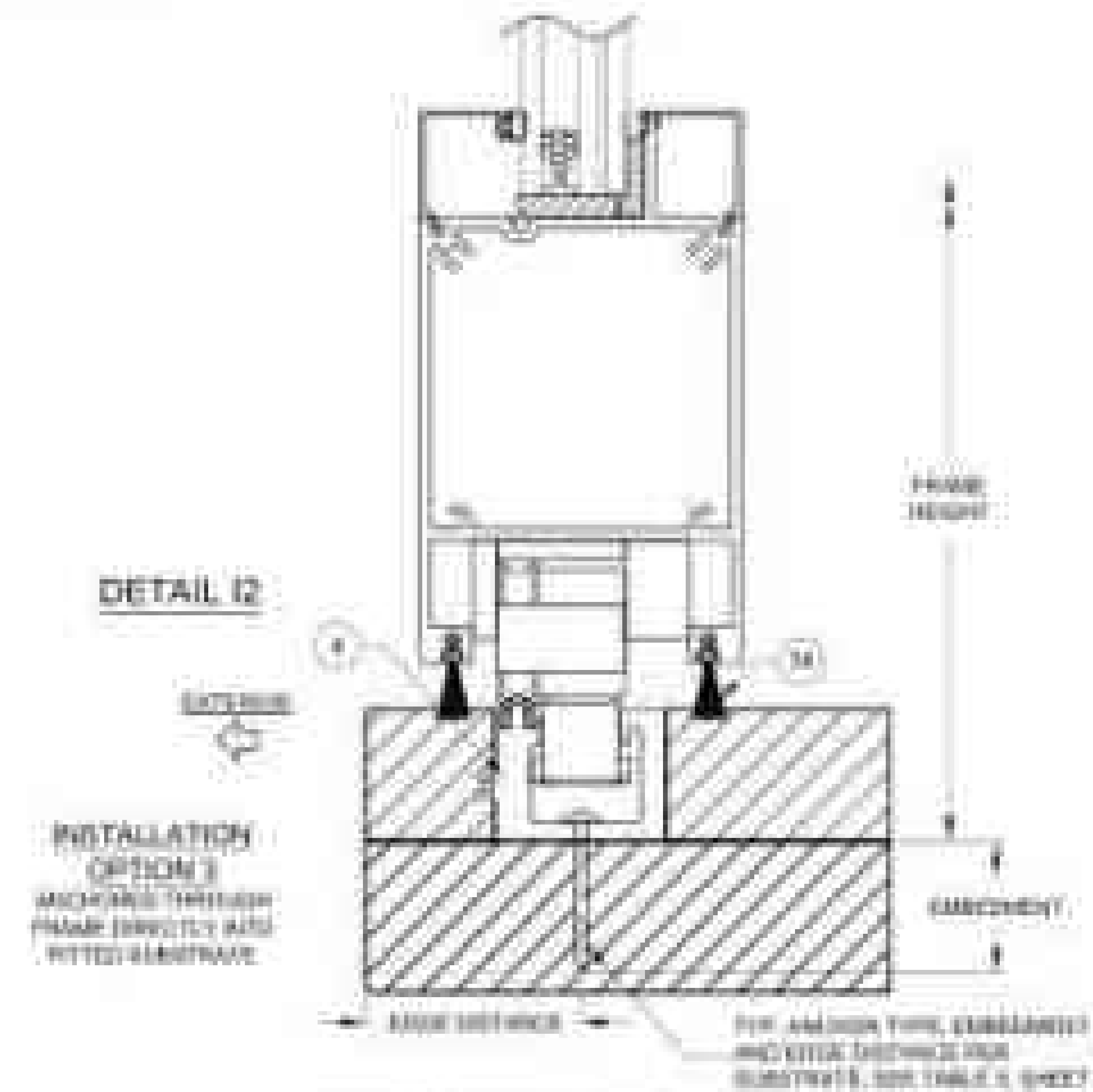


OUT-FOLD WITH STANDARD SILL

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.



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

NO CHANGES TO THIS SHEET

ALUMINUM BIFOLD DOOR (IMPACT)

VERTICAL DETAILS

8 OF 9



A. LYNN MILLER, P.E.

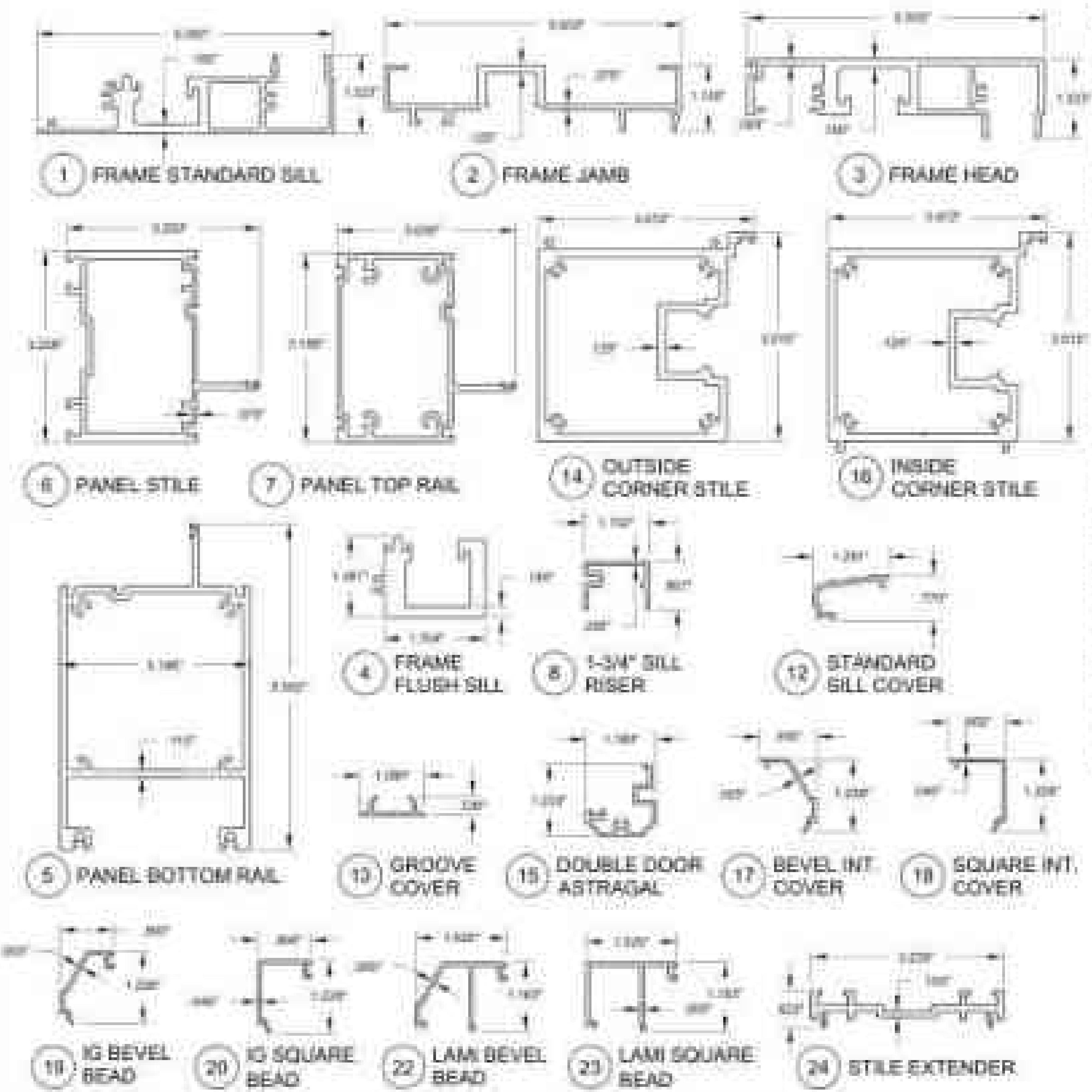


TABLE A

ITEM	PART#	DESCRIPTION	MATERIALS
1	[illegible]	Frame Sill	6063-T6
2	[illegible]	Frame Jamb	6063-T6
3	[illegible]	Frame Head	6063-T6
4	[illegible]	Frame Flush Sill (ADA)	6063-T6
5	[illegible]	Panel Bottom Rail	6063-T6
6	[illegible]	Panel Stile	6063-T6
7	[illegible]	Panel Top Rail	6063-T6
8	[illegible]	1-3/4" Sill Riser/Frame Adapter	6063-T6
11			
12	[illegible]	Standard Sill Cover	6063-T6
13	[illegible]	Groove Cover	6063-T6
14	[illegible]	Outside Corner Stile	6063-T6
15	[illegible]	Double Door Astragal	6063-T6
16	[illegible]	Inside Corner Stile	6063-T6
17	[illegible]	Bevel Interior Bead	6063-T6
18	[illegible]	Square Interior Bead	6063-T6
19	[illegible]	IG Bevel Bead	6063-T6
20	[illegible]	IG Square Bead	6063-T6
22	[illegible]	LAMI Bevel Bead	6063-T6
23	[illegible]	LAMI Square Bead	6063-T6
24	[illegible]	Stile Extender	6063-T6
26	[illegible]	[illegible] gasket	Vinyl
31	[illegible]	Panel Meeting Gasket [illegible]	Vinyl
32	[illegible]	Meeting Rails Weatherstrip	Vinyl
33		Setting Block [illegible]	EPDM
34	[illegible]	[illegible]	
35	[illegible]	[illegible]	
36	[illegible]	Small Sill Leg Weatherstrip	Vinyl
37	[illegible]	Large Sill Leg Weatherstrip	Vinyl
38	[illegible]	[illegible] Bulb Weatherstrip	
41	[illegible]	Hinge Fastener Kit	SS
42	[illegible]	Active Handle Kit, Shoot Bolt Type	
43	[illegible]	Active Handle Kit, Hook Latch Type	
44	[illegible]	Single Guide Hinge Assembly, top [illegible]	SS
45	[illegible]	Single Roller Hinge Assembly, bottom [illegible]	SS
46	[illegible]	Double Guide Hinge Assembly, top	SS
47	[illegible]	Double Roller Hinge Assembly, bottom	SS
48	[illegible]	Hinge Assembly Kit w/o Handle	SS
49	[illegible]	Hinge Assembly Kit w/ Handle	SS
50	[illegible]	[illegible]	
51	[illegible]	Assembly Screw #12 x 1-1/2 PH SMS	SS
52	[illegible]	Stainless Steel Sill Cap	SS
70	[illegible]	[illegible]	[illegible]
71	[illegible]	[illegible]	[illegible]
72	[illegible]	[illegible]	[illegible]

NO CHANGES TO THIS SHEET

ALUMINUM BIFOLD DOOR (IMPACT)

EXTRUSIONS, BOM

