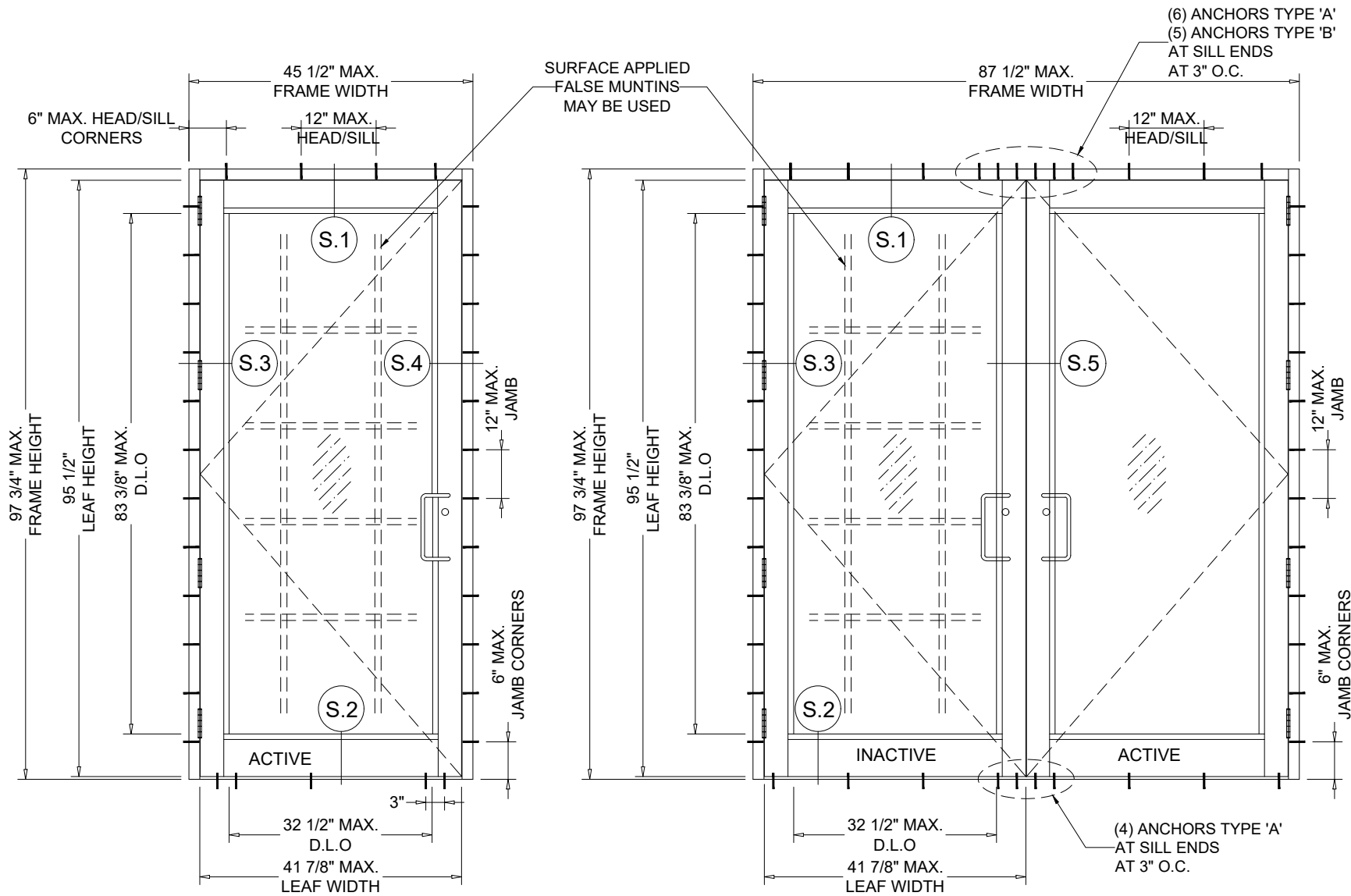


GENERAL NOTES:

- A. SINGLE (X) AND DOUBLE (XX) LEAF DOORS CAPACITY SEE SHEET 2.
TRIPLE (XXX) LEAF DOORS CAPACITY SEE SHEET 3.
QUADRUPLE (XXXX) LEAF DOORS CAPACITY SEE SHEET 3.
- B. DOORS NOT APPROVED FOR INSTALLATION WHERE INFILTRATION RESISTANCE IS REQUIRED.
- C. THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2023 (8TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
- D. 1BY OR 2BY WOOD BUCKS & BUCKS FASTENERS BY OTHER,MUST BE DESIGNED AND INSTALLED ADEQUATELY TO TRANSFER APPLIED PRODUCT LOADS TO THE BUILDING STRUCTURE.
- E. 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.
- F. A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.
- G. ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.
- H. MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2023 FLORIDA BLDG. CODE & ADOPTED STANDARDS.
- I. 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.
- J. CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL.
- K. 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.

- a. CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION PROVIDED HE/SHE DOSE 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.



TYPICAL ELEVATIONS

SINGLE (X) DOOR LOAD CAPACITY - PSF					
DOOR DIMS.		GLASS TYPE 'A'		GLASS TYPE 'B'	
FRAME WIDTH	FRAME HEIGHT	EXT. POS.	EXT. NEG.	EXT. POS.	EXT. NEG.
45-1/2"	97-3/4"	60.0	60.0	90.0	90.0

FOR GEAR HINHES LIMIT MAX. DESIGN LOADS TO ± 60.0 PSF

GLASS D.L.O. FORMULA: (DOOR)

D.L.O. WIDTH = DOOR WIDTH - 13.00" (X DOORS)
=(FRAME WIDTH - 22.50") / 2(XX DOORS)

D.L.O. HEIGHT = FRAME HEIGHT - 12.375"
DOOR LEAF HEIGHT = FRAME HEIGHT - 2.250"

SEALANT:

ALL DOOR STOP, HINGES, DRIP CAP, FRAME CORNERS, JOINTS, MULLION SEAMS AND PERIMETER OF GLAZING BEAD TO FRAME SEALED WITH SILICONE SEALANT.

DOUBLE (XX) DOOR LOAD CAPACITY - PSF					
DOOR DIMS.		GLASS TYPE 'A'		GLASS TYPE 'B'	
FRAME WIDTH	FRAME HEIGHT	EXT. POS.	EXT. NEG.	EXT. POS.	EXT. NEG.
87-1/2"	97-3/4"	60.0	60.0	90.0	90.0

FOR GEAR HINHES LIMIT MAX. DESIGN LOADS TO ± 60.0 PSF

NOTES:

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

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

FL# 22257.1



JAVAD AHMAD PE, Inc

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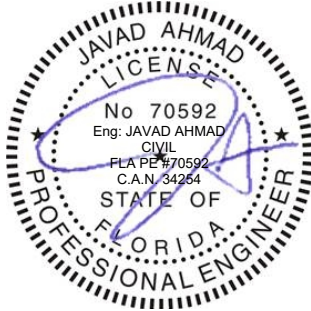
SERIES ENV-330 ALUMINUM
OUTSWING BI-FOLDING DOOR
(L.M.I & S.M.I)

ENVIRALUM IND. INC.
5100 NW 72 AVE.
UNIT C MIAMI, FL 33166
PHONE: 305.752.4411
FAX: 305.406.3877

REVISION

No.	DATE	BY	DESCRIPTION

date:	01-08-2024
scale:	
drawn by:	M.S.
check by:	H.T.
DRAWING #	JA-1695-23



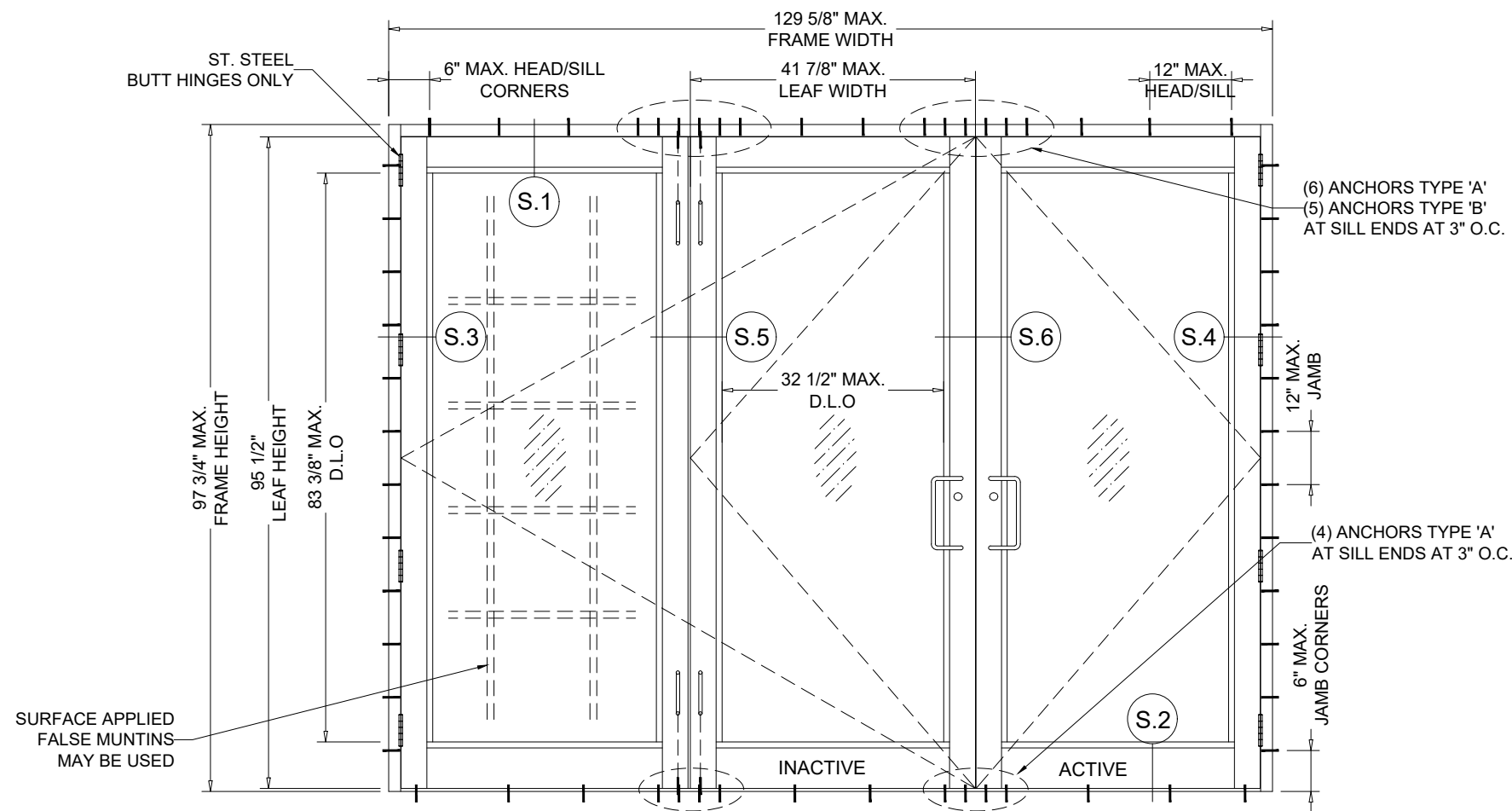
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TYP. ELEV.

SHEET No.
02 OF 11



QUADRUPLE (XXXX) DOOR LOAD CAPACITY - PSF					
DOOR DIMS.		GLASS TYPE 'A'		GLASS TYPE 'B'	
FRAME WIDTH	FRAME HEIGHT	EXT. POS.	EXT. NEG.	EXT. POS.	EXT. NEG.
171-5/8"	97-3/4"	60.0	60.0	90.0	90.0



TRIPLE (XXX) DOOR LOAD CAPACITY - PSF					
DOOR DIMS.		GLASS TYPE 'A'		GLASS TYPE 'B'	
FRAME WIDTH	FRAME HEIGHT	EXT. POS.	EXT. NEG.	EXT. POS.	EXT. NEG.
129-5/8"	97-3/4"	60.0	60.0	90.0	90.0

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

GLASS CAPACITIES ARE
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DECLARATORY STATEMENT DCA05-DEC-219



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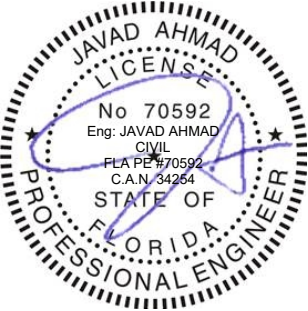
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SHEET No
03 OF 11

FL# 22257.1

TYPICAL ANCHORS:

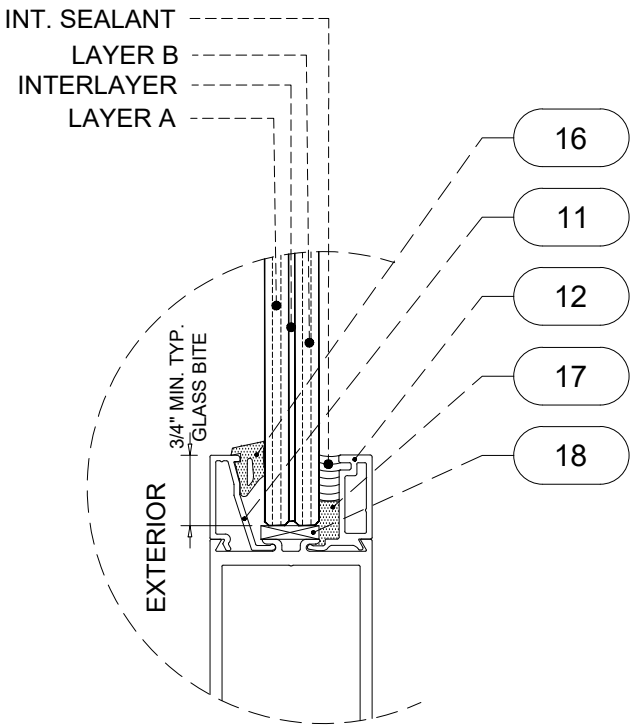
- A

1/4" DIA ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
DIRECTLY INTO CONCRETE OR MASONRY
1-1/4" MIN. EMBED INTO CONCRETE (HEAD / SILL / JAMBS)
1-1/4" MIN. EMBED INTO FILLED BLOCK (JAMBS)
- B

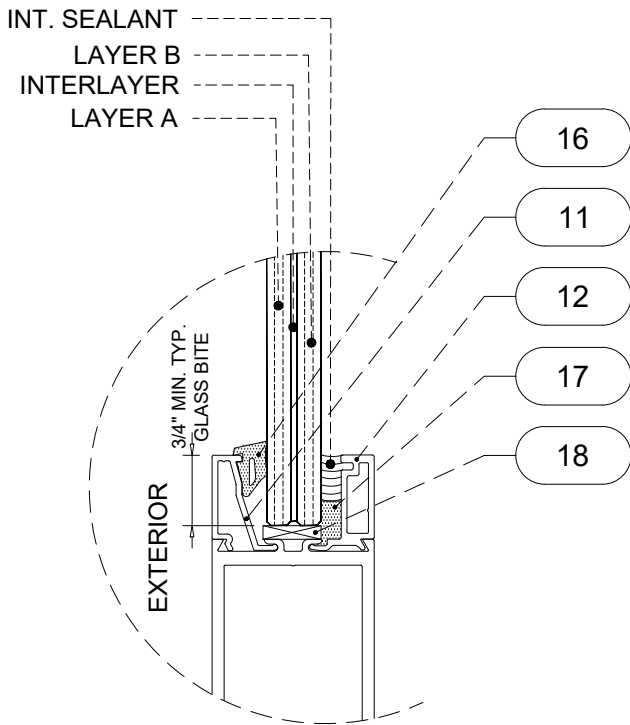
#14 SMS OF SELF DRILLING SCREWS (GRADE 2 CRS)
INTO F.B.C. APPROVED MULLIONS
OR
INTO METAL STRUCTURES (HEAD / JAMBS)
ALUMINUM: 1/8" MIN. THK. (6063-T5 MIN.)
STEEL: 1/8" THK. MIN.(Fy = 36 KSI)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL EDGE DISTANCE:
INTO CONCRETE AND MASONRY = 2-1/2" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

CONCRETE AT HEAD , SILL AND JAMBS f_c = 3000 PSI MIN.
C-90 GROUT FILLED BLOCK AT JAMBS f_m = 2000 PSI MIN.



GLASS TYPE 'A'



GLASS TYPE 'B'

COMPOSITION OF GLASS				
GLASS TYPE	LAYER A	INTERLAYER	LAYER B	INT. SEALANT
A	1/4" HEAT STREN'D GLASS	0.090" INTERLAYER SAFLEX CLEAR & COLOUR GLASS BY 'EASTMAN CHEMICAL CO'.	1/4" HEAT STREN'D GLASS	3/16" x 1/2" SILICON DOW CORNING 995
B	1/4" HEAT STREN'D GLASS	0.075" INTERLAYER SAFLEX CP WITH PET CORE BY 'EASTMAN CHEMICAL CO'.	1/4" HEAT STREN'D GLASS	3/16" x 1/2" SILICON DOW CORNING 995



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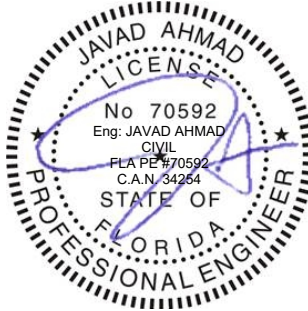
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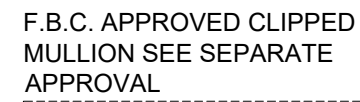


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GLASS & ANCHORS

SHEET No.
04 OF 11

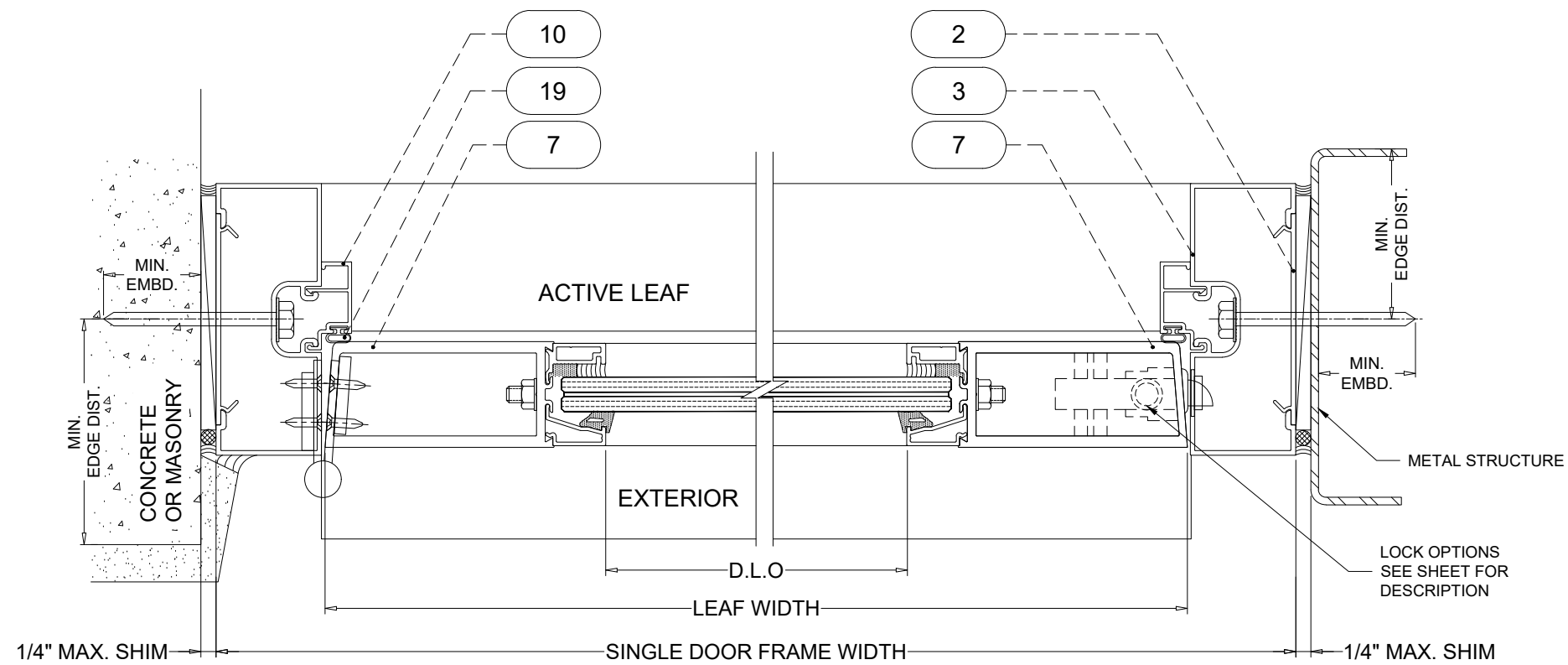


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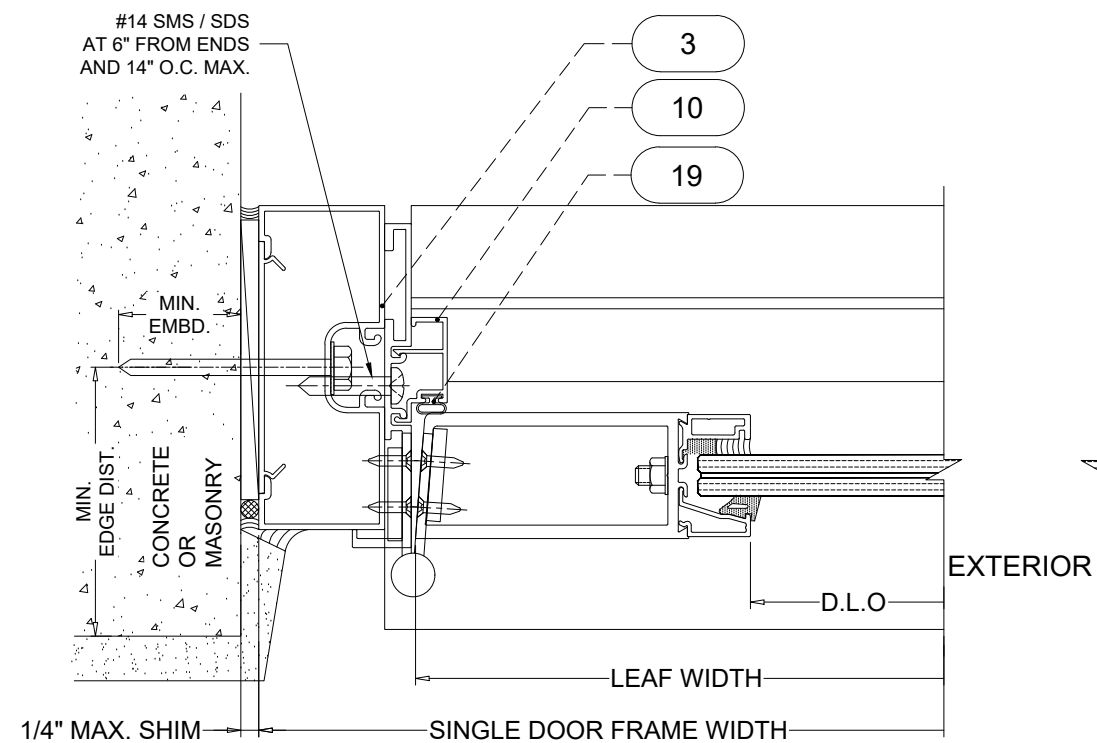
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05 OF 11

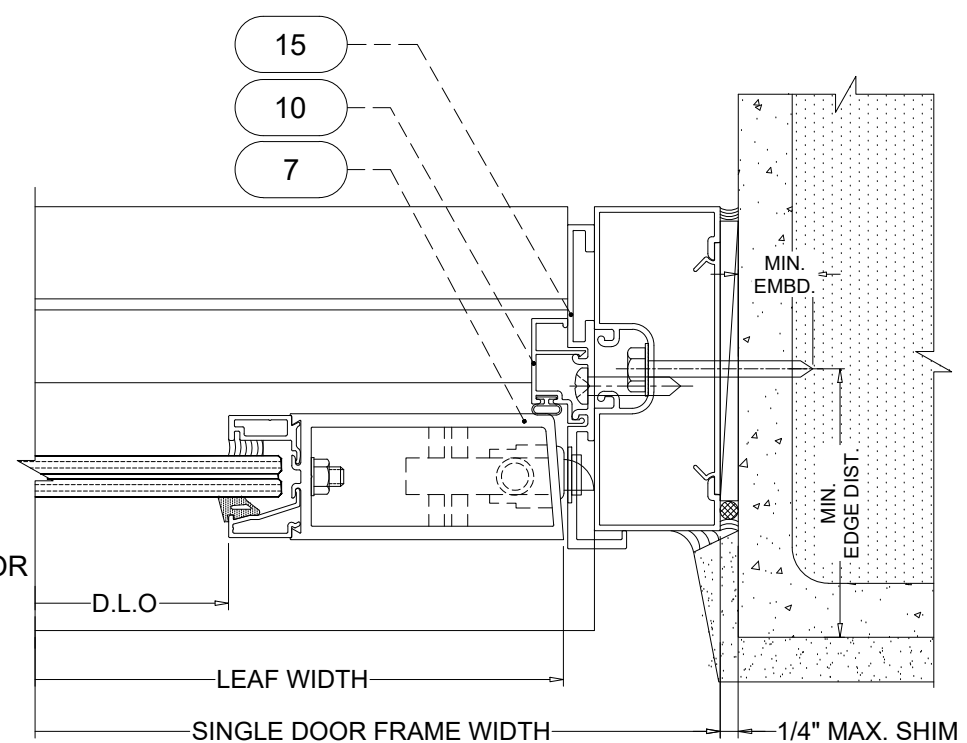


S.3 HINGE DETAIL

S.4 HANDLE DETAIL



S.3 HINGE DETAIL WITH SUB FRAME

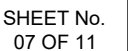


S.4 HANDLE DETAIL WITH SUB FRAME

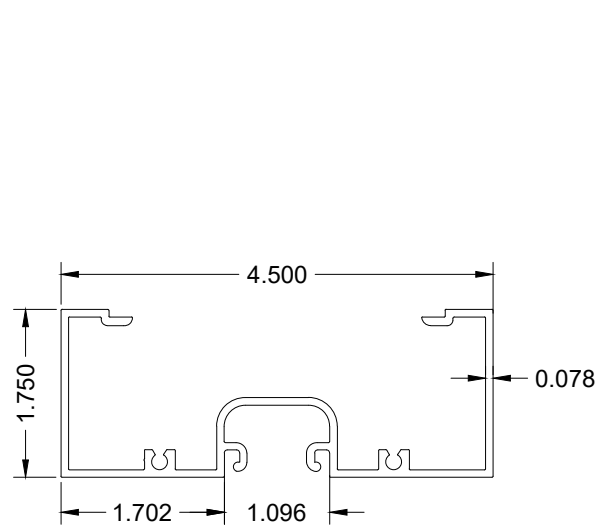
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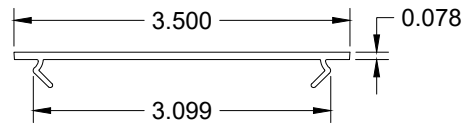
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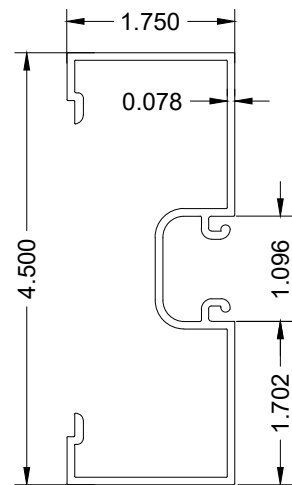
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08 OF 11



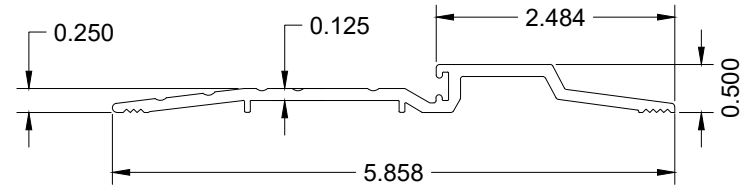
1 FRAME HEAD



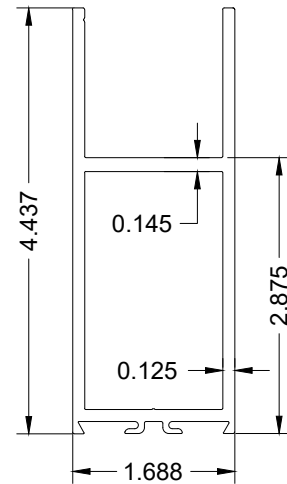
2 FLAT FILLER



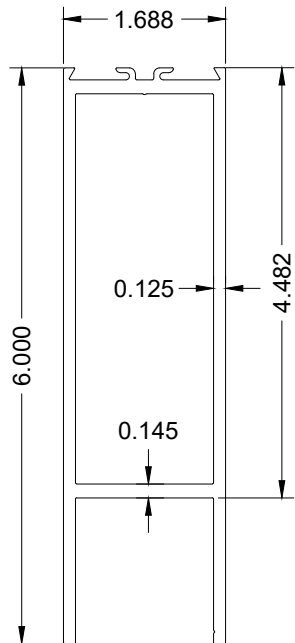
3 FRAME JAMB



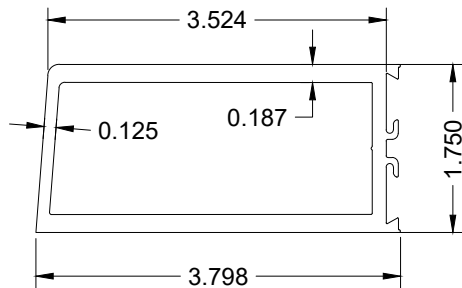
4 THRESHOLD



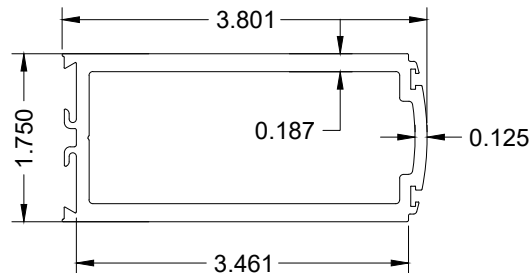
5 TOP/BOTTOM RAIL



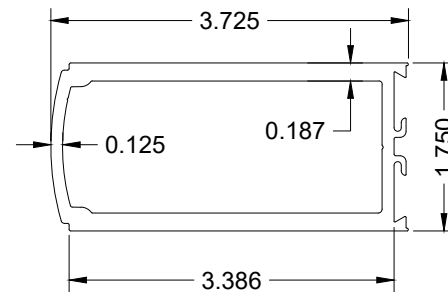
6 BOTTOM RAIL



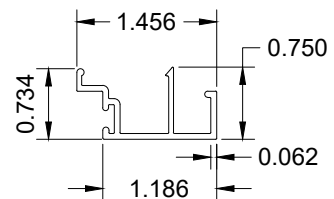
7 JAMB STILE



8 JAMB STILE



9 LOCK STILE (ACTIVE)



10 DOOR STOP



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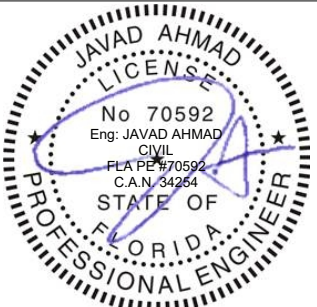
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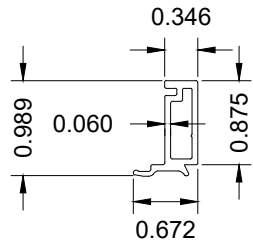
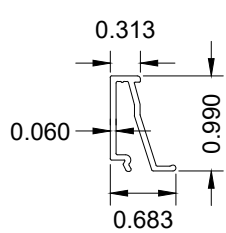


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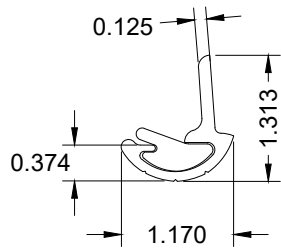
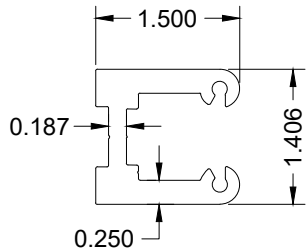
PROFILES

SHEET No.
09 OF 11



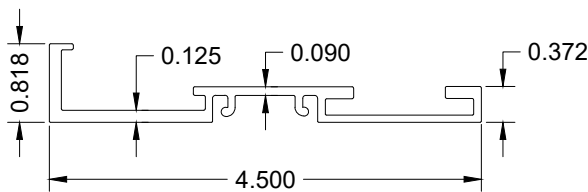
11 EXT. GLASS STOP

12 INT. GLASS STOP



13 CORNER BLOCK

14 ASTRAGAL



15 SUB FRAME ADAPTER

BILL OF MATERIALS					
ITEM NO.	PART NO.	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	ENV-4502	1	FRAME HEAD	6063-T5	-
2	ENV-4506-3	1	FLAT FILLER,3" LONG AT ANCHOR LOCATION	6063-T5	-
2A	ENV-4506	1	FLAT FILLER FULL LENGTH	6063-T5	-
3	ENV-4501	2	FRAME JAMB	6063-T5	-
4	ENV-45017	1	THRESHOLD	6063-T6	-
5	ENV-331	1/ LEAF	TOP / BOTTOM RAIL	6063-T6	-
6	ENV-332	1/ LEAF	BOTTOM RAIL	6063-T6	-
7	ENV-333	AS REQD.	JAMB STILE	6063-T6	-
8	ENV-335	AS REQD.	LOCK STILE (INACTIVE LEAF)	6063-T6	-
9	ENV-334	AS REQD.	LOCK STILE (ACTIVE LEAF)	6063-T6	-
10	ENV-45011	3	DOOR STOP	6063-T5	-
11	ENV-336	4/LEAF	EXTERIOR GLASS STOP	6063-T6	-
12	ENV-337	4/ LEAF	INTERIOR GLASS STOP	6063-T6	-
13	ENV-338	1/ CORNER	CORNER BLOCK	6063-T6	-
14	352-R	1.000	ASTRAGAL STILE	6063-T5	PEMKO
15	ENV-339	AS REQD.	SUB FRAME ADAPTER	6063-T6	-
16	TR-18916E	AS REQD.	EXTERIOR GLAZING GASKET	EPDM	TREMCO,DUROMETER 70±5 SHORE A
17	V210814	AS REQD.	INTERIOR THERMOBOND TAPE	-	CR LAURANCE
18	TR03405	2/LITE	SETTING BLOCKS, AT 1/4 POINTS	EPDM	TREMCO,DUROMETER 80±5 SHORE A
19	E205	AS REQD.	FRAME W'STRIPPING (.375 x .270 T-SLOT BULB SEAL)	-	ULTRAFAB
20	W73431NK	AS REQD.	MTG.STILE INTERIOR W'STRIPPING (TRI FIN PILE)	POLYPROPYLENE	ULTRAFAB
21	W23431NK	AS REQD.	MTG.STILE EXTERIOR W'STRIPPING (CLEARFIN PILE)	POLYPROPYLENE	ULTRAFAB
22	PK55	AS REQD.	ASTRAGAL STILE W'STRIPPING	-	PEMKO
28	#12 X 1-1/4"	AS REQD.	ASSEMBLY FASTENERS	ST. STEEL	PH SMS



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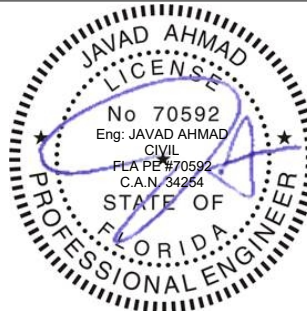
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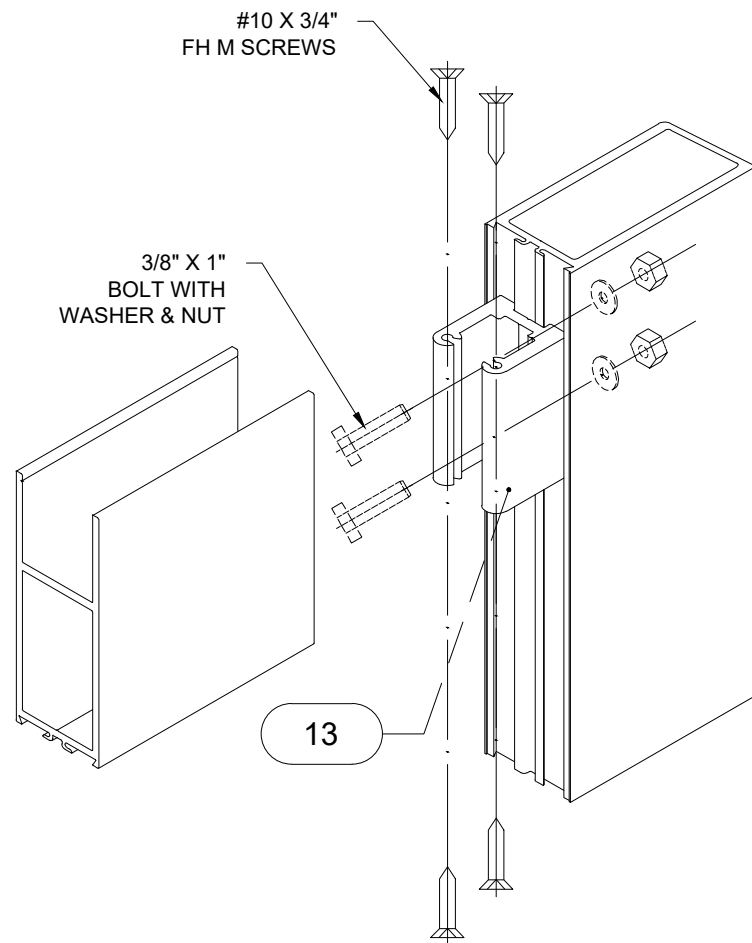


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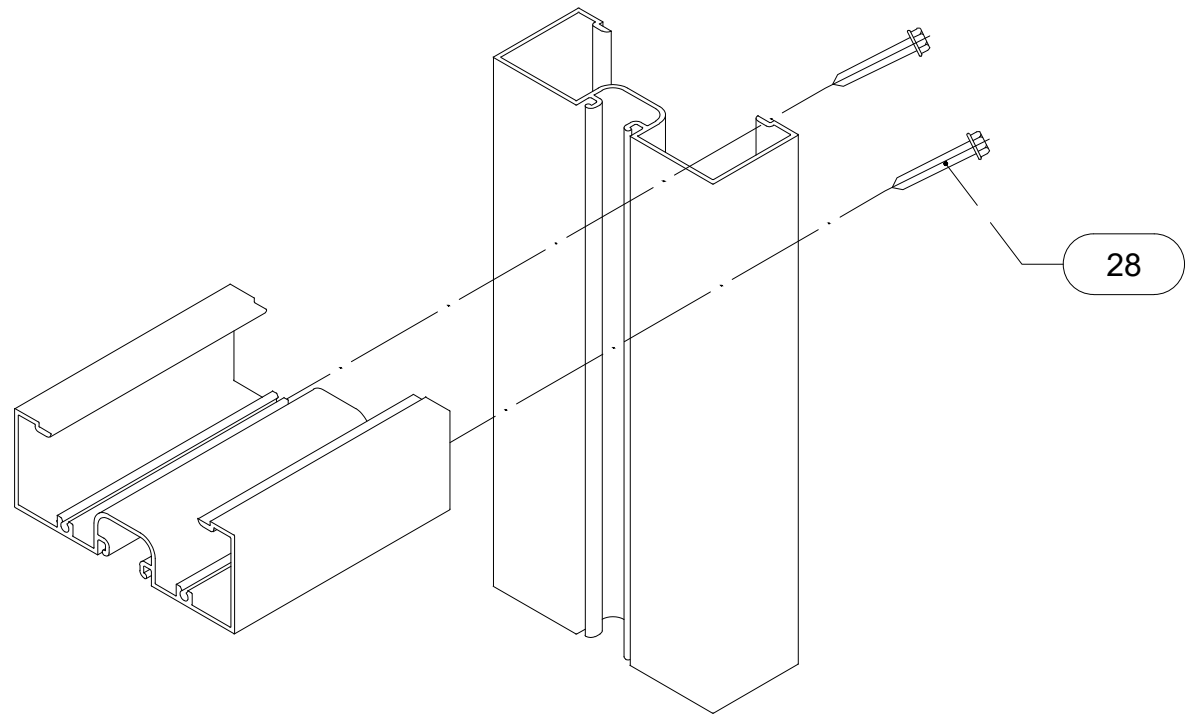
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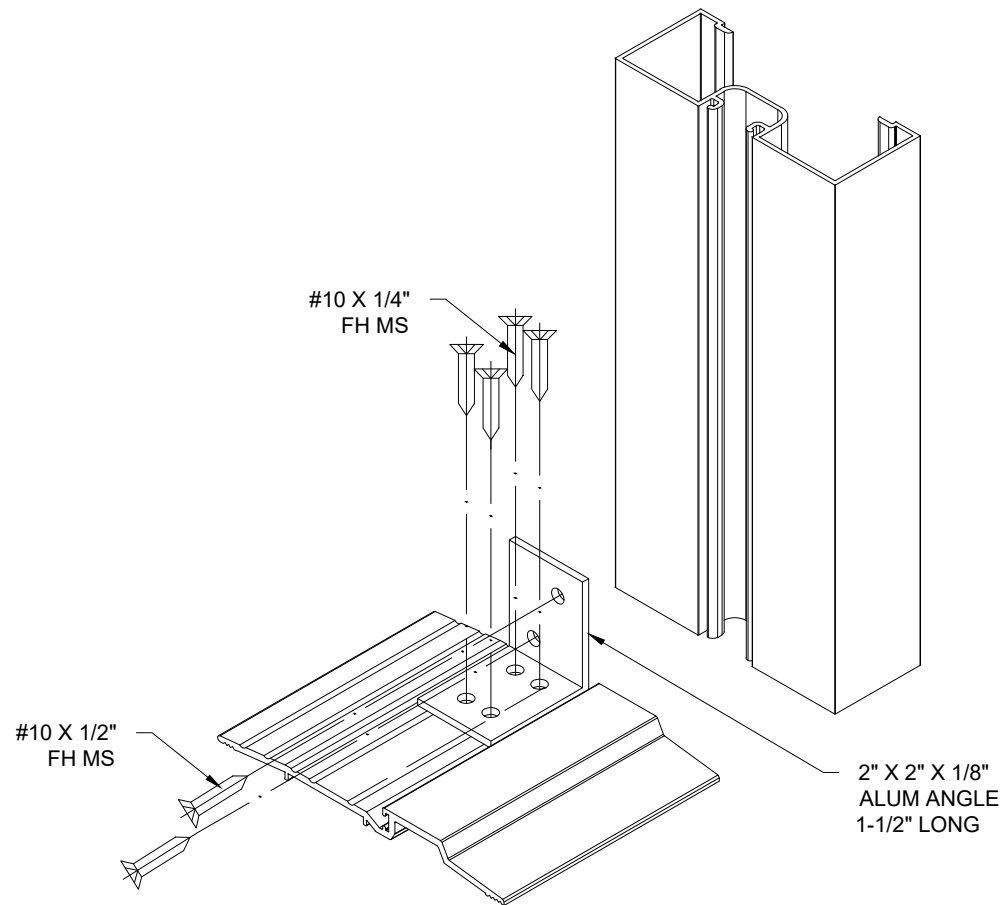
SHEET No.
10 OF 11



13 LEAF TOP / BOTTOM CORNERS



28 FRAME TOP CORNER



14 FRAME SILL CORNER



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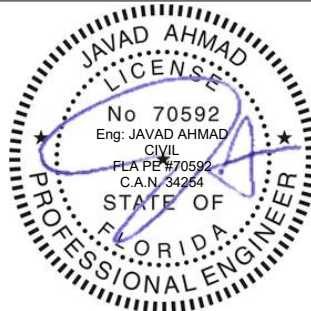
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INST. DETAILS

SHEET No.
11 OF 11

FL# 22257.1