

afc

AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 9360 SUNSET DRIVE, SUITE 220
 MIAMI, FLORIDA 33173 (C.A.N. 3538)
 TEL. (305) 264-8100 FAX. (305) 262-6978

COMP-ANL\W17-68AMA

THESE DOORS ARE RATED FOR LARGE & SMALL MISSILE IMPACT.
 SHUTTERS ARE NOT REQUIRED.

**SERIES 'CONTINENTAL MULTI-FOLD'
 OUTFOLDING ALUMINUM DOOR**

DOORS APPROVED FOR INSTALLATIONS WHERE WATER INFILTRATION
 RESISTANCE IS REQUIRED.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE
 REQUIREMENTS OF THE 2020 (7TH EDITION)/2023 (8TH EDITION) FLORIDA
 BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

1BY OR 2BY WOOD BUCKS & BUCK FASTENERS BY OTHERS, MUST BE
 DESIGNED AND INSTALLED ADEQUATELY TO TRANSFER APPLIED PRODUCT
 LOADS TO THE BUILDING STRUCTURE.

ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS
 AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE
 MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.
 ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT
 COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE
 REQUIREMENTS OF THE 2020/2023 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION
 FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY
 OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR
 WATER INFILTRATION RESISTANCE ETC.
 CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY,
 AND TO BE REVIEWED BY BUILDING OFFICIAL.

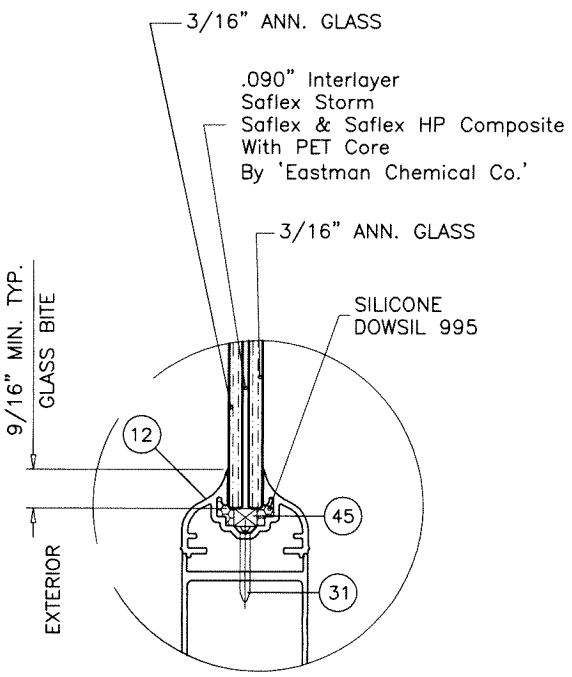
DESIGN LOADS SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'.

MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION
 IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE.
 LABELING TO COMPLY WITH SECTION 1709.9.2.

'CONTINENTAL MULTI-FOLD' OUTFOLDING DOOR (L.M.I.)

AIR MASTER
 windows and doors

P.O. Box 2097 Barceloneta, P.R. 00617,
 TEL. (787) 623-1800, FAX. (787) 623-0087

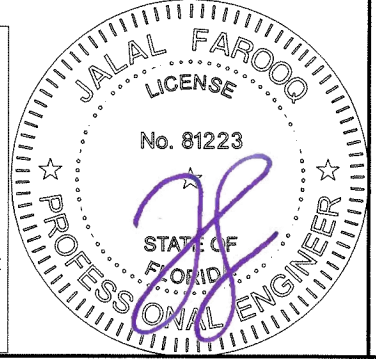


GLAZING DETAIL
 7/16" OVERALL LAM. GLASS

Sealed: 10/23/2023

FL #22991

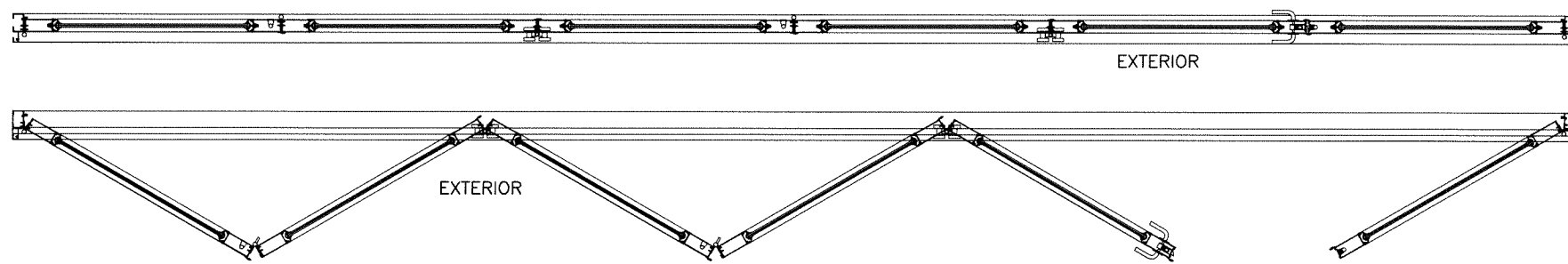
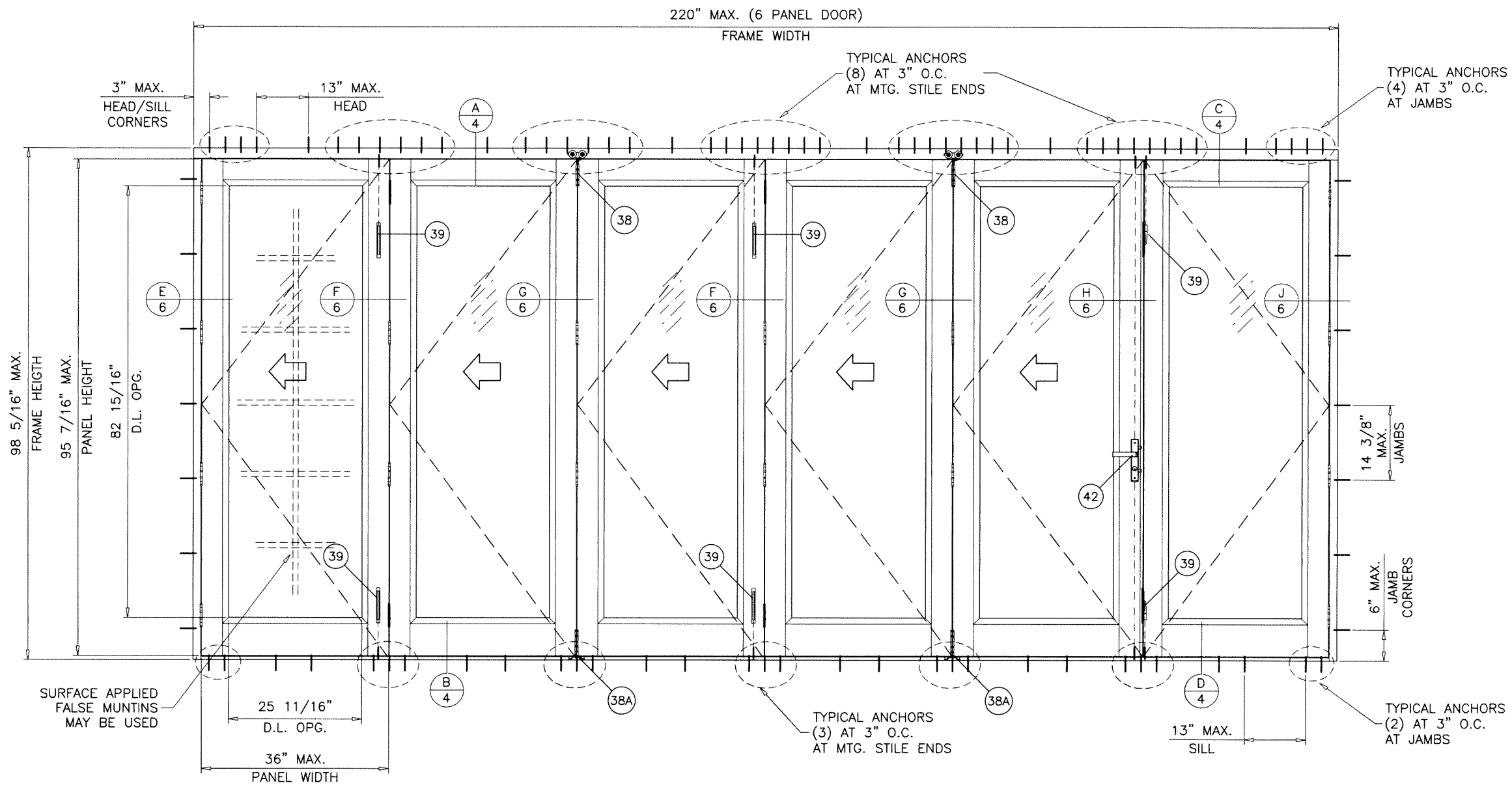
- A- CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT.
- B- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
- C- SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D. ENGINEER OF RECORD, ACTING AS A DELEGATED ENGINEER TO THE P.E.D. ENGINEER SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.
- D- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.



no	date	by	description
A	10.06.23		UPDATED TO 2023 FBC

date:	07-20-17
scale:	3/8" = 1"
dr. by:	TARIQ
chk. by:	

drawing no.	W17-68
sheet	1 of 9



TYPICAL ELEVATION (6 PANELS TESTED CONFIGURATION)
BI-FOLD DOOR WITH OUT-SWING LEAFS

SIX PANEL DOOR CONFIGURATION WITH FOLDING AND SWING PANELS SHOWN.
DOOR MAY HAVE 3 TO 8 PANELS AS SHOWN ON SHEET 3
USING THE STILE CONFIGURATIONS SHOWN HEREIN.

MAXIMUM DESIGN LOAD RATING = + 75.0 PSF
(FOR LEAF SIZE SHOWN OR SMALLER) - 75.0 PSF
AS PERMITTED BY FBC REQUIREMENTS

NOTE:
VERIFY COMPLIANCE WITH EGRESS LIMITATIONS WHERE REQUIRED.

PANEL SIZE:

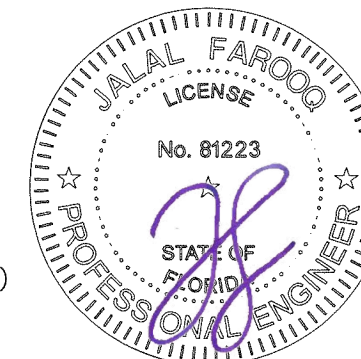
NOM. PANEL WIDTH = (DOOR FRAME WIDTH - 4.0")/6
PANEL HEIGHT = DOOR FRAME HEIGHT - 2.875"

DAYLITE OPENINGS:

DLO WIDTH = NOM. PANEL WIDTH - 10.3125"
DLO HEIGHT = PANEL HEIGHT - 12.50"

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NOTE:
GLASS CAPACITIES ARE
BASED ON ASTM E1300-09 (3 SEC. GUSTS)
AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCA05-DEC-219



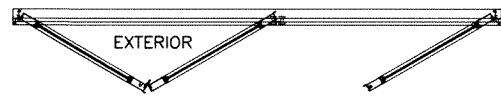
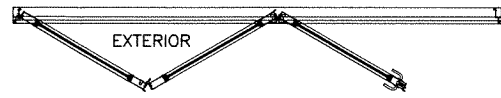
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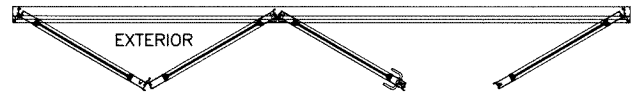
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date: 07-20-17	scale: 1/2"=1'-0"	dr. by: TARIQ	chk. by:
drawing no. W17-68			
sheet 2 of 9			



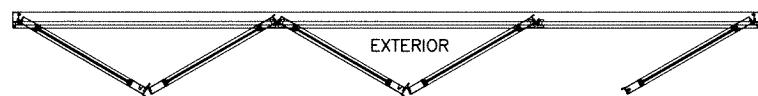
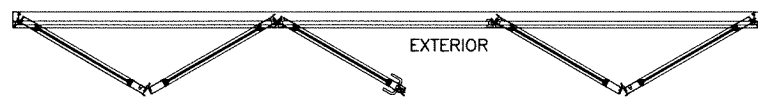
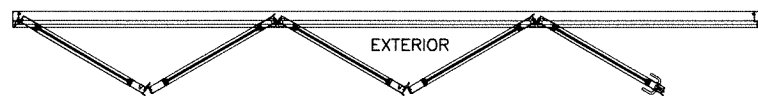
APPROVED CONFIGURATIONS

THREE (3) PANELS



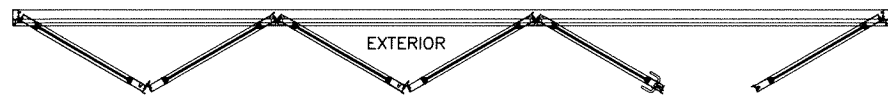
APPROVED CONFIGURATIONS

FOUR (4) PANELS



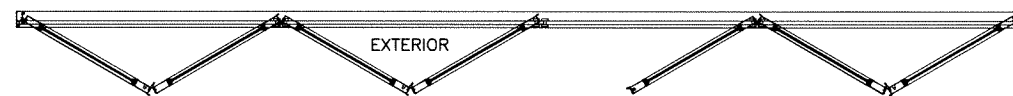
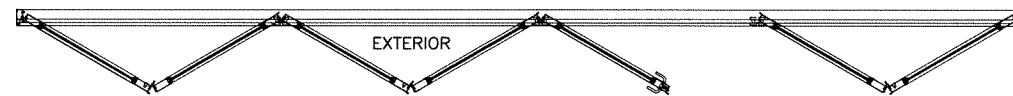
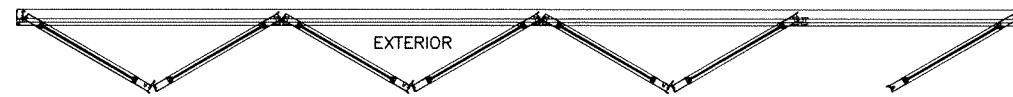
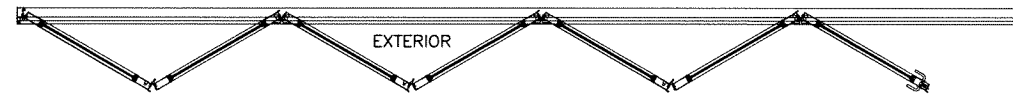
APPROVED CONFIGURATIONS

FIVE (5) PANELS



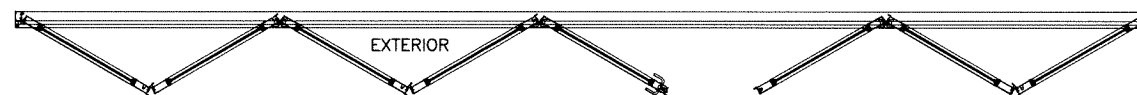
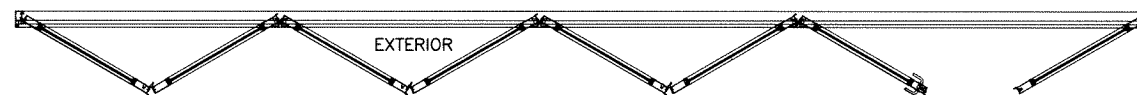
APPROVED CONFIGURATIONS

SIX (6) PANELS



APPROVED CONFIGURATIONS

SEVEN (7) PANELS



APPROVED CONFIGURATIONS

EIGHT (8) PANELS

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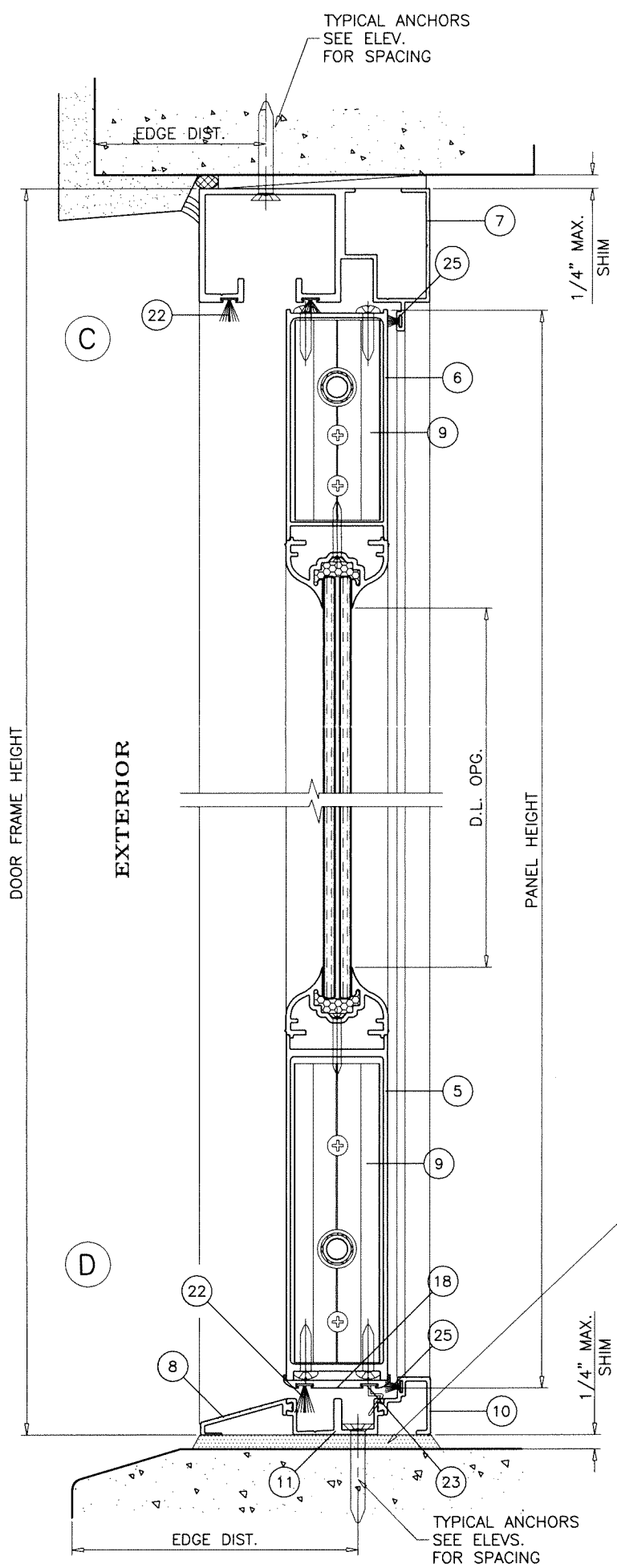
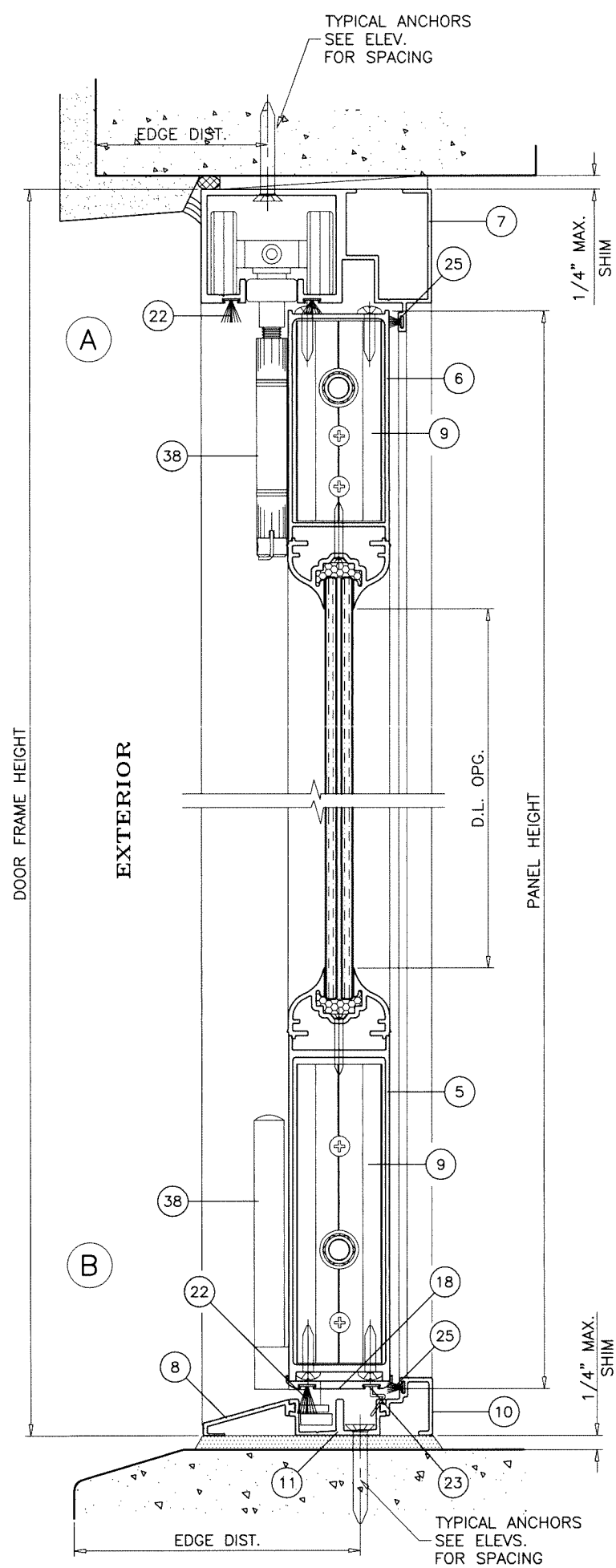
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AIR MASTER
 windows and doors
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revisions:	no	date	by	description

date: 07-20-17
 scale: -
 dr. by: TARIQ
 chk. by:

drawing no.
W17-68
 sheet 3 of 9



POURED & HARDENED
HIGH STRENGTH GROUT
f'c = 5000 PSI MIN.
NOT BY 'AIR MASTER'
MUST TRANSFER SHEAR
LOADS TO STRUCTURE

LOAD BEARING
(SOLID SHIMS
OPTIONAL TO GROUT)

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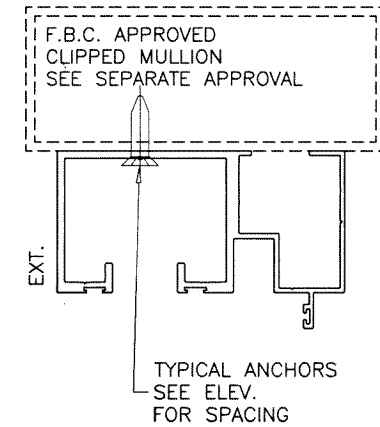
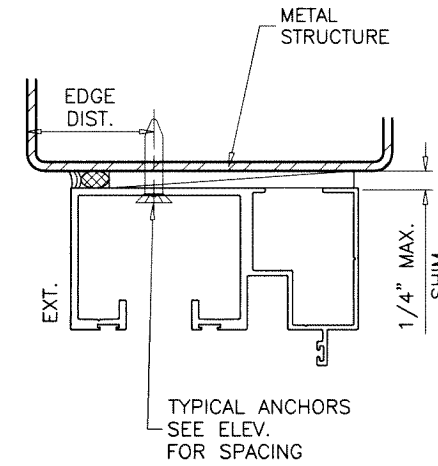
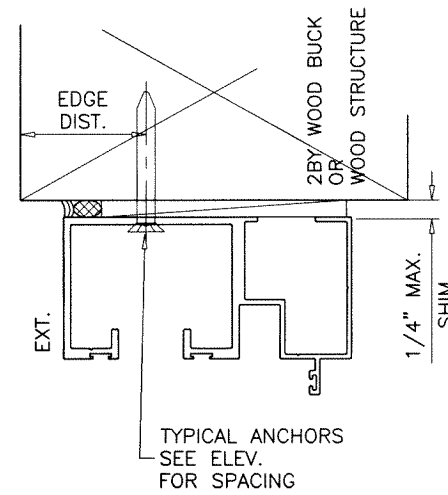
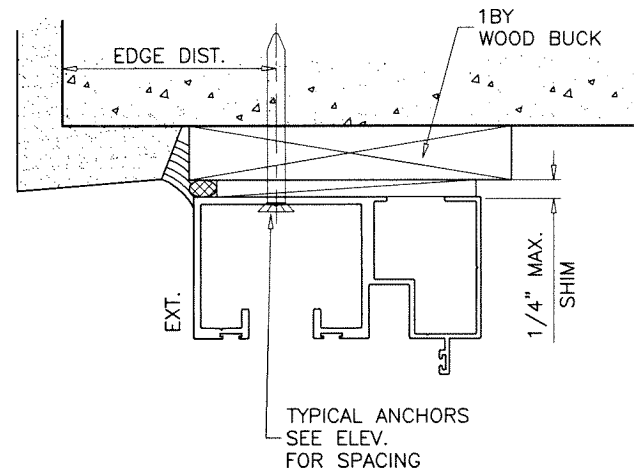
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W17-68

sheet 4 of 9



1BY OR 2BY WOOD BUCKS AND METAL STRUCTURE NOT BY 'AIR MASTER' MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
 1-1/2" MIN. PENETRATION INTO WOOD (HEAD/SILL/JAMBS)
 THRU 1BY BUCKS INTO CONC. OR BLOCKS
 1-1/2" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
 1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)

DIRECTLY INTO CONCRETE OR BLOCKS
 1-1/2" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
 1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)

1/4" DIA. TEKS OR SELF-DRILLING SCREWS (GRADE 5 CRS)
 INTO F.B.C. APPROVED MULLIONS
 AND
 INTO METAL STRUCTURES (HEAD/SILL/JAMBS)
 (3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
 ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
 STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

CRITICAL EDGE DISTANCE

INTO CONCRETE AND BLOCKS = 2-1/2" MIN.
 INTO WOOD STRUCTURE = 1" MIN.
 INTO METAL STRUCTURE = 3/4" MIN.

WOOD AT HEAD, SILL OR JAMBS SG = 0.55 MIN.
 CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.
 C-90 HOLLOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.

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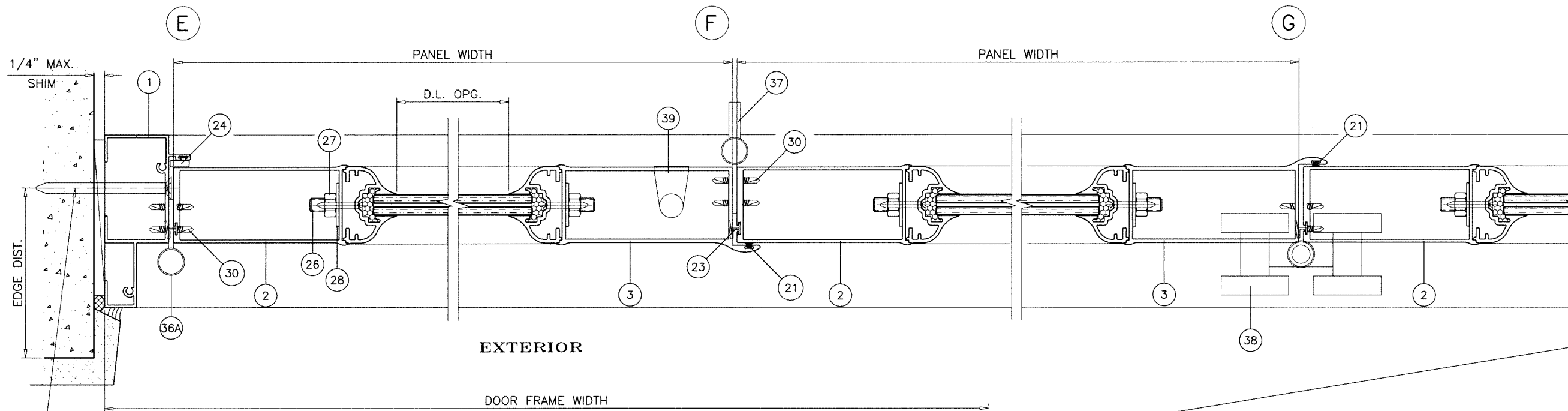
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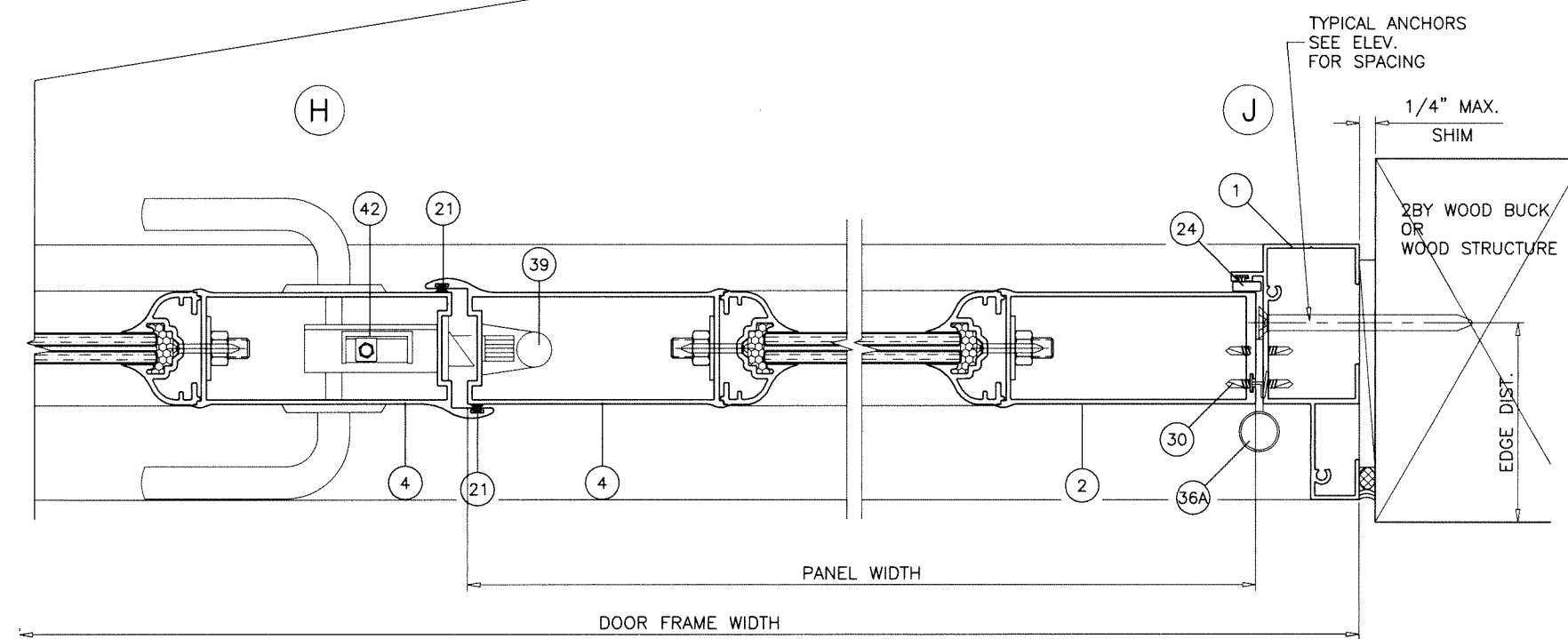
drawing no.
W17-68
 sheet 5 of 9



TYPICAL ANCHORS
SEE ELEV.
FOR SPACING

EXTERIOR

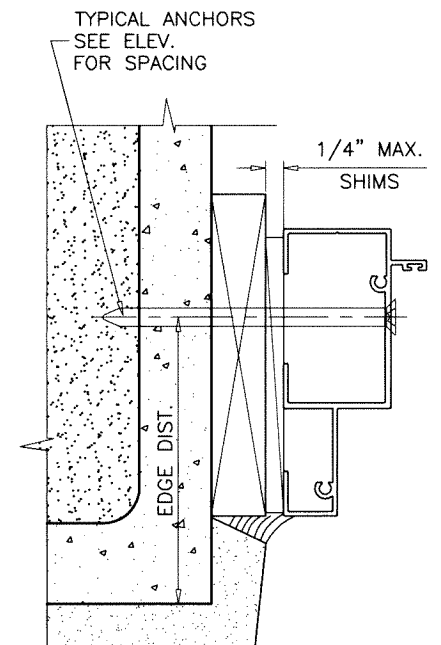
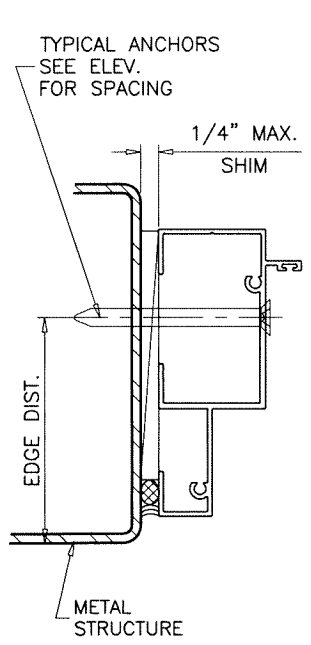
DOOR FRAME WIDTH



TYPICAL ANCHORS
SEE ELEV.
FOR SPACING

1/4" MAX.
SHIM

2BY WOOD BUCK
OR
WOOD STRUCTURE



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dr. by:	TARIQ	chk. by:		
drawing no.	W17-68			
sheet	6 of 9			

ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	77314	2	FRAME JAMB	6063-T5	-
2	77315	AS REQD.	DOOR STILE	6063-T5	-
3	77320	AS REQD.	ASTRAGAL STILE	6063-T5	-
4	77525	1	ASTRAGAL STILE (LOCK)	6063-T5	-
5	76702	AS REQD.	BOTTOM RAIL	6063-T5	-
6	77554	AS REQD.	TOP RAIL	6063-T5	-
7	77310	AS REQD.	TOP TRACK	6063-T5	-
8	77317	AS REQD.	BOTTOM TRACK ADAPTER (EXTERIOR)	6063-T5	-
9	11081	AS REQD.	CORNER LOCK	6063-T5	-
10	77319	AS REQD.	BOTTOM TRACK ADAPTER (INTERIOR)	6063-T5	-
11	77318	AS REQD.	BOTTOM TRACK	6063-T5	-
12	13038	AS REQD.	GLASS ADAPTER	6063-T5	-
17	11080	AS REQD.	BOLT GUIDE	6063-T5	-
18	13020	AS REQD.	W'STRIP ADAPTER	6063-T5	-
21	96823	AS REQD.	PILE W'STRIPPING (.187" X .170")	WOOL	ULTRAFAB
22	96824	AS REQD.	PILE W'STRIPPING) .270" X .50"	WOOL	ULTRAFAB
23	96981	AS REQD.	LEAF W'STRIPPING (QEZ 447-2)	VINYL	SCHLEGEL
24	96980	AS REQD.	BULB W'STRIPPING	VINYL	MSW
25	22438	AS REQD.	W'STRIPPING (1830)	WOOL	ULTRAFAB
26	76657	AS REQD.	3/8" DIA. THREADED ROD	ST. STEEL	-
27	95612	AS REQD.	3/8" HEX NUT	ST. STEEL	-
28	95492	AS REQD.	FLAT WASHER	ST. STEEL	-
29	95493	AS REQD.	PRESSURE WASHER	ST. STEEL	-
30	95691	AS REQD.	HING INSTALLATION FASTENERS	ST. STEEL	10-24 X 5/8" FH SELF DRILLING
31	-	AS REQD.	GLASS ADAPTER FASTENERS, AT 3' FROM ENDS & 9" O.C.	ST. STEEL	#8 X 1-1/4" FH SELF DRILLING
32	-	AS REQD.	ASSEMBLY FASTENERS	ST. STEEL	#12 X 3/4" PH SELF DRILLING
33	-	2/ CORNER	FRAME ASSEMBLY FASTENERS	ST. STEEL	#10 X 1-1/4" FH SELF DRILLING
35	-	AS REQD.	CORNER BLOCK FASTENERS	ST. STEEL	10-32 X 3/4" FH SELF DRILLING
36	76571	AS REQD.	HINGES	ST. STEEL	CENTOR
36A	76565	AS REQD.	BUTT HINGES (4X4)	ST. STEEL	SAL'S HARDWARE
37	76568	AS REQD.	HINGE HANDLE SET	ST. STEEL	CENTOR
38, 38A	76569	AS REQD.	INTERMEDIATE CARRIER SET	ST. STEEL	CENTOR
39	76523	AS REQD.	FLUSH BOLTS	-	-
42	34501K	1	MULTI POINT LOCK	-	ATZ
45	96900	2/ LITE	SETTING BLOCKS AT 1/4 POINTS (1/4" X 1/4" X 1" LONG)	EPDM	DUROMETER 80±5 SHORE A

SEALANTS:

ALL FRAME AND PANEL JOINTS AND SEAMS SEALED WITH PACIFIC GLOBAL SILICONE SEALANT.

Hardware				
Quantity	Description	Distance	Location	Method of attachment
2 sets	Centor E3CICSS Intermediate Carrier Set with product marking Centor	2-1/2" from both top and bottom to hinge center	Attached between panels 2 and 3, 4 and 5 on active side from left to right	(7) of #10-32 x 3/4" Phi F/H S/S Teck Screws
2 sets	Centor E3HSS Hinge set with Handle with product marking Centor	4-3/8" from both top and bottom to hinge center and the handle 34-1/8" from bottom to hinge center	Attached between panels 1 and 2, 3 and 4 on active side from left to right	(7) of #10-32 x 3/4" Phi F/H S/S Teck screws
4	Centor E3HNHS Single Straight with product marking Centor	34-1/8" from top to hinge center	Attached between every two panels on active side two panels on active side	(7) of #10-32 x 3/4" Phi F/H S/S Teck screws
8	4" S/S Butt Hinges	2-1/2" from both top and bottom to hinge center and two at 32-7/8" from top and bottom to hinge center	Attached between panel 1 and left frame jamb on active side and on right side of the inactive panel	(8) of #10-32 x 3/4" Phi F/H S/S Teck screws
6	1/8" backset manually operated Flush Bolt Satin Nickel	11-7/8" from the bottom to flush bolt center, and 20-3/4" from top to flush bolt center	From left to right on the active side, on the right side of panels 1 and 3 and on left side of inactive panel	(2) of #8 x 1/2" Phi F/H S/S screws
1	Multipoint lock system with cylinder, lock handles and strikeplate	40" from bottom to cylinder center	On the right side of panel 5, active side	(2) #10x 24 x 5/8" Phi F/H S/S screws

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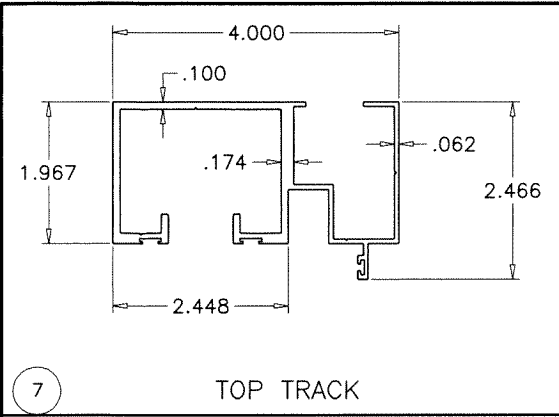
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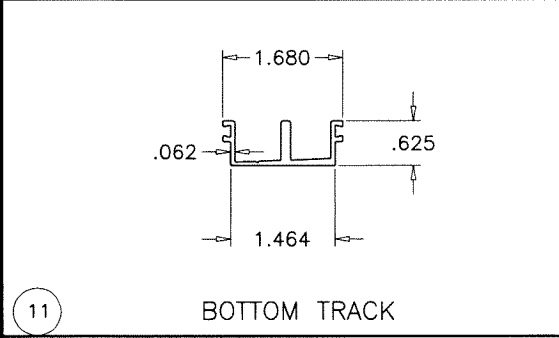


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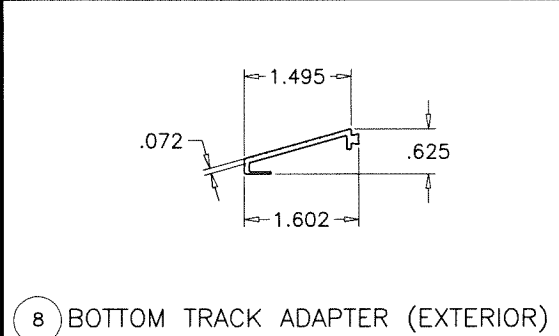
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dr. by:	TARIQ	chk. by:		
drawing no.	W17-68			
sheet	7 of 9			



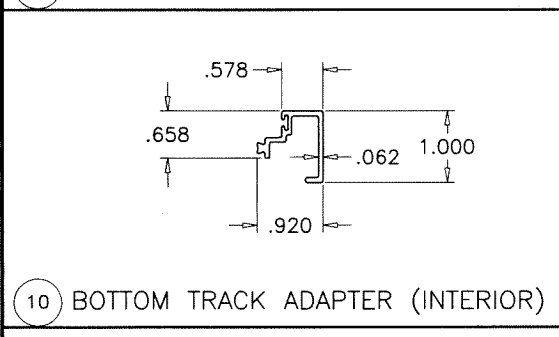
7 TOP TRACK



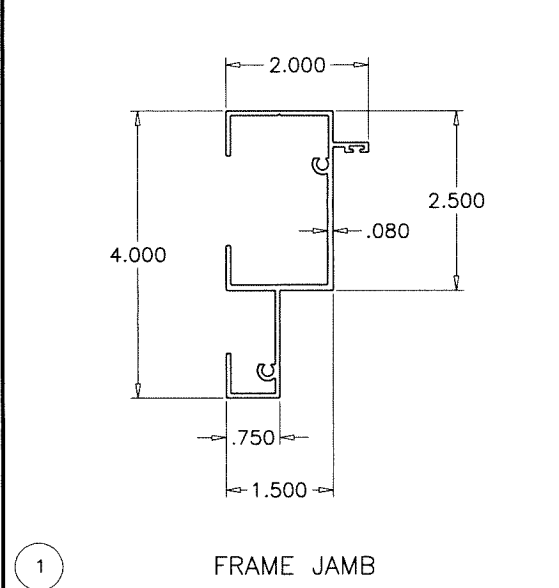
11 BOTTOM TRACK



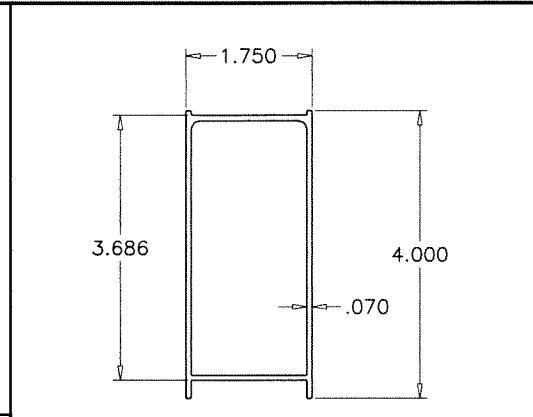
8 BOTTOM TRACK ADAPTER (EXTERIOR)



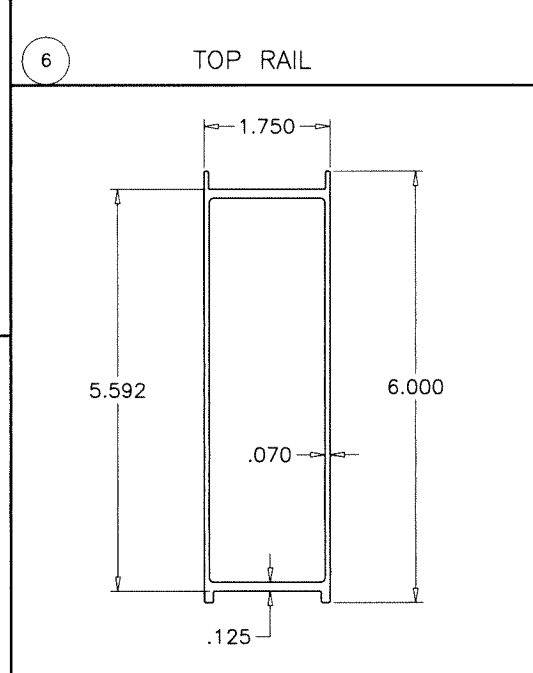
10 BOTTOM TRACK ADAPTER (INTERIOR)



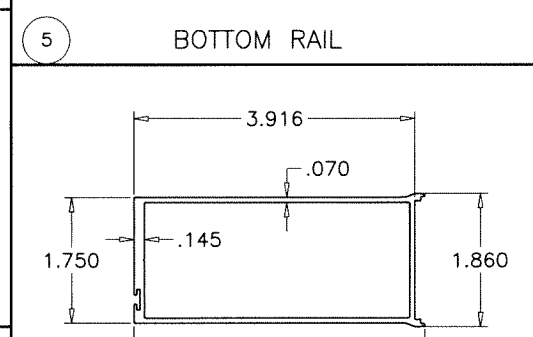
1 FRAME JAMB



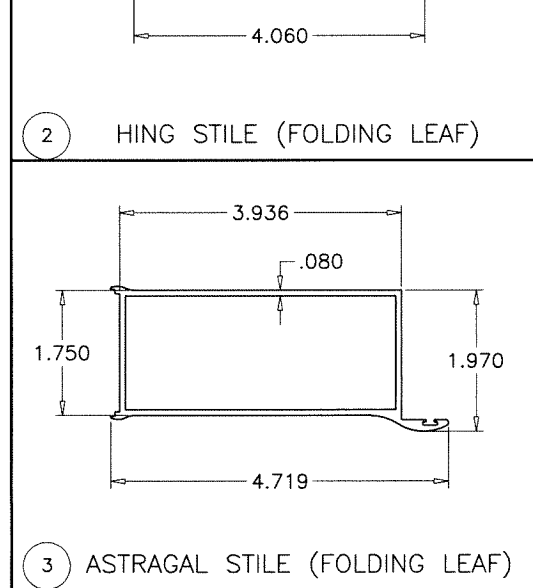
6 TOP RAIL



5 BOTTOM RAIL



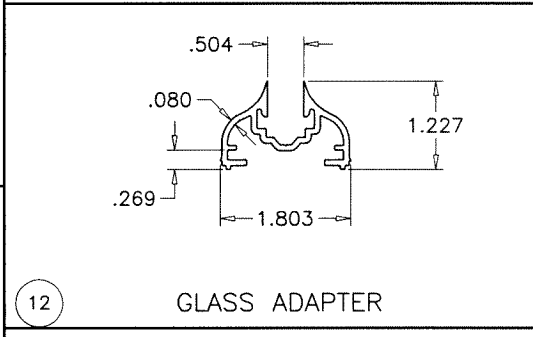
2 HING STILE (FOLDING LEAF)



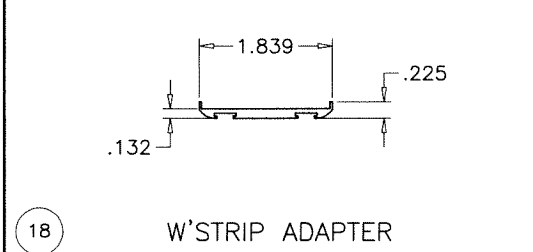
3 ASTRAGAL STILE (FOLDING LEAF)



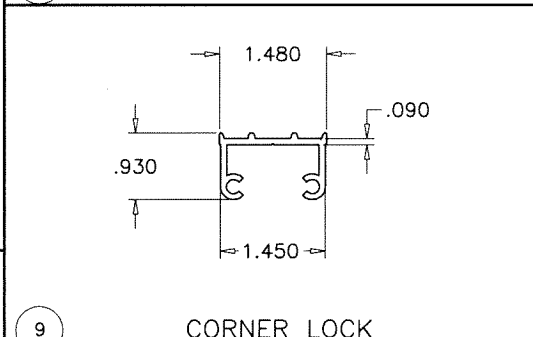
4 ASTRAGAL STILE (OUTSWING LEAF)



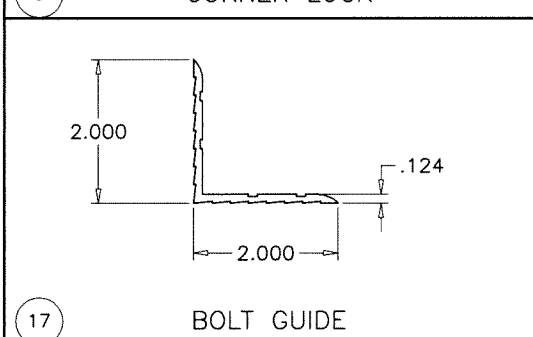
12 GLASS ADAPTER



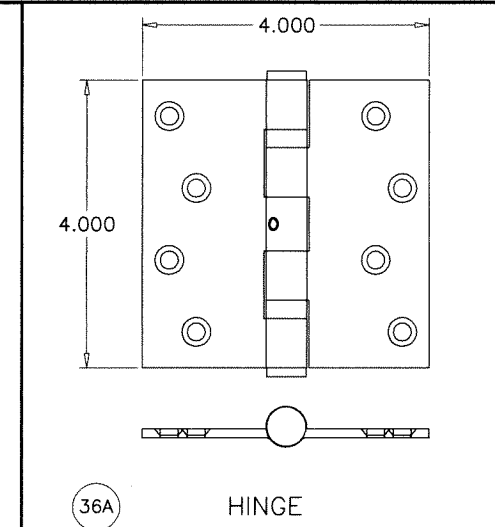
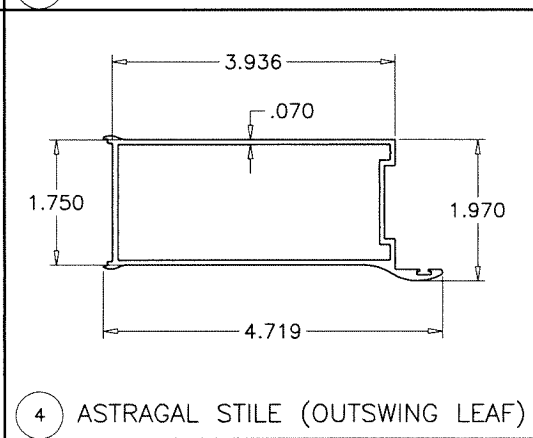
18 W'STRIP ADAPTER



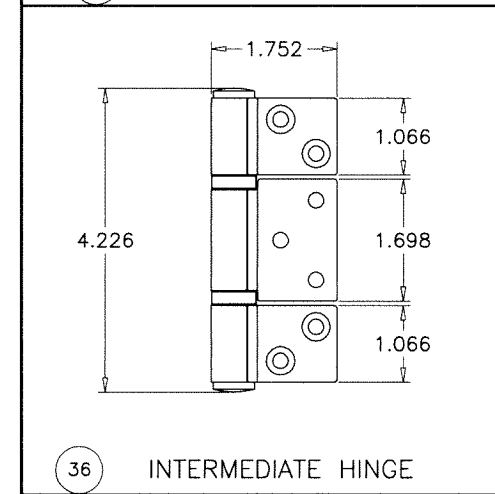
9 CORNER LOCK



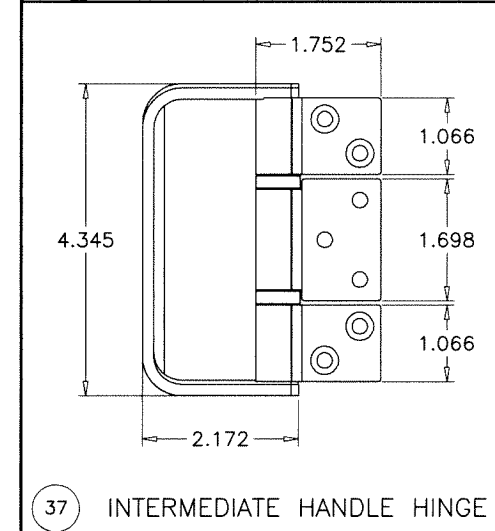
17 BOLT GUIDE



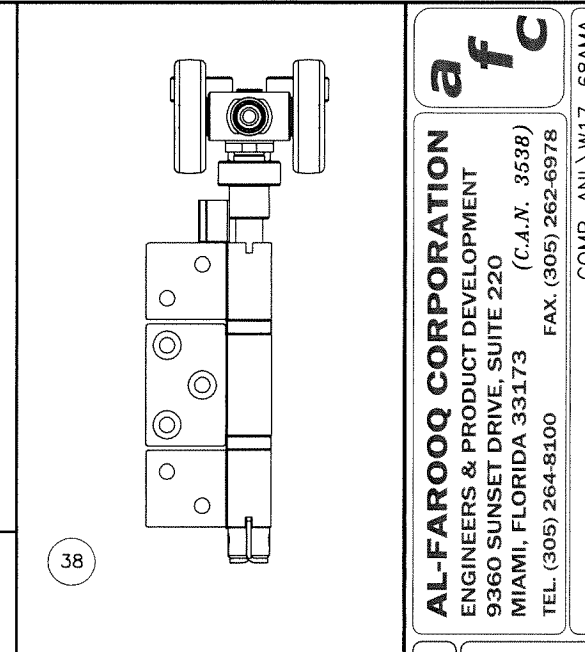
36A HINGE



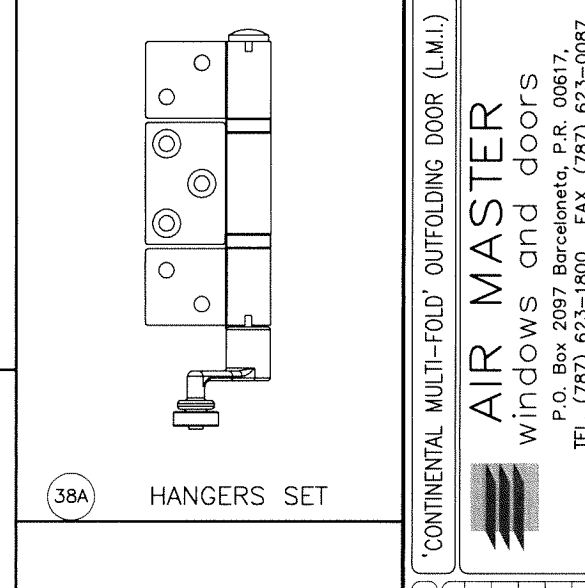
36 INTERMEDIATE HINGE



37 INTERMEDIATE HANDLE HINGE



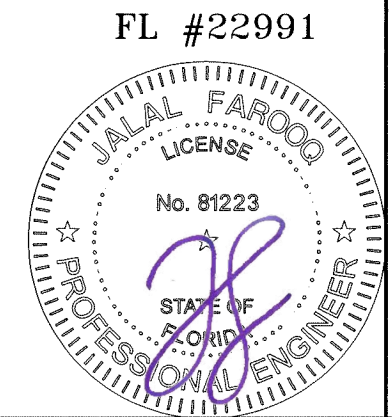
38



38A

HANGERS SET

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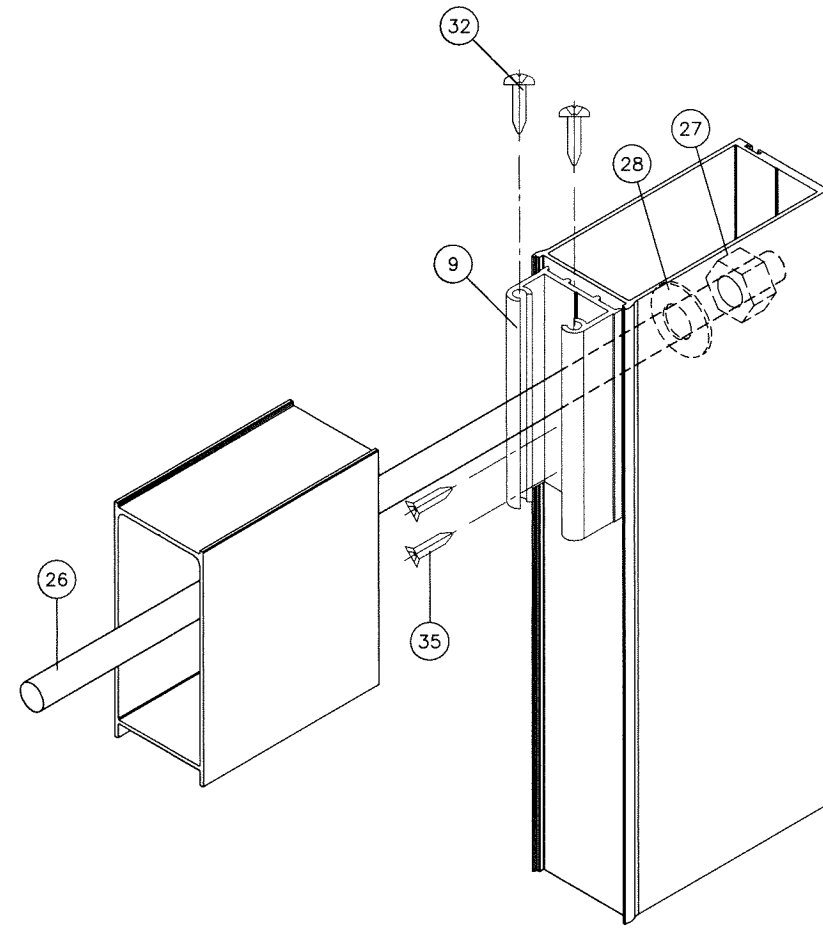


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AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
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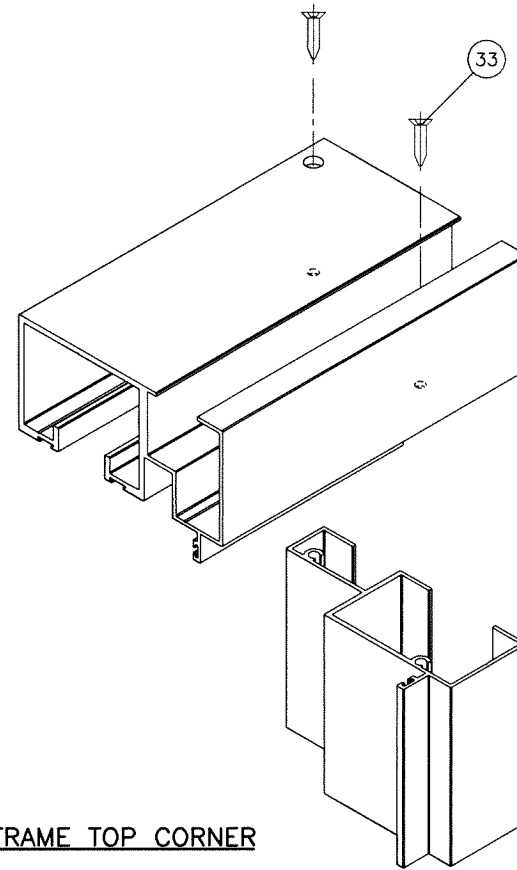
'CONTINENTAL MULTI-FOLD' OUTFOLDING DOOR (L.M.I.)
AIR MASTER
 windows and doors
 P.O. Box 2097 Barceloneta, P.R. 00617,
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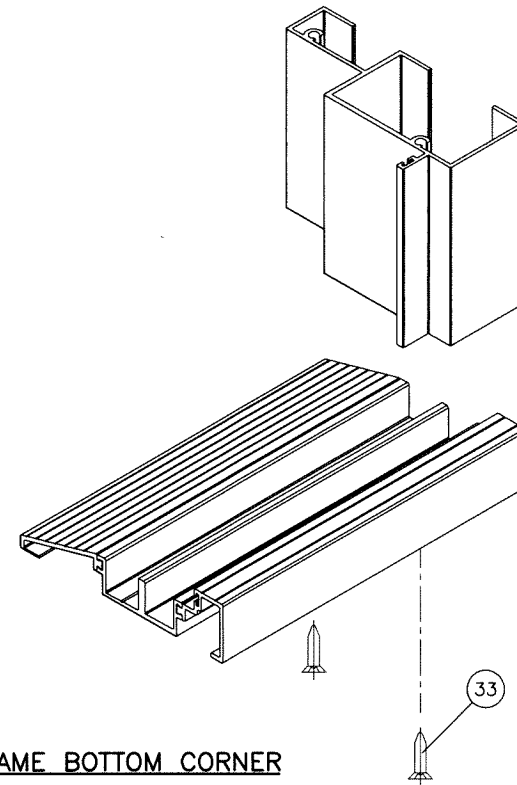
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 chk. by:
 drawing no.
W17-68
 sheet 8 of 9



PANEL CORNER TOP & BOTTOM



FRAME TOP CORNER



FRAME BOTTOM CORNER

Sealed: 10/23/2023



FL #22991

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date: 07-20-17	scale: 3/8" = 1"	dr. by: TARIQ	chk. by:
drawing no. W17-68			
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