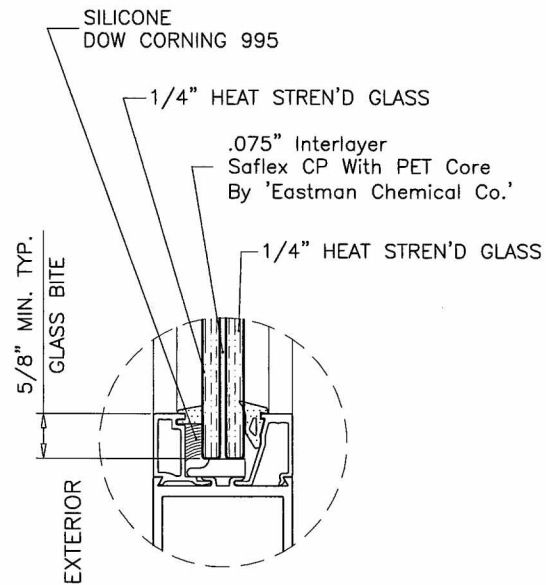


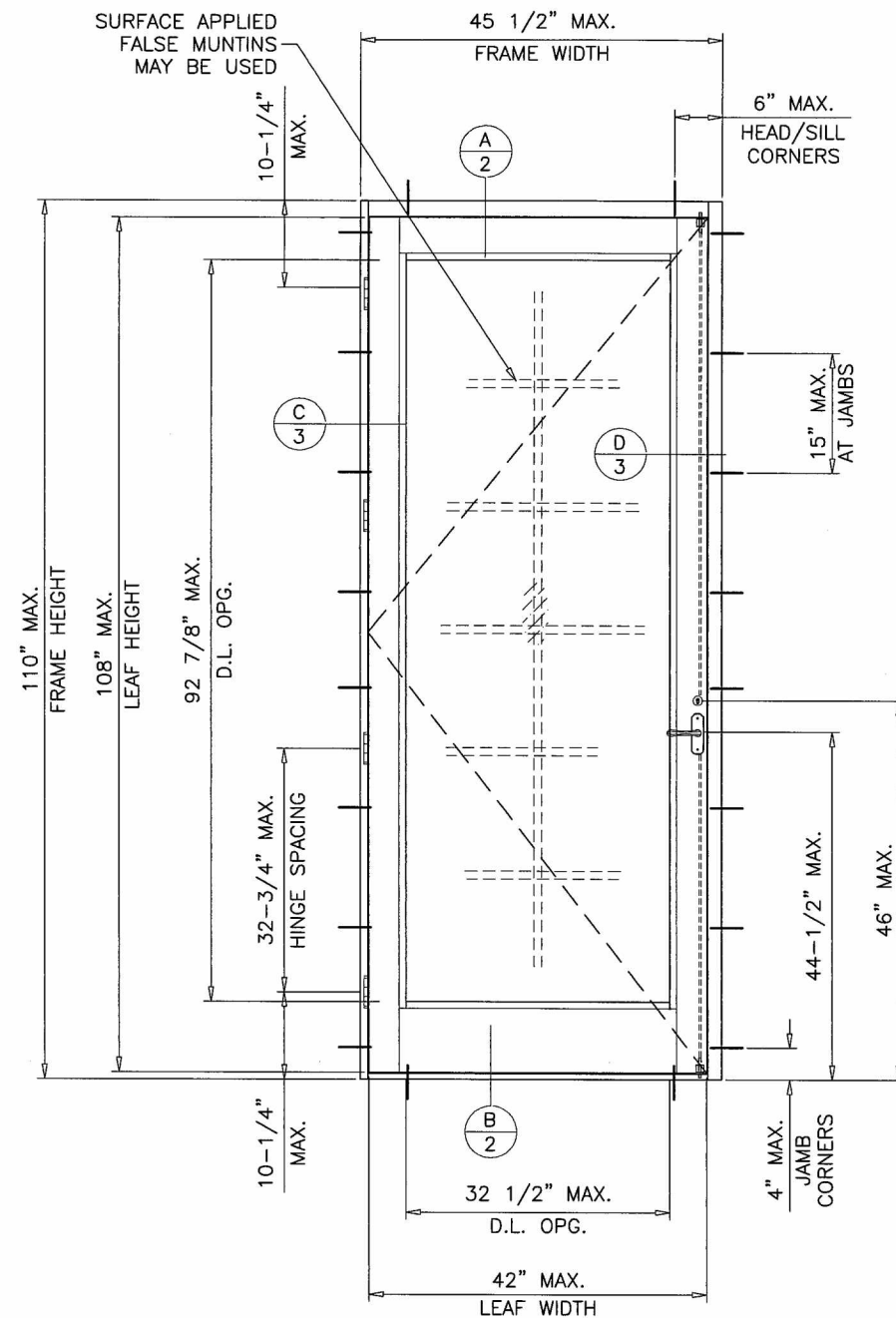
BALCONY DOOR CAN BE USED WITH TRANSOM AND SIDELITES.
FOR LIMITATIONS SEE SEPARATE F.B.C. APPROVAL.



GLAZING DETAIL

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

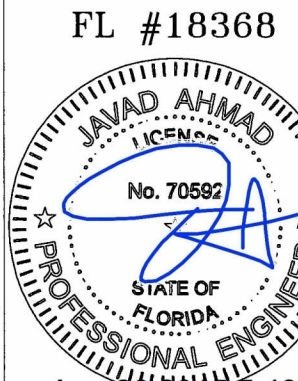
**LAMINATED GLASS
LARGE MISSILE IMPACT**



(X)
TYPICAL ELEVATION

MAXIMUM DESIGN LOAD RATING = + 100.0 PSF
(FOR SIZES SHOWN ABOVE OR SMALLER) - 100.0 PSF
AS PERMITTED BY FBC

A- THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; i.e. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.E.D.
B- 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.
C- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
D- 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.
E- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.



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ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL W15-48DD

Series 'BAL-350' Aluminum Out-Swing Door (L.M.I.)
US Aluminum
Division Of C.R. Laurence Co., Inc.
7500 N.W. 69TH AVE.
MIAMI, FL 33166
TEL. (305) 888-0077 FAX. (305) 884-3111

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

**SERIES BAL-350
ALUMINUM OUT-SWING ENTRANCE DOOR**

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS, ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

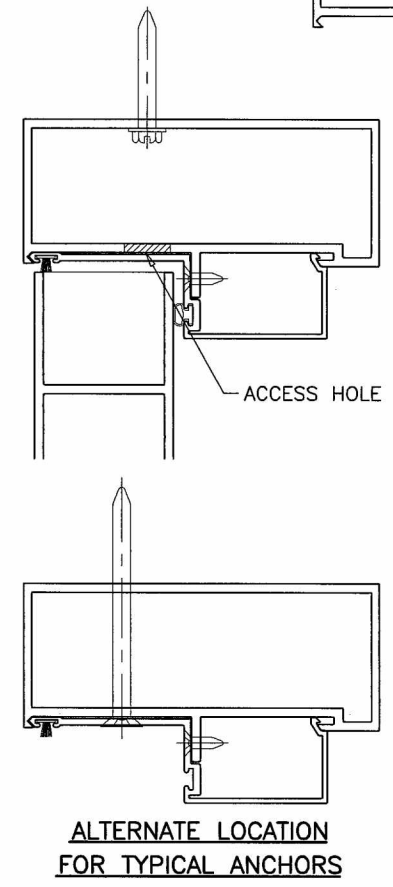
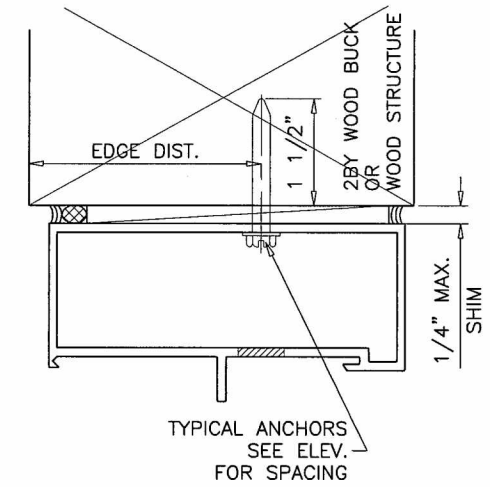
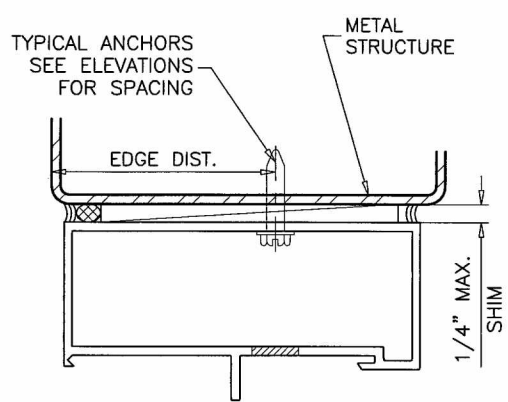
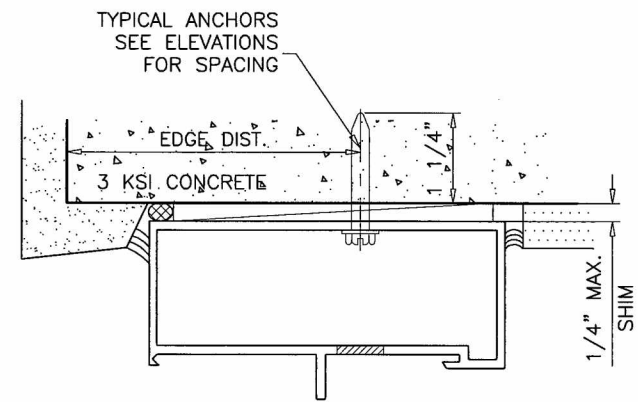
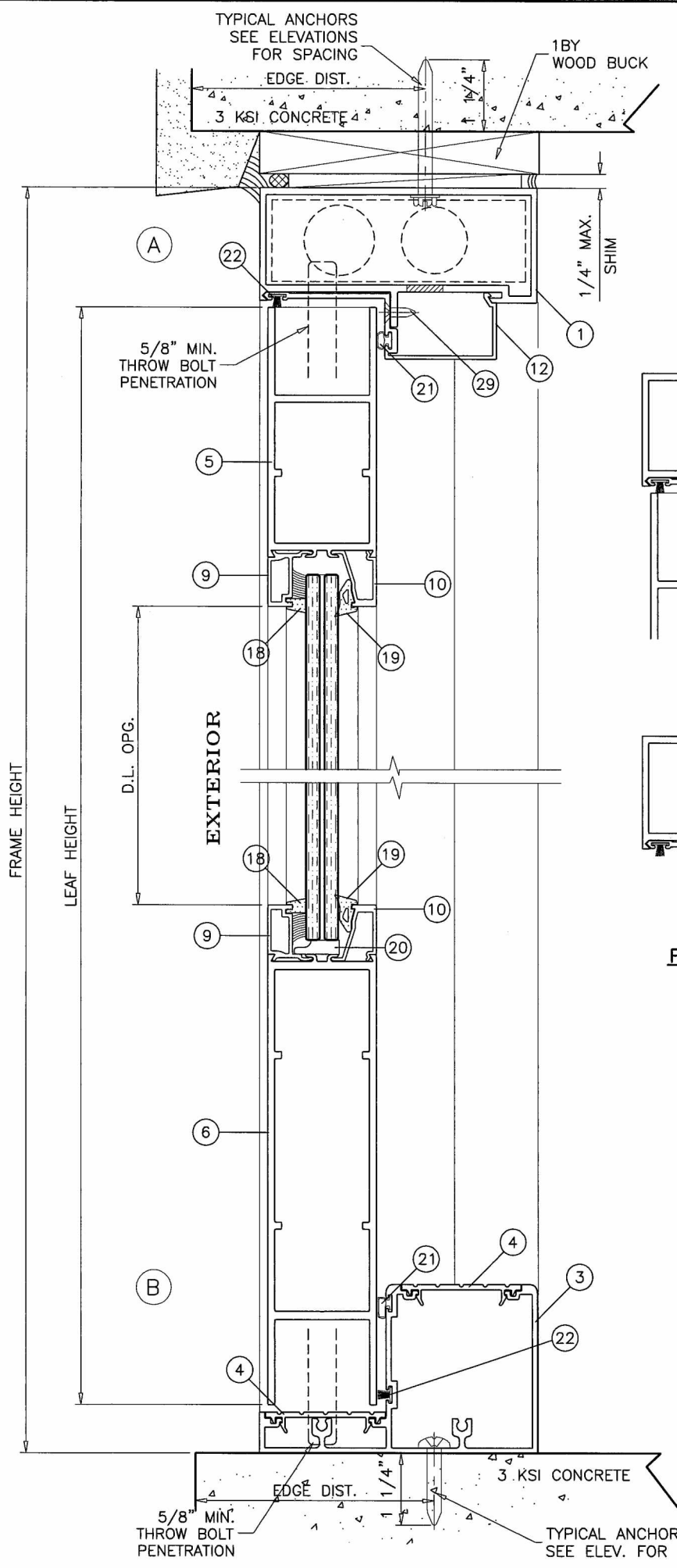
ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE.

MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION IN ACCORDANCE WITH SECTION 1710.8.3 OF FLORIDA BUILDING CODE. LABELING TO COMPLY WITH SECTION 1710.8.2.

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drawing no.	W15-48		
sheet	1 of 5		

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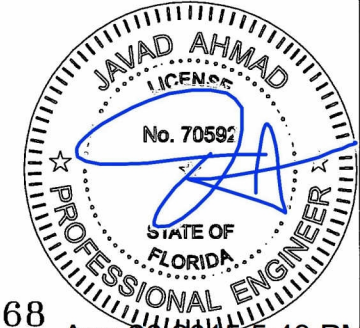


WOOD BUCKS AND METAL STRUCTURES NOT BY US ALUMINUM MUST SUPPORT LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING
1/4" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
 1-1/2" MIN. PENETRATION INTO WOOD (HEAD/JAMBS)
 THRU 1BY BUCKS INTO CONC. OR MASONRY
 1-1/4" MIN. EMBED INTO CONCRETE (HEAD)
 1-1/4" MIN. EMBED INTO CONC. OR MASONRY (JAMBS)
 DIRECTLY INTO CONC. OR MASONRY
 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL)
 1-1/4" MIN. EMBED INTO CONC. OR MASONRY (JAMBS)
#14 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)
 INTO F.B.C. APPROVED MULLIONS (MIN. THK. = 1/8")
 INTO METAL STRUCTURES
 STEEL : 1/8" THK. MIN. (Fy = 36 KSI MIN.)
 ALUMINUM : 1/8" THK. MIN. (6063-T5 MIN.)
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)
TYPICAL EDGE DISTANCE
 INTO CONCRETE AND MASONRY = 2-1/2" MIN.
 INTO WOOD STRUCTURE = 1" MIN.
 INTO METAL STRUCTURE = 3/4" MIN.
 WOOD AT HEAD 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.

SEALANTS:
 FRAME CORNERS, ASSEMBLY SCREWS AND HEADS OF ANCHOR SCREWS AT SILL TO BE SEALED WITH SEALER. LEAF JOINTS SEALED WITH SILICONE.

LOCK:
 THREE POINT LOCK SYSTEM WITH SURFACE MOUNT HANDLE AT 44-1/2" FROM BOTTOM.
 DEAD BOLT LOCK KEY OPERATED ON EXTERIOR AND THUMBTURN ON INTERIOR, AT 46" FROM BOTTOM.



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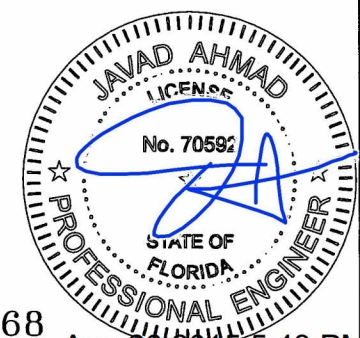
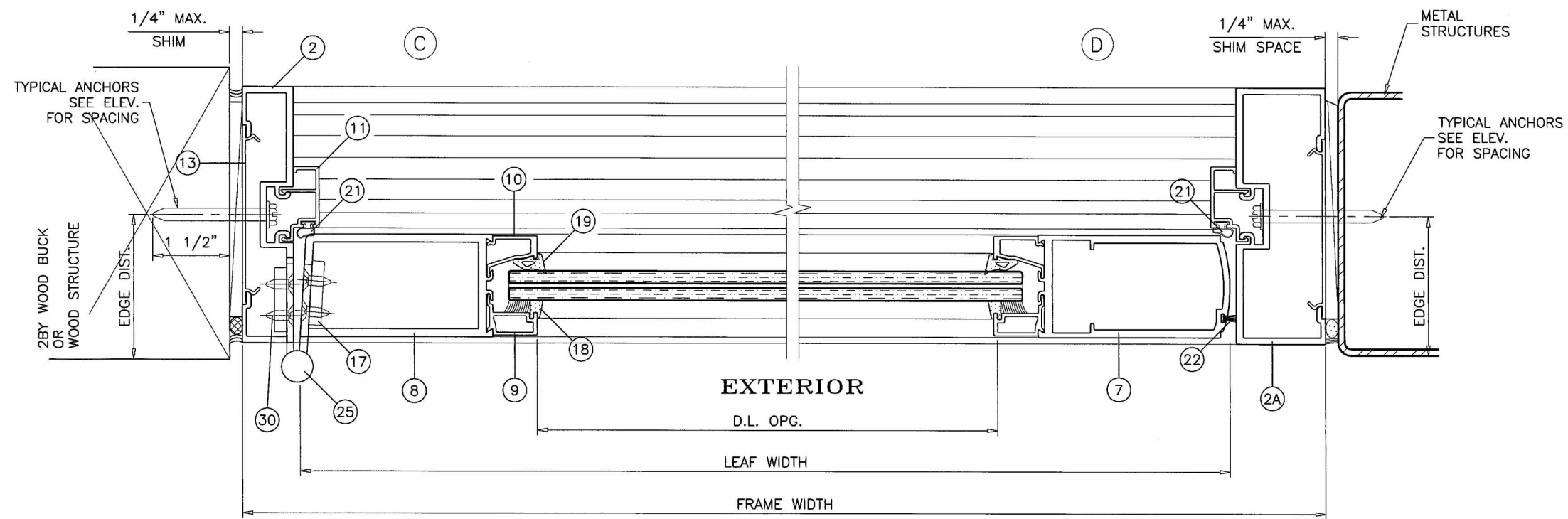
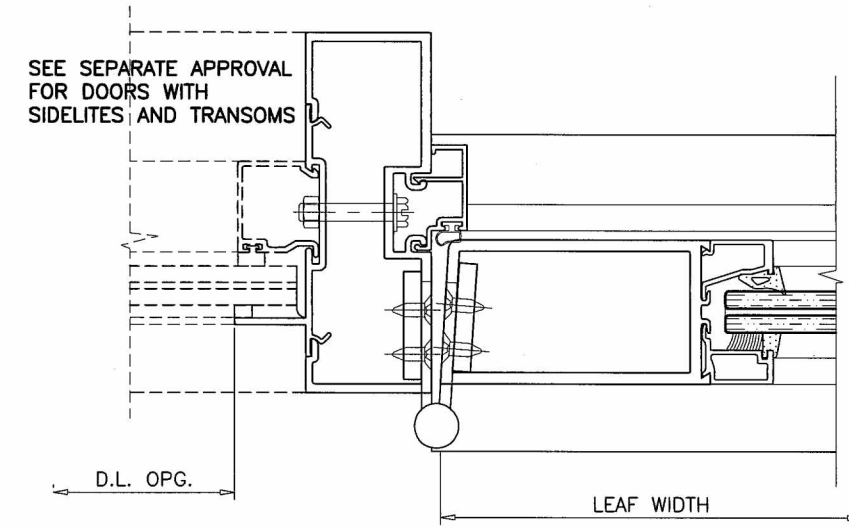
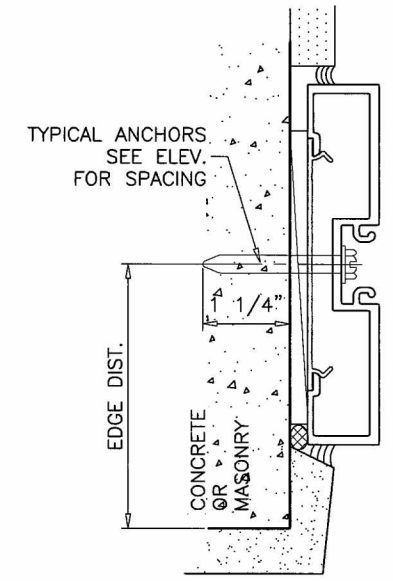
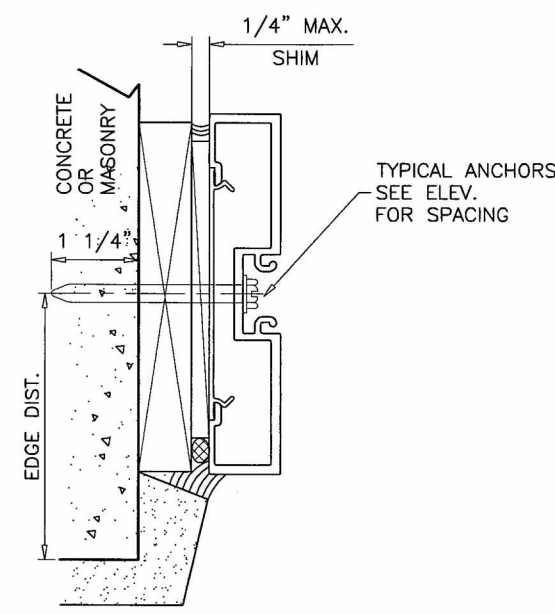
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 chk. by:

drawing no.
W15-48

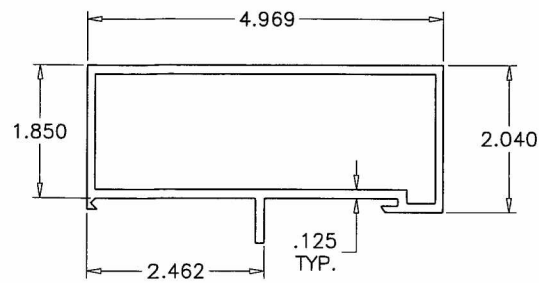
sheet 2 of 5

ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	DLD-105	1	FRAME HEAD	6063-T6	-
2	DLD-119	2	FRAME JAMB	6063-T6	-
2A	DLD-124	2	ALT. FRAME JAMB	6063-T6	-
3	DLD-122	1	FRAME SILL	6063-T6	-
4	DLD-123	1	SILL FILLER	6063-T6	-
5	DLD-107M	1/ LEAF	TOP RAIL	6063-T6	-
6	DLD-110M	1/ LEAF	BOTTOM RAIL	6063-T6	-
7	DLD-115	1/ LEAF	LOCK STILE	6063-T6	-
8	DLD-114	1/ LEAF	HINGE STILE	6063-T6	-
9	DLD-108M	4/ LEAF	EXTERIOR GLASS STOP	6063-T6	-
10	DLD-109M	4/ LEAF	INTERIOR GLASS STOP	6063-T6	-
11	BCE-460	2/ DOOR	DOOR STOP JAMB	6063-T6	-
12	DLD-106	1/ DOOR	DOOR STOP HEAD	6063-T6	-
13	BCE-475	AS REQD.	FLAT FILLER, 2-1/2" LONG	6063-T6	AT ANCHOR LOCATIONS
15	-	-	SHEAR BLOCK, 4-11/16" LONG	ALUMINUM	-
16	DLD-3	-	SHEAR CLIP	6063-T5	-
17	-	-	HINGE REINFORCING PLATE	ALUMINUM	1-1/4" X 1/4" X 8" LONG
18	TR-5399S	-	EXTERIOR GASKET	SILICONE	-
19	TR-3235E	-	INTERIOR GASKET	EPDM	-
20	-	2/ LITE	SETTING BLOCKS AT 1/4 POINTS	EPDM	DUROMETER 80±5 SHORE A
21	E236	AS REQD.	BULB W'STRIPPING POLYPROPYLENE BASE, TPE BULB	-	ULTRAFAB BASE DURO 90, BULB DURO 73
22	T4216-K	AS REQD.	PILE W'STRIPPING	-	-
24	1350	-	SETTING BLOCK	-	-
25	-	4/ LEAF	BUTT HINGES (4-1/2" X 4")	-	HAGER USA
26	#12 X 1-1/4"	AS REQD.	FRAME ASSEMBLY SCREWS	-	P.H. SMS
27	#12 X 1-1/4"	AS REQD.	FRAME ASSEMBLY SCREWS	-	F.H. SMS
28	1/4-20 X 5/8"	AS REQD.	FRAME ASSEMBLY SCREWS	-	H.H. MACHINE SCREWS
29	10-24 X 1/2"	4/ LEAF	DOOR STOP SCREWS	-	F.H. MACHINE SCREWS
30	12-24 X 1/2"	4/ HASP	HINGE INSTALLATION SCREWS	-	F.H. MACHINE SCREWS

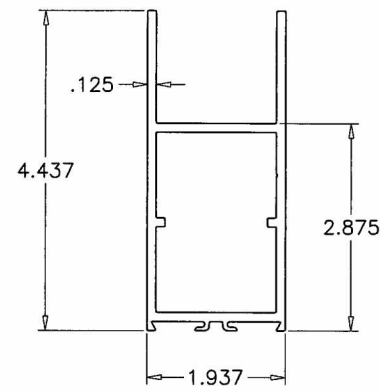


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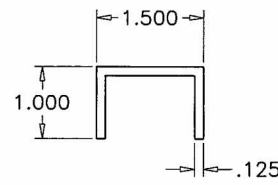
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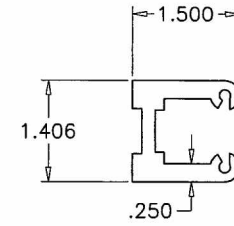
1 FRAME HEAD



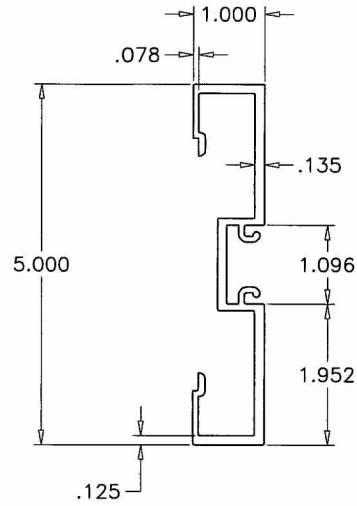
5 TOP RAIL



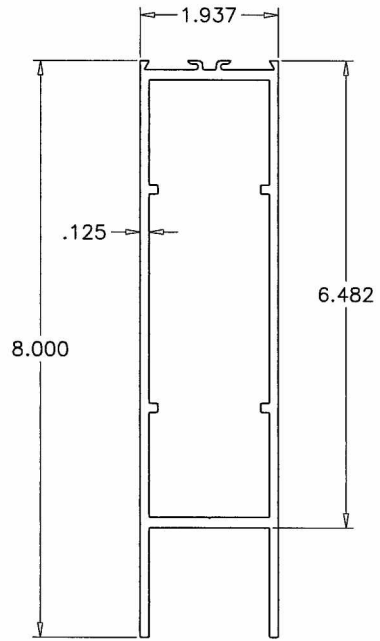
15 SHEAR BLOCK



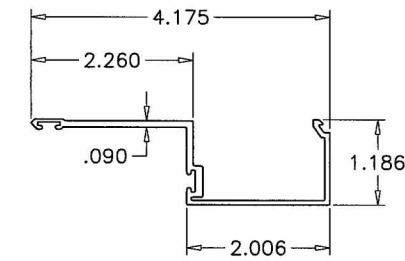
16 SHEAR CLIP



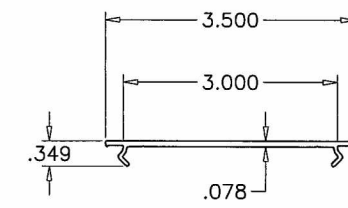
2 FRAME JAMB



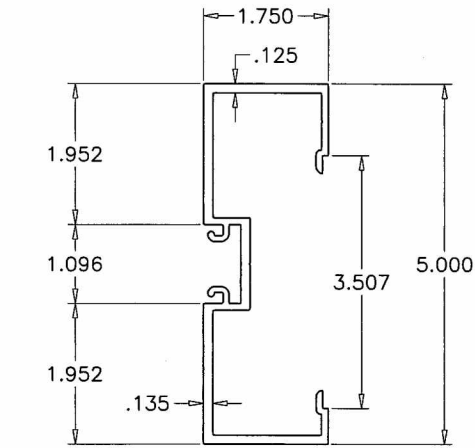
6 BOTTOM RAIL



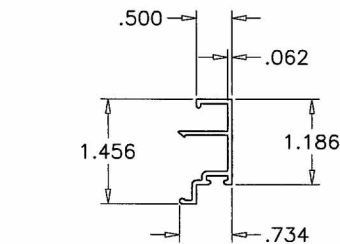
12 DOOR STOP JAMB



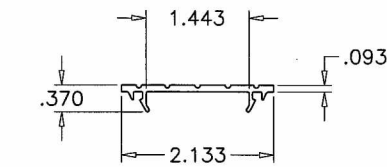
13 FLAT FILLER



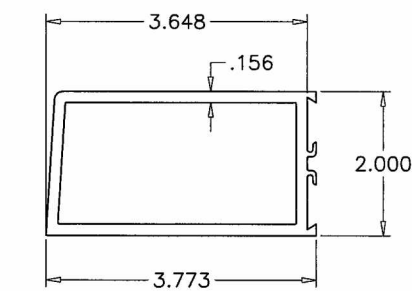
2A ALT. FRAME JAMB



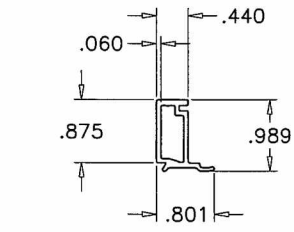
11 DOOR STOP JAMB



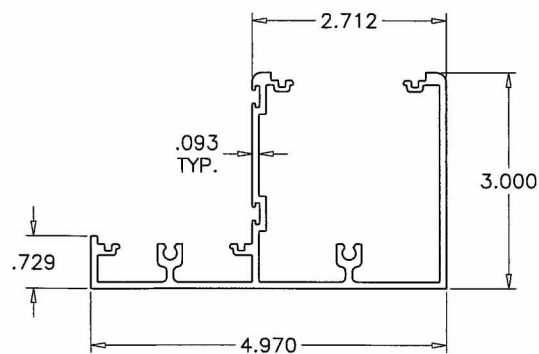
4 SILL FILLER



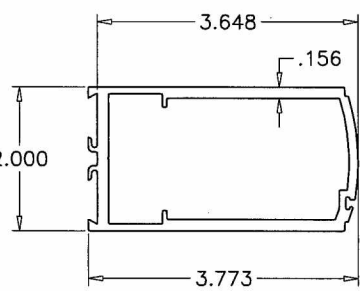
8 HINGE STILE



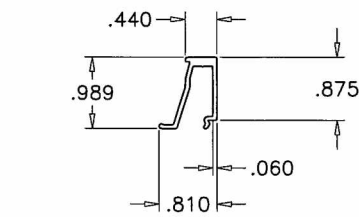
9 EXTERIOR GLASS STOP



3 FRAME SILL

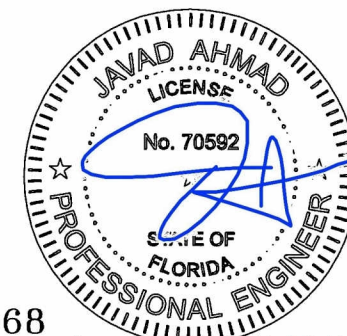


7 LOCK STILE



10 INTERIOR GLASS STOP

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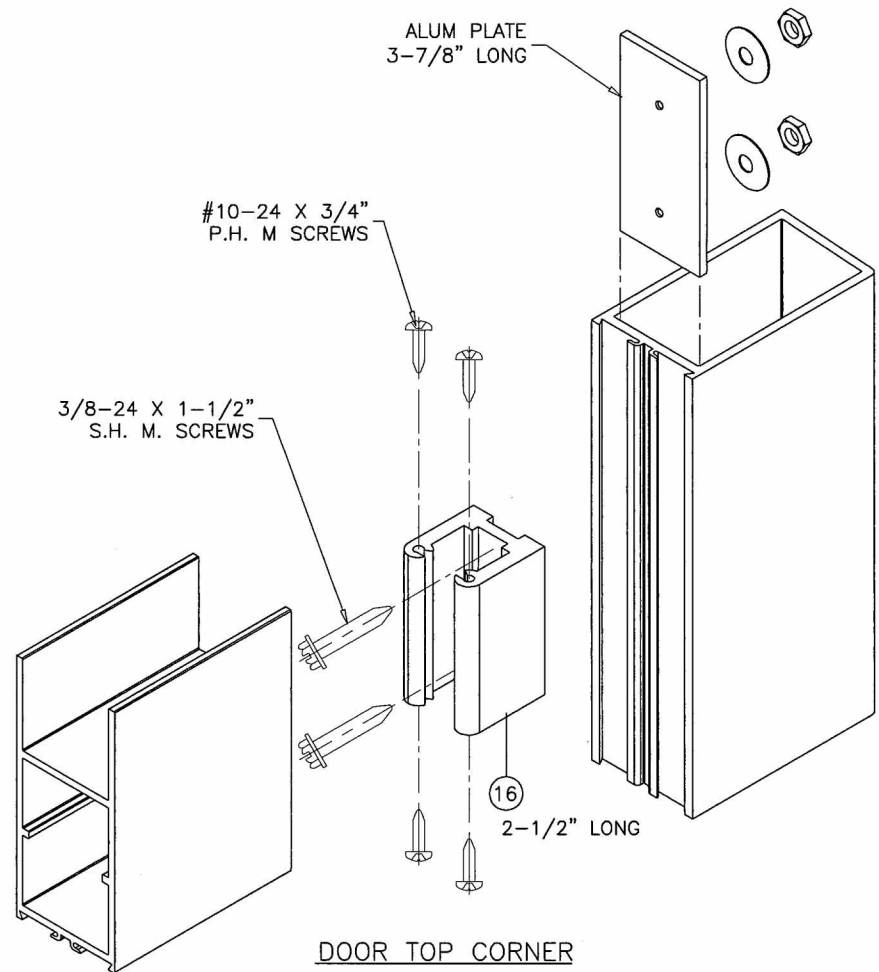
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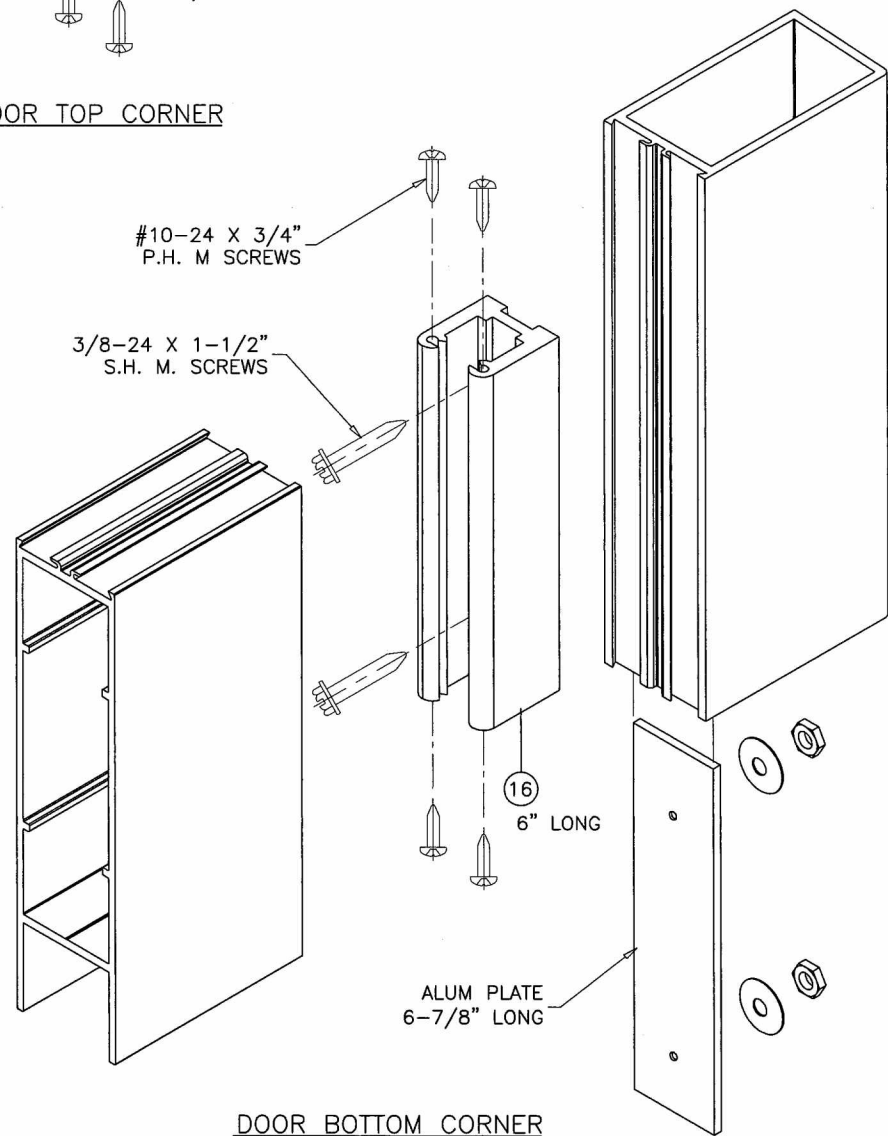
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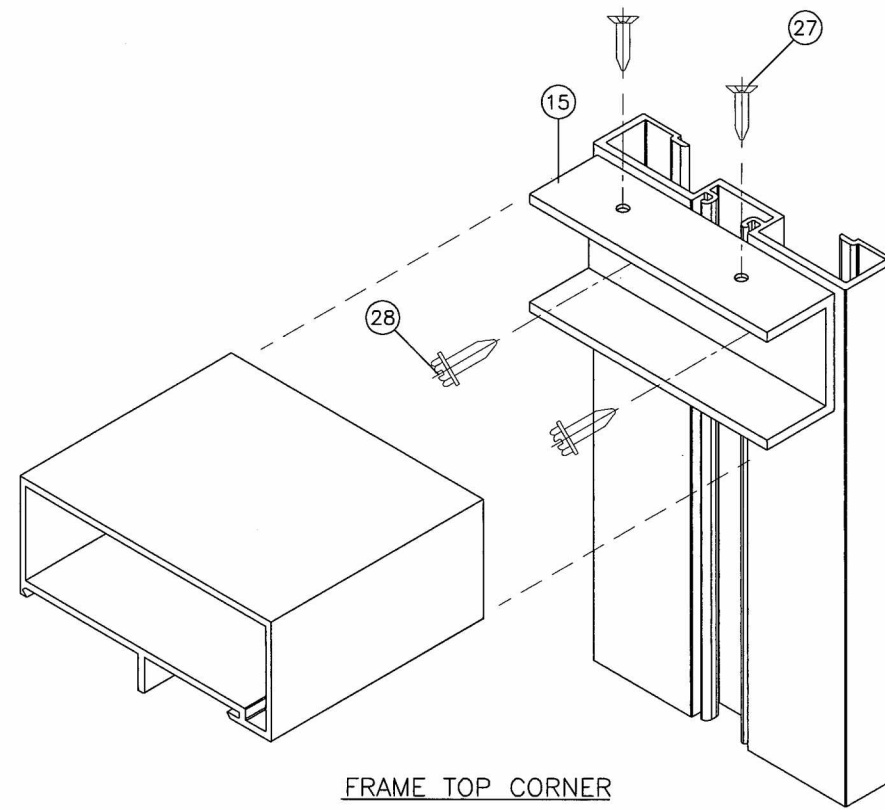
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W15-48
 sheet 4 of 5



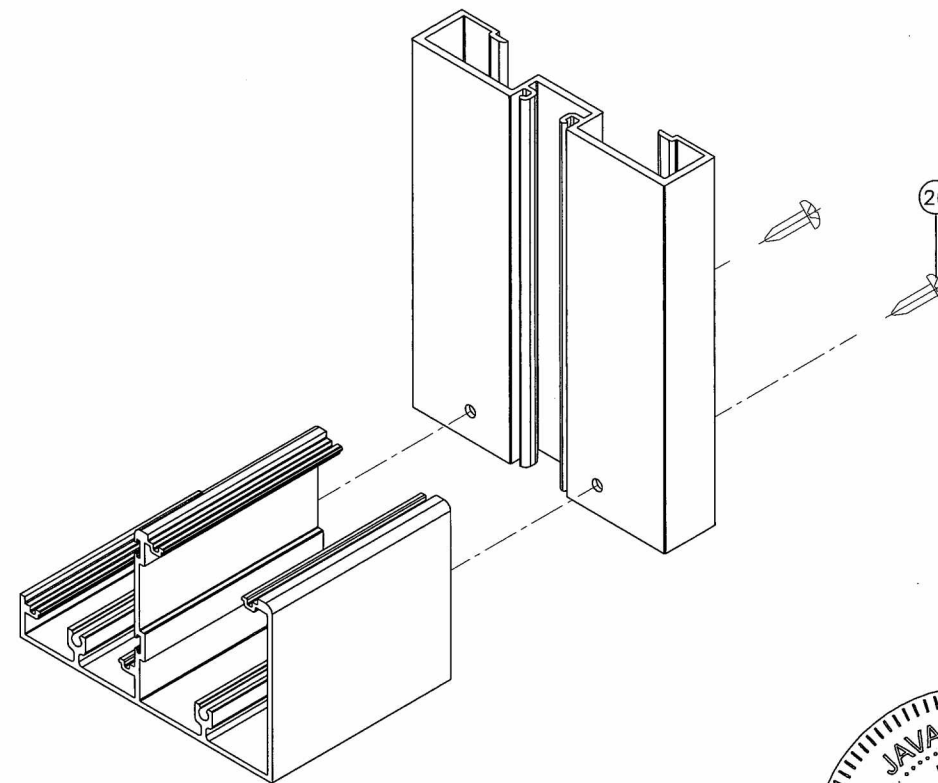
DOOR TOP CORNER



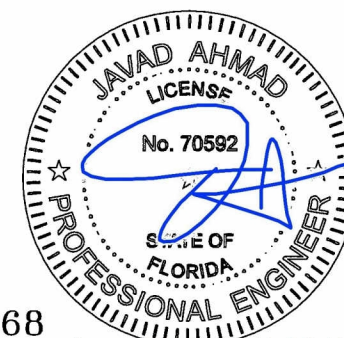
DOOR BOTTOM CORNER



FRAME TOP CORNER



FRAME BOTTOM CORNER



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 sheet 5 of 5