

TUBELITE INC.
STANDARD ENTRANCE SERIES
ALUMINUM OUT-SWING DOOR

THESE DOORS ARE RATED FOR LARGE MISSILE IMPACT.
INSTALLATION OF THIS SYSTEM OUTSIDE THE HVHZ AREA SHALL MEET
THE APPLICABLE REQUIREMENTS FOR WIND BORNE DEBRIS PROTECTION.

STANDARD
ALUMINUM OUT-SWING ENTRANCE DOOR

SEE SHEET 2 FOR DESIGN LOAD CAPACITY OF SINGLE AND
DOUBLE DOORS.

DOORS NOT APPROVED FOR INSTALLATIONS WHERE WATER
INFILTRATION RESISTANCE IS REQUIRED.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE
REQUIREMENTS OF THE 2023 (8TH EDITION) FLORIDA BUILDING CODE FOR
NON HIGH VELOCITY HURRICANE ZONE.

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 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.

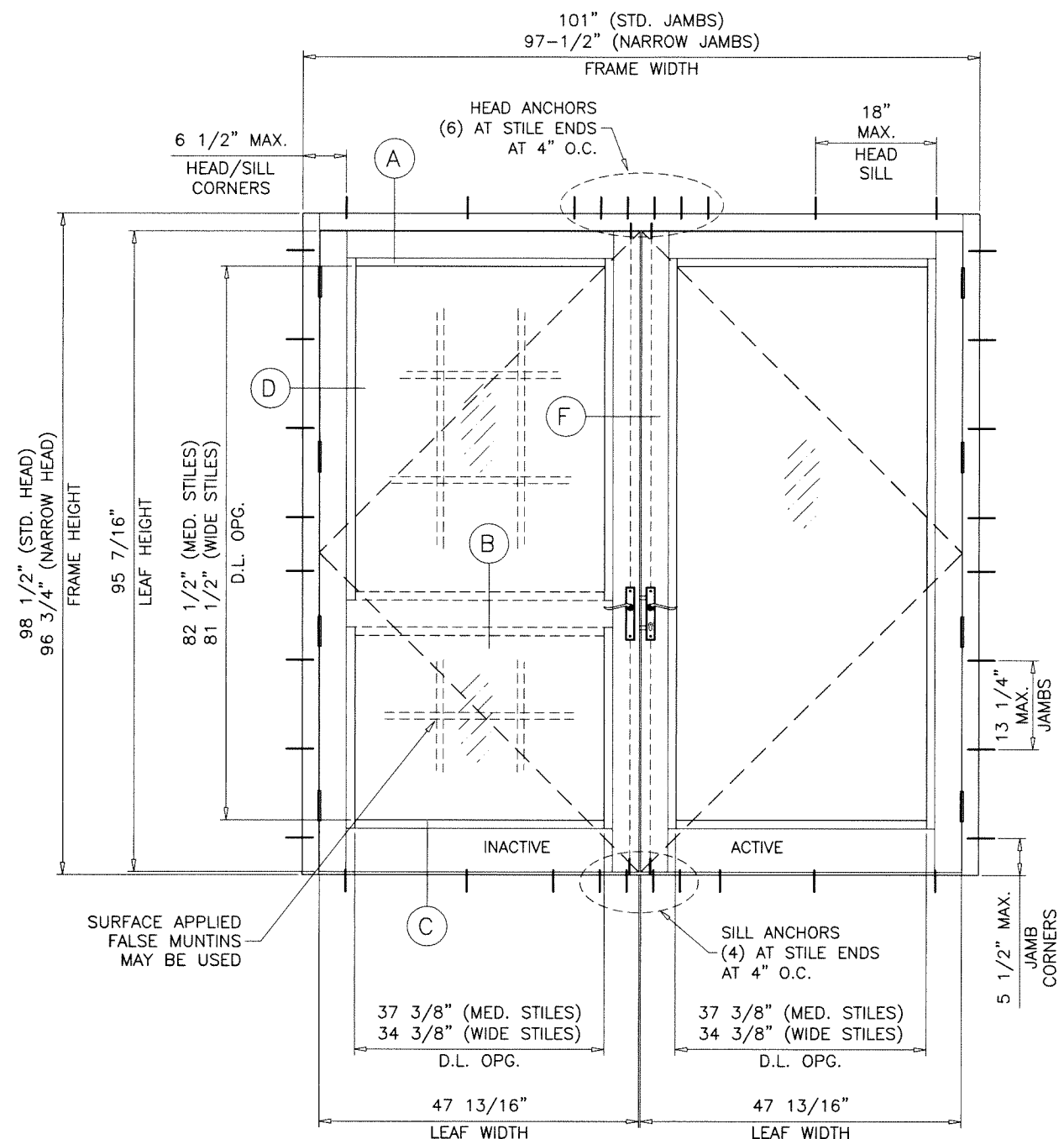
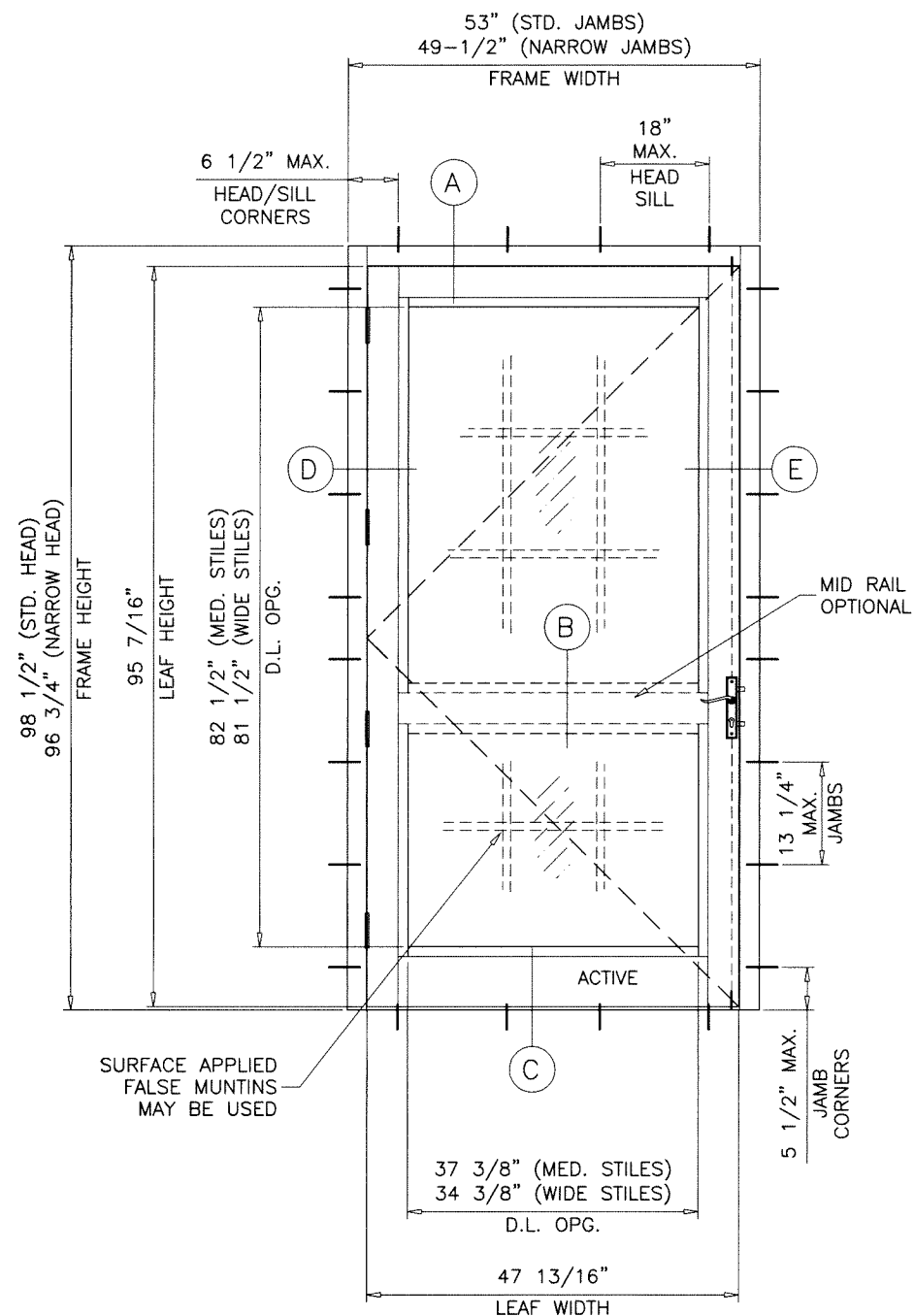
NOTE:
GLASS CAPACITIES ARE
BASED ON ASTM E1300-09 (3 SEC. GUSTS)
AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCA05-DEC-219

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.



Sealed: 1/19/2024 FL #29696

a f c			
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\19-41F-TLI			
STANDARD ALUMINUM OUTSWING DOOR (L.M.I.)			
TUBELITE INC. 3056 Walker Ridge Dr. N.W., Suite G Walker, MI 49544 Tel. 800-866-2227 Fax.			
revisions:			
no	date	by	description
A	08.05.20		UPDATED TO 2020 FBC
B	01.16.24		UPDATED TO 2023 FBC
date: 05-10-19			
scale: -			
dr. by: TARIQ			
chk. by:			
drawing no.			
19-41F			
sheet 1 of 15			



TYPICAL ELEVATIONS

SINGLE DOORS LOAD CAPACITY - PSF					
DOOR OPNG. DIMS.		LEAF DIMS.		EXT.(+)	INT.(-)
WIDTH	HEIGHT	WIDTH	HEIGHT		
48"	96"	47-13/16"	95-7/16"	70.0	70.0
37-1/2"	108" *	37-5/16"	107-7/16"	66.0	66.0

DOUBLE DOORS LOAD CAPACITY - PSF					
DOOR OPNG. DIMS.		LEAF DIMS.		EXT.(+)	INT.(-)
WIDTH	HEIGHT	WIDTH	HEIGHT		
96"	96"	47-13/16"	95-7/16"	70.0	70.0
75"	108" *	37-5/16"	107-7/16"	66.0	66.0

GLASS D.L.O. FORMULAE:

D.L.O. WIDTH = LEAF WIDTH - 10.438" (MEDIUM STILES)
= LEAF WIDTH - 13.438" (WIDE STILES)

D.L.O. HEIGHT = LEAF HEIGHT - 12.938" (MEDIUM STILES)
= LEAF HEIGHT - 13.938" (WIDE STILES)

DOOR LEAF WIDTH (X DOORS) = FRAME WIDTH - 5.187" (STD. JAMBS)
= FRAME WIDTH - 1.687" (NARROW JAMBS)

DOOR LEAF WIDTH (XX DOORS) = FRAME WIDTH - 5.375" (STD. JAMBS)
= FRAME WIDTH - 1.875" (NARROW JAMBS)

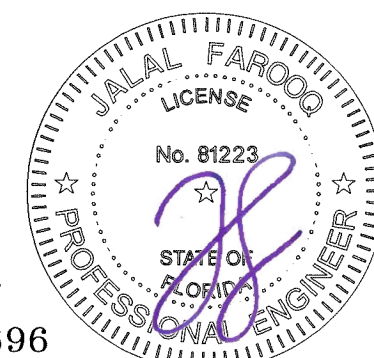
DOOR LEAF HEIGHT = FRAME HEIGHT - 3.062" (STD. HEAD)
= FRAME HEIGHT - 1.3125" (NARROW HEAD)

* LIMIT THESE SIZES TO DOORS GLAZED WITH DOWSIL 995 ONLY.

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TEL. (305) 264-8100 FAX. (305) 262-6978

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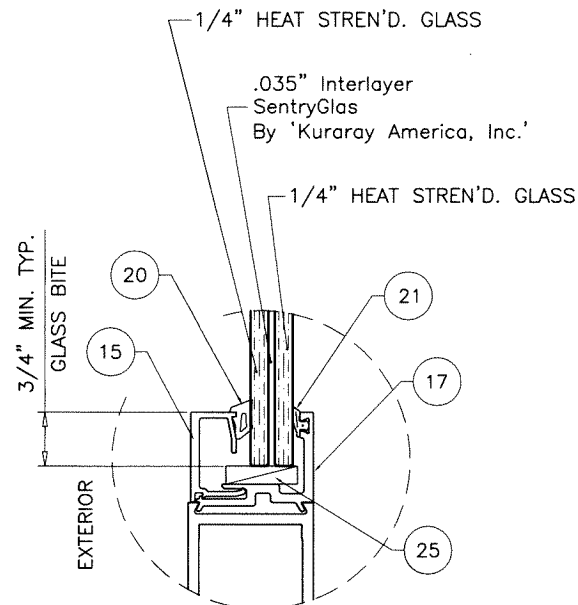
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no	date	by	description

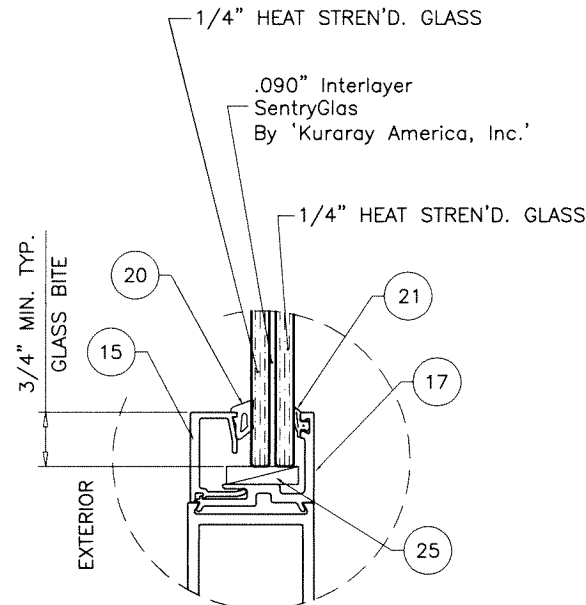
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chk. by:

drawing no.
19-41F

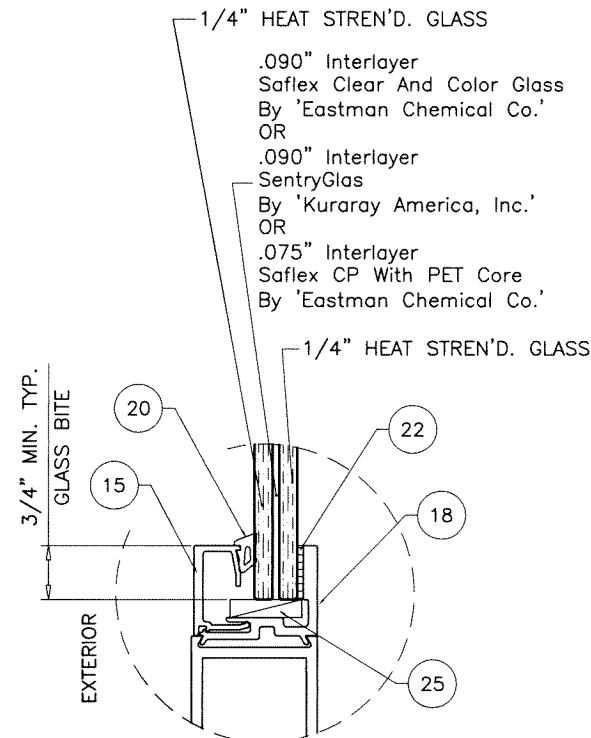
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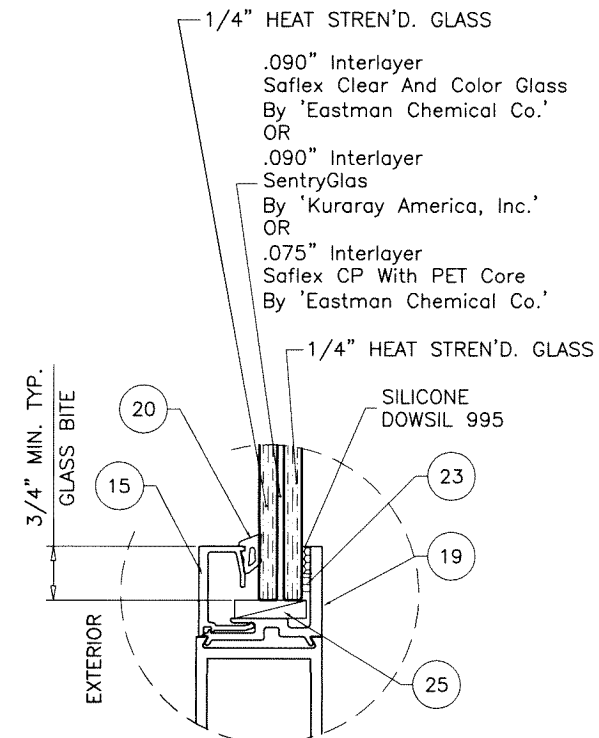
GLASS TYPE 'C'
9/16" OVERALL LAM. GLASS



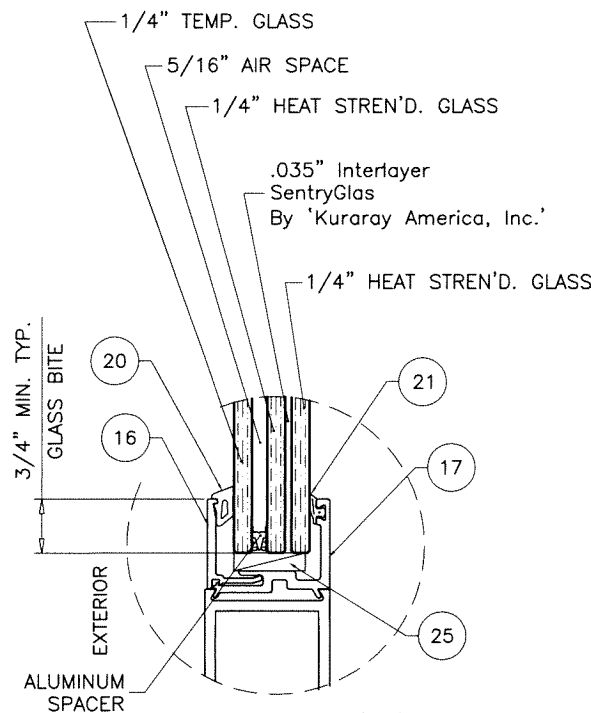
GLASS TYPE 'D'
9/16" OVERALL LAM. GLASS



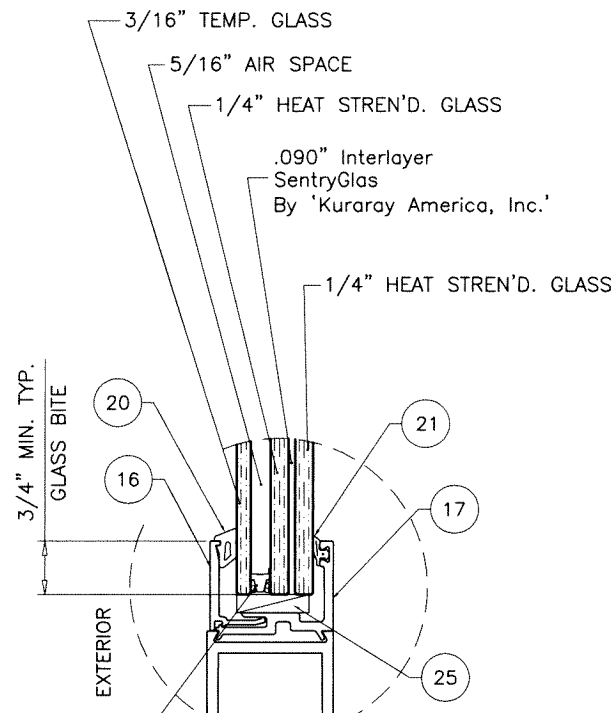
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9/16" OVERALL LAM. GLASS



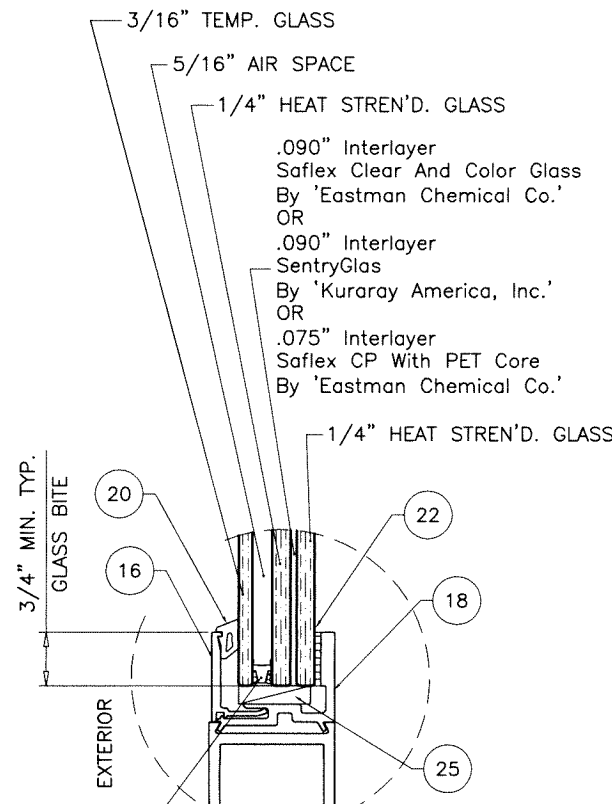
GLASS TYPE 'D2'
9/16" OVERALL LAM. GLASS



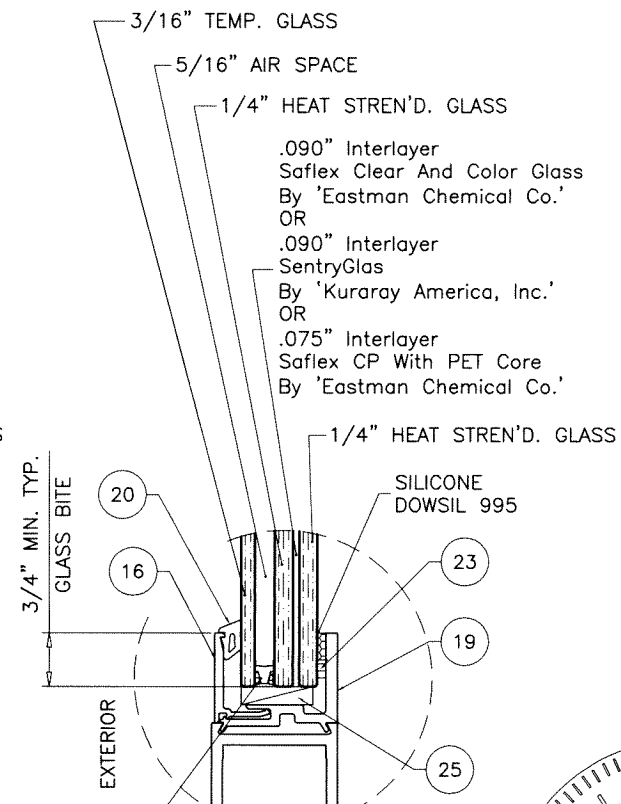
GLASS TYPE 'Ci'
1-1/16" OVERALL INSUL. LAM. GLASS



GLASS TYPE 'Di'
1-1/16" OVERALL INSUL. LAM. GLASS



GLASS TYPE 'D1i'
1-1/16" OVERALL INSUL. LAM. GLASS



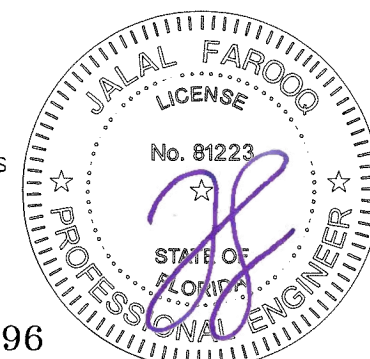
GLASS TYPE 'D2i'
1-1/16" OVERALL INSUL. LAM. GLASS

GLAZING DETAILS
LEVEL 'C' IMPACT

GLAZING DETAILS
LEVEL 'D' IMPACT

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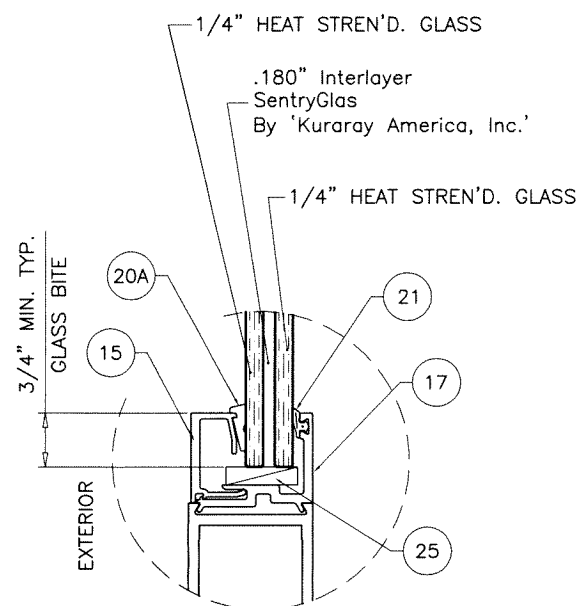
af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
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TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\19-41F-TLI

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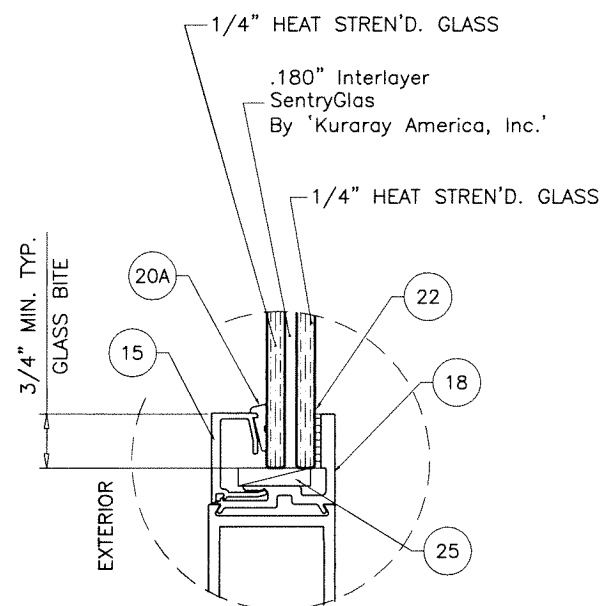
TUBELITE INC.

3056 Walker Ridge Dr. N.W., Suite G
Walker, MI 49544
Tel. 800-866-2227 Fax.

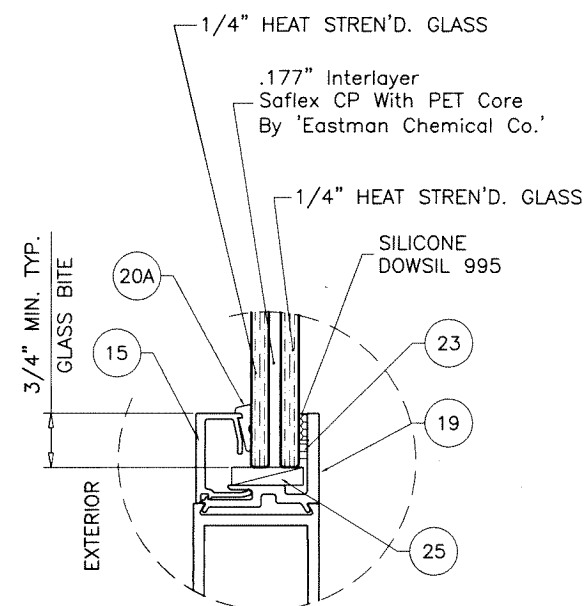
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dr. by:	TARIQ	chk. by:	
drawing no.		19-41F	
sheet		3 of 15	



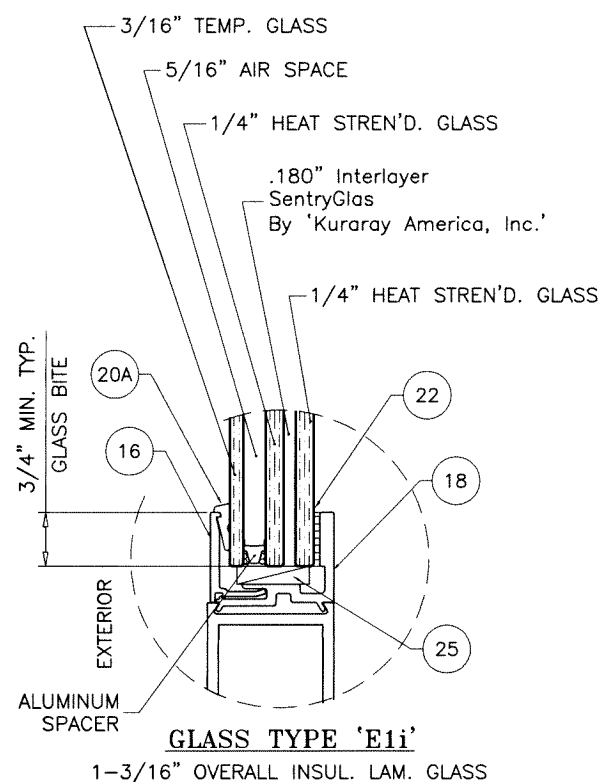
GLASS TYPE 'E'
11/16" OVERALL LAM. GLASS



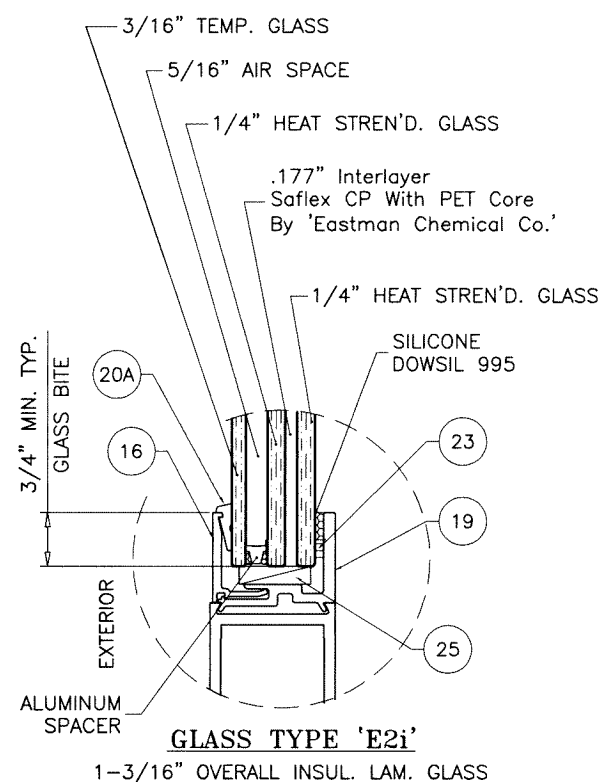
GLASS TYPE 'E1'
11/16" OVERALL LAM. GLASS



GLASS TYPE 'E2'
11/16" OVERALL LAM. GLASS



GLASS TYPE 'E1i'
1-3/16" OVERALL INSUL. LAM. GLASS

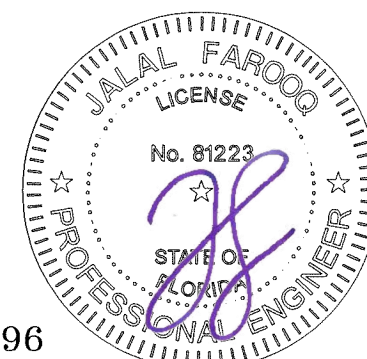


ACER GLASS TYPE 'E2i'
1-3/16" OVERALL INSUL. LAM. GLASS

GLAZING DETAILS
LEVEL 'E' IMPACT

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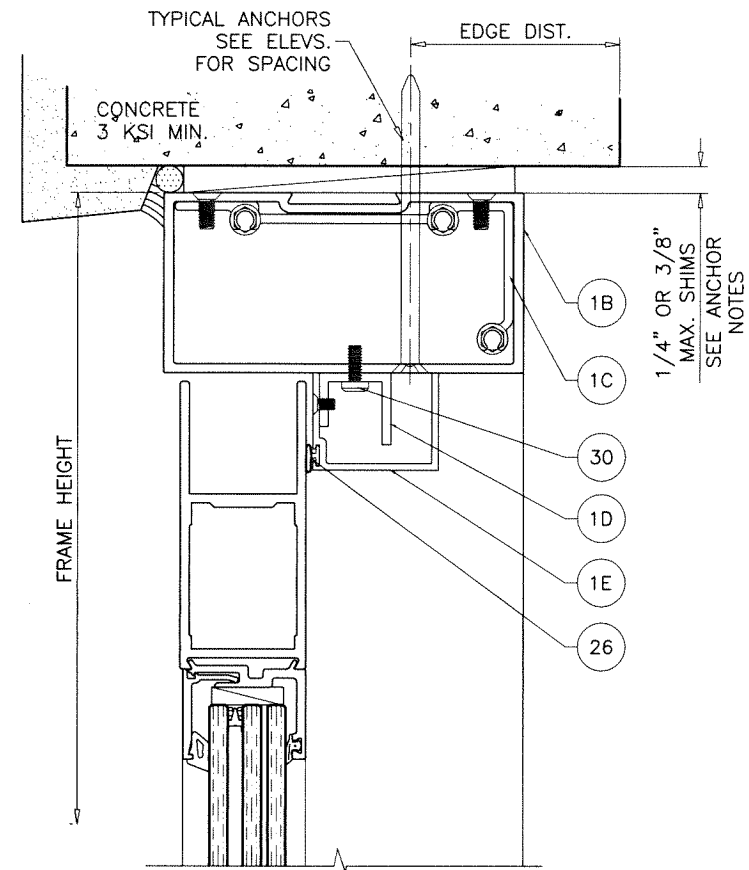
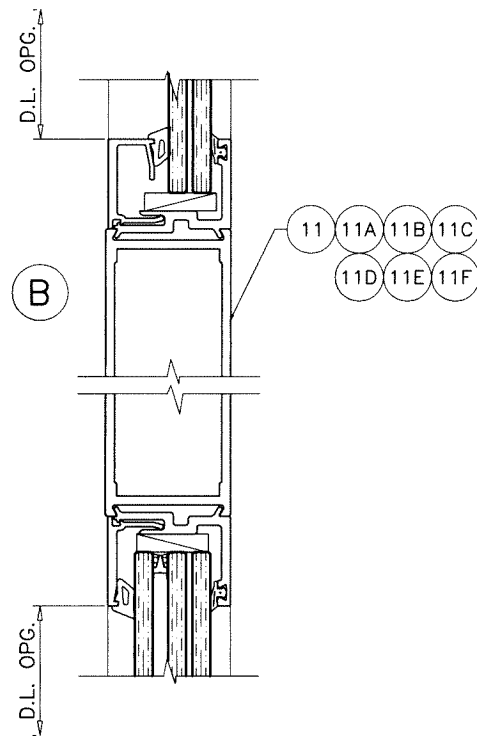
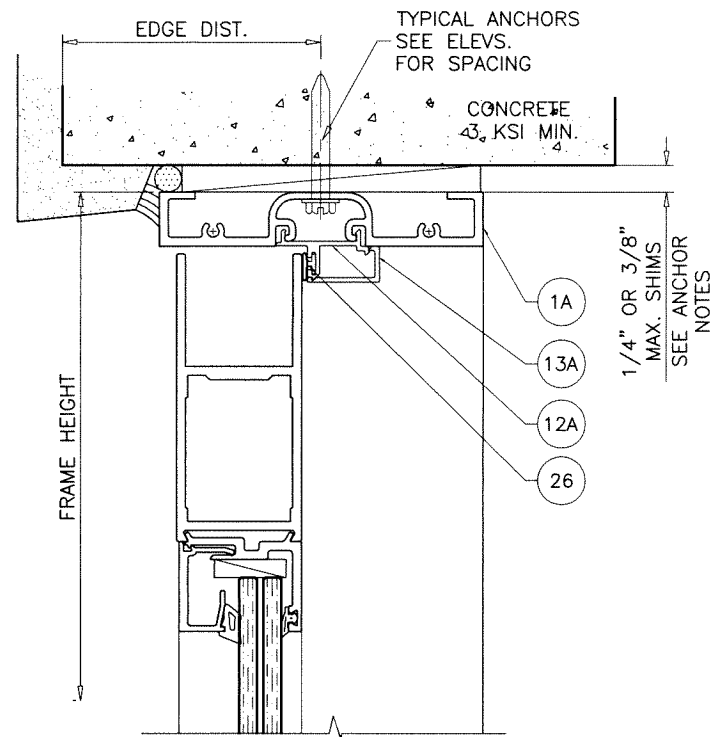
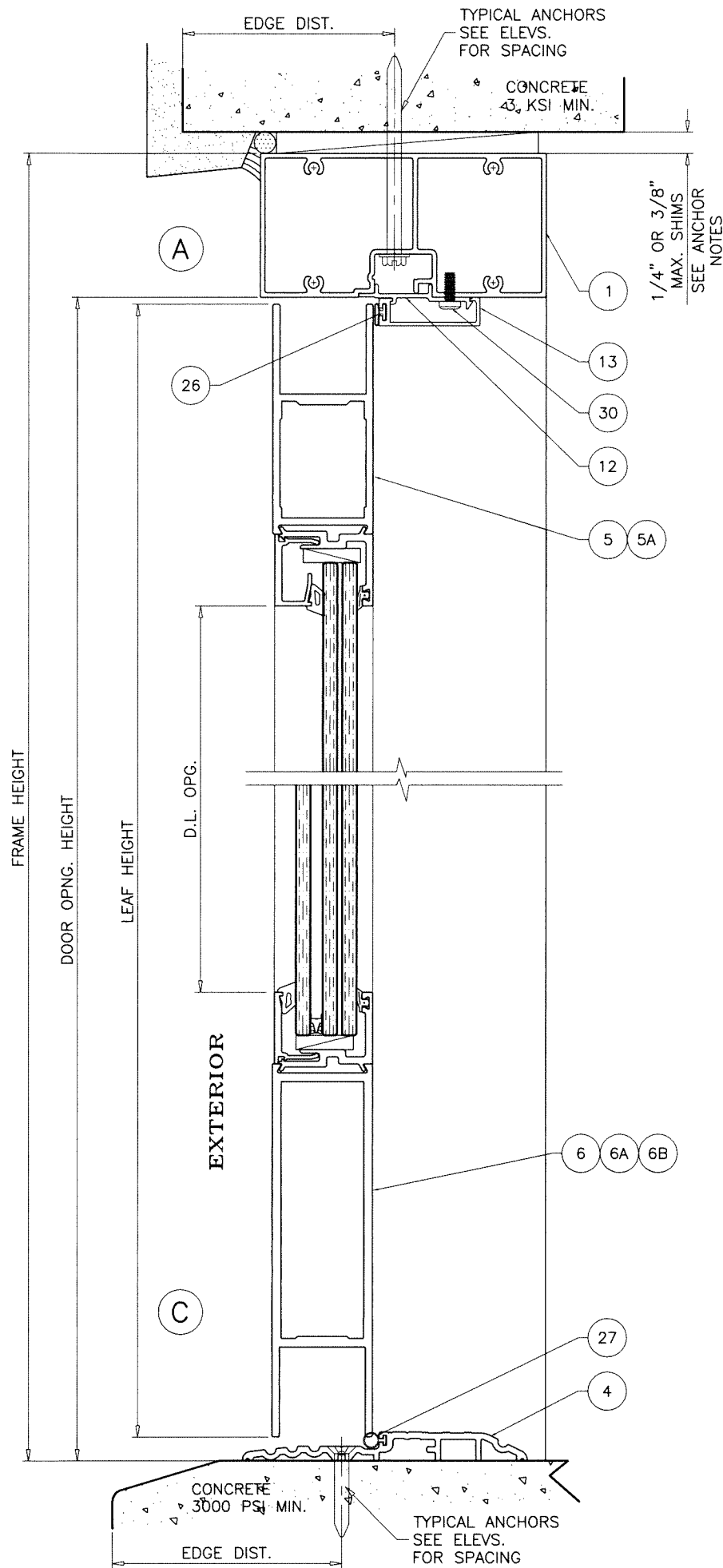
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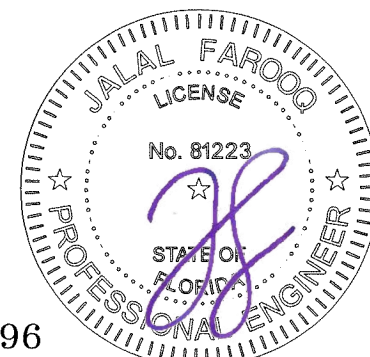
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drawing no.		date: 05-10-19		revisions:	
19-41F		scale: 3/8" = 1"		no date by description	
sheet 4 of 15		dr. by: TARIQ			
		chk. by:			



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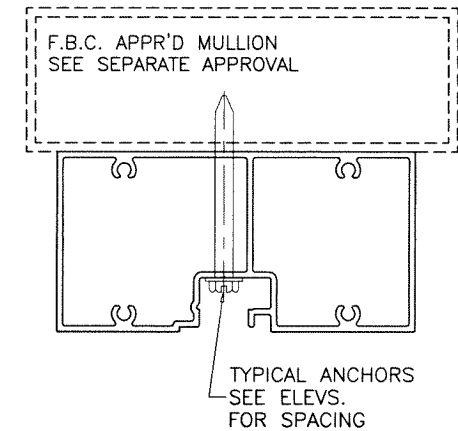
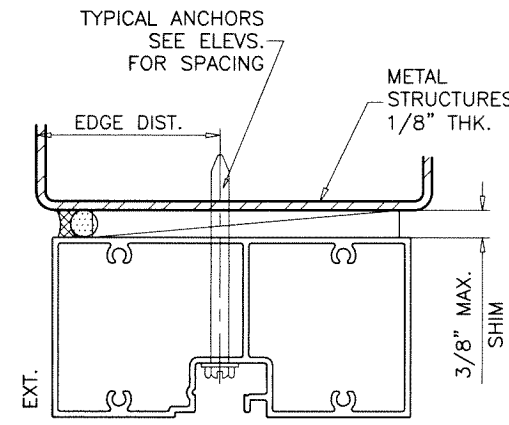
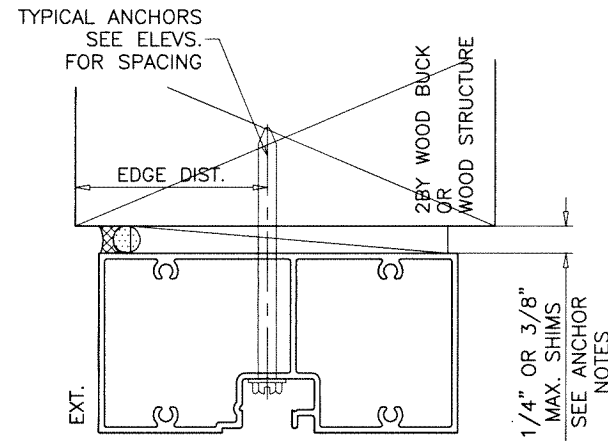
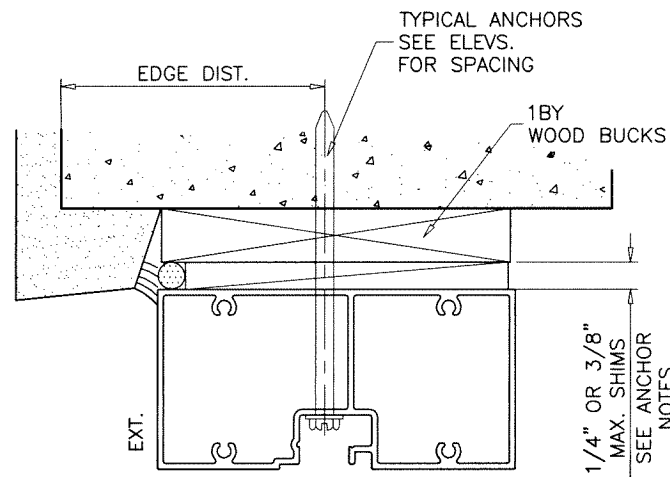
scale: 3/8" = 1"

dr. by: TARIQ

chk. by:

drawing no.
19-41F

sheet 5 of 15



WOOD BUCKS AND METAL STRUCTURE NOT BY 'TUBELITE INC.'
MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM
AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

1/4" DIA. TAPCON BY 'ITW' (Fu=125 KSI, Fy=100 KSI)
(1/4" MAX. SHIMS)

1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
(3/8" MAX. SHIMS)

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/JAMBS)
1-1/4" MIN. EMBED INTO MASONRY (JAMBS)

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

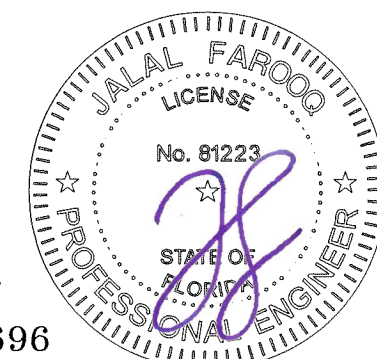
1/4" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)
(3/8" MAX. SHIMS)

INTO F.B.C. APPROVED MULLIONS
OR
INTO 18 GA. METAL STUDS (Fy = 33 KSI MIN.)
OR
INTO METAL STRUCTURES (HEAD/SILL/JAMBS)
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)

TYPICAL EDGE DISTANCE

INTO CONCRETE AND MASONRY = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 1/2" 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.



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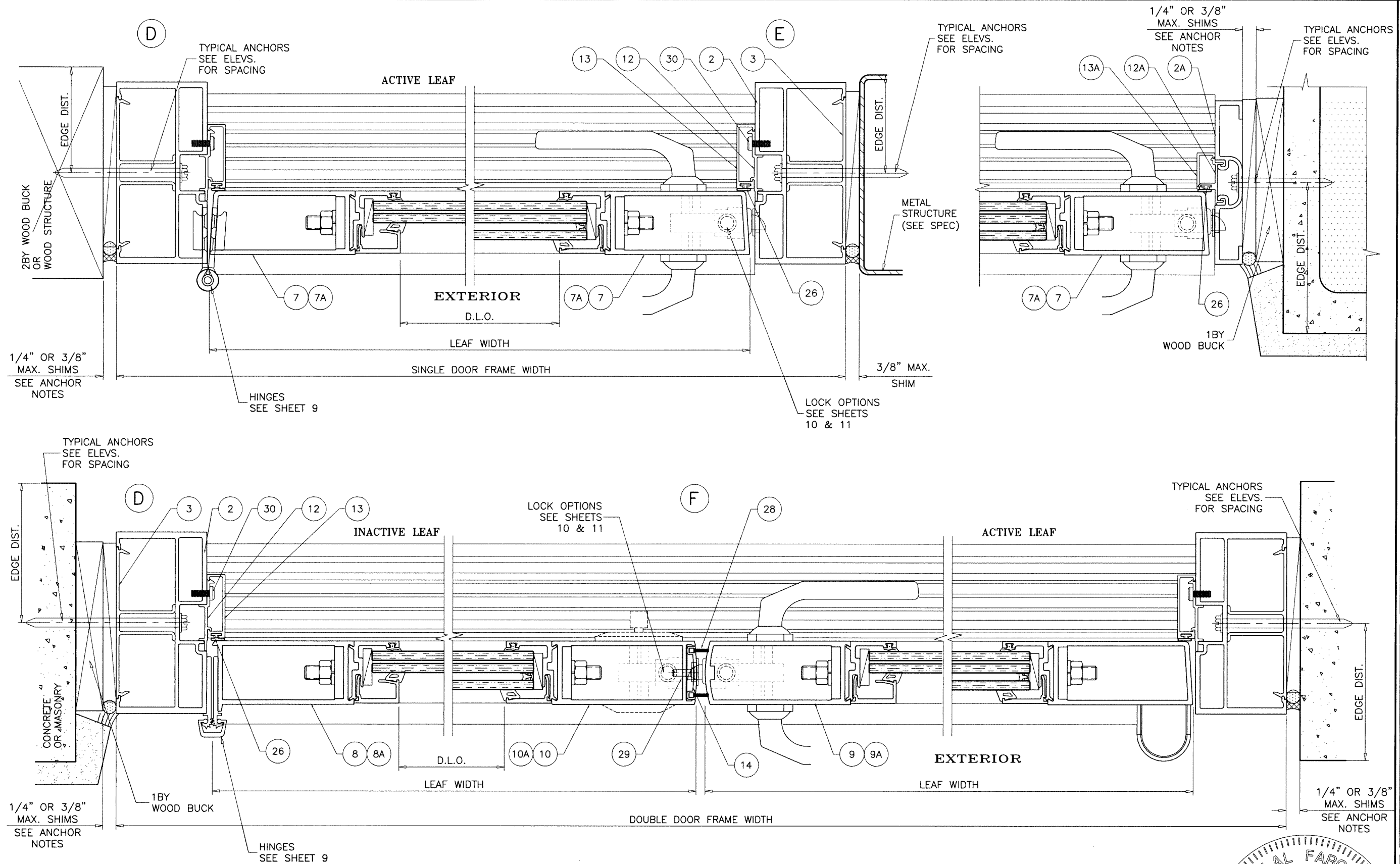
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dr. by:	TARIQ	chk. by:	
drawing no.	19-41F	sheet	6 of 15



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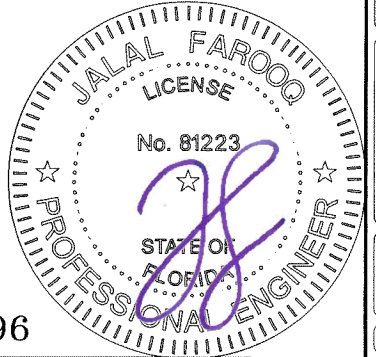
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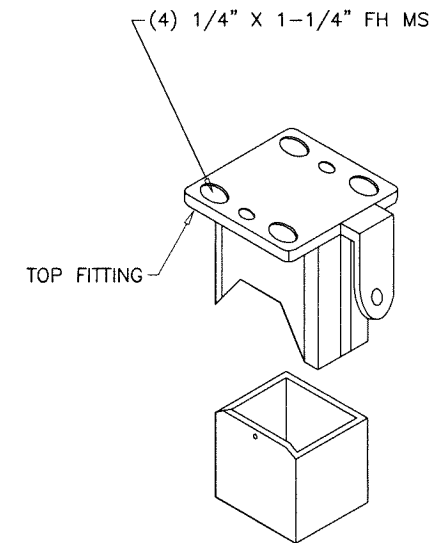
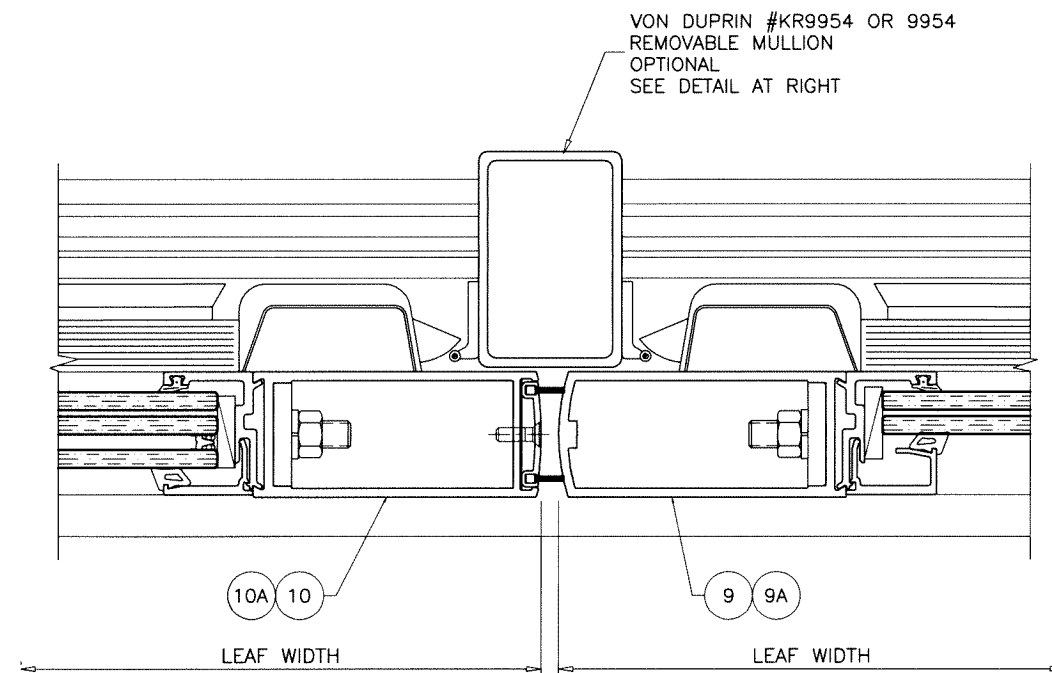
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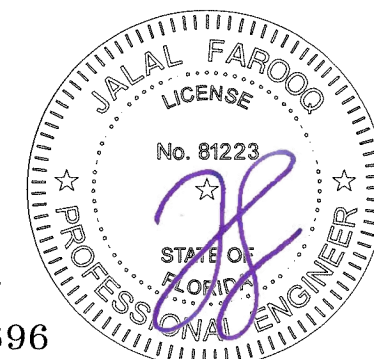
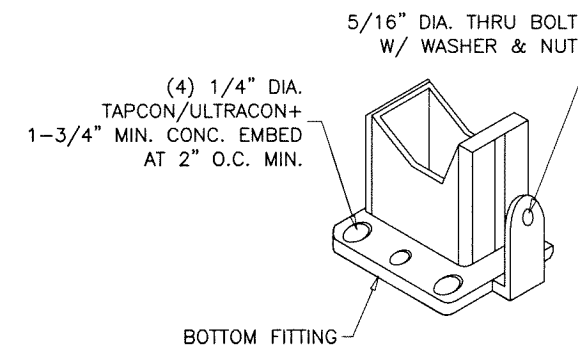
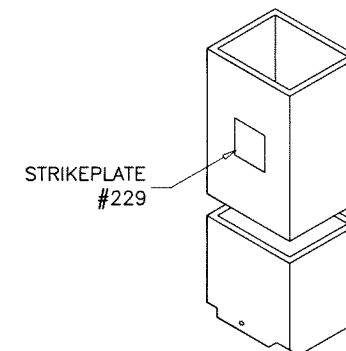
sheet 7 of 15



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FL #29696



VON DUPRIN #KR9954
REMOVABLE MULLION
OPTIONAL
(USE ONLY WITH RIM EXIT DEVICE)



Sealed: 1/19/2024

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date:	05-10-19	scale:	3/8" = 1"	dr.	by:	TARIQ	chk.	by:	
drawing no.		19-41F		sheet		8 of 15			

COMP-ANL\19-41F-TLI

OPTION #1:

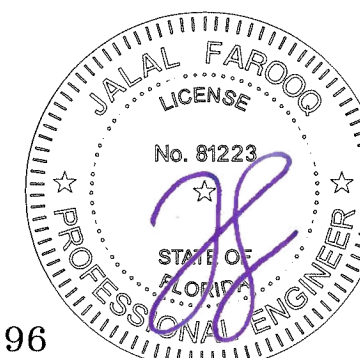
This technical drawing shows a cross-section of a door handle assembly. On the left, a vertical door panel is shown with a handle mounted on it. The handle is connected to a spindle that passes through the door. The spindle is secured with a nut and washer on the right side. The handle itself has a decorative cap and a base plate. The drawing is a line drawing with some shading to indicate depth.

OPTION #2:

This technical cross-section drawing illustrates the internal components of a window assembly. On the left, a vertical frame section is shown with a sash or shutter mechanism. A black rectangular component, likely a seal or part of the locking system, is visible within the frame. The main body of the window is a large, rectangular frame with a central opening. To the right of this opening, there is a complex assembly of components, including a horizontal frame section, a sash or shutter mechanism, and various seals and hardware. The drawing uses fine lines to represent the internal structure and components, with some areas shaded to indicate different materials or components.

OPTION #3:

A technical line drawing of a door handle assembly. On the left is a vertical door profile with a handle cutout. A black rectangular handle is mounted on it. A vertical spindle connects this handle to a horizontal mounting plate on the right. The mounting plate has a central bolt and nut assembly. To the right of the plate is a cylindrical component, likely a lock cylinder, with a keyhole on its side. The entire assembly is shown in a side-view cross-section.



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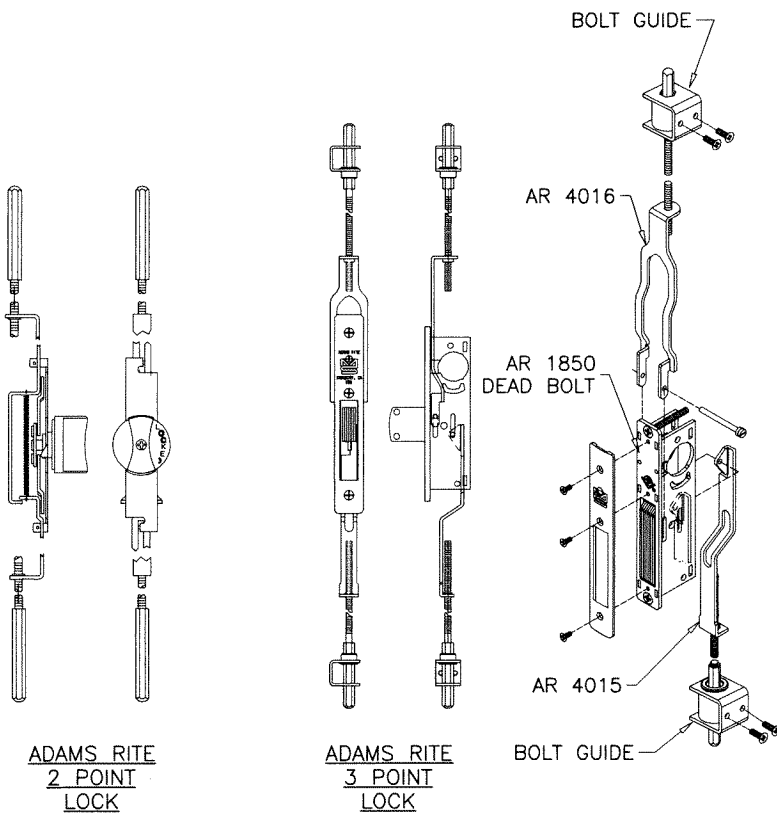
sheet 9 of 15

3 POINT LOCK

MAX. LEAF HEIGHT = 108 IN.
MAX. LEAF WIDTH = 37-1/2 IN.
MAX. DESIGN LOAD = 66 PSF

KEY OPERATED THREE POINT LOCK SYSTEM
MS1853A/4015/4016' AND 'MS1850S/4015/4016' BY 'ADAMS RITE'
WITH CONCEALED FLUSH BOLTS AT TOP &
BOTTOM OF LOCK STILE AND A THUMB TURN ON THE
INTERIOR, LOCATED AT 40" FROM BOTTOM OF PANEL
FASTENED WITH
(2) #12-24 X 1/2" FH MACHINE SCREWS

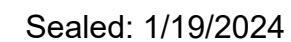
MANUALLY OPERATED TWO POINT LOCK SYSTEM
MS1881" AND "MS2180" BY "ADAMS RITE"
WITH CONCEALED FLUSH BOLTS AT TOP &
BOTTOM OF LOCK STILE AND A THUMB TURN ON THE
INTERIOR, LOCATED AT 40" FROM BOTTOM OF PANEL
FASTENED WITH
(2) #8-32 X 1/4" PH MACHINE SCREWS



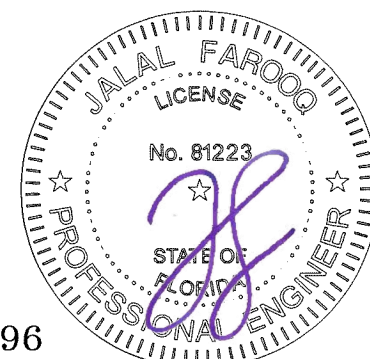
RIM PANIC EXIT DEVICES

MAX. LEAF HEIGHT = 96 IN.
MAX. LEAF WIDTH = 42 IN.
MAX. DESIGN LOAD = 50 PSF

RIM PANIC EXIT DEVICE
'98/99XP' BY 'VON DUPRIN'
'33A/35A' BY 'VON DUPRIN'
'FL3790' BY 'FIRST CHOICE'
'WS AD8500' BY 'SARGENT'
LOCATED AT 40" FROM BOTTOM
FASTENED TO ACTIVE LEAF WITH WITH
(6) 10-24 X 1-1/8" PH MS



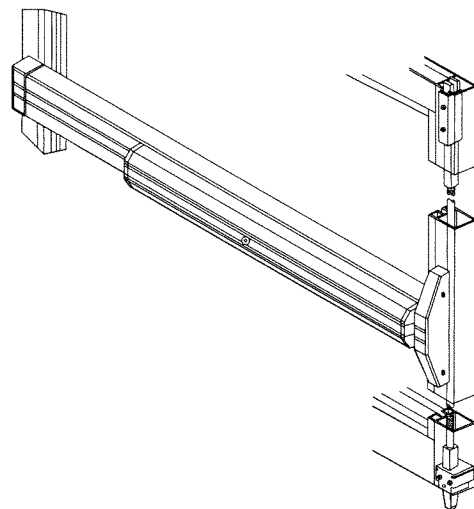
FL #29696

[illegible]

CVR PANIC EXIT DEVICES

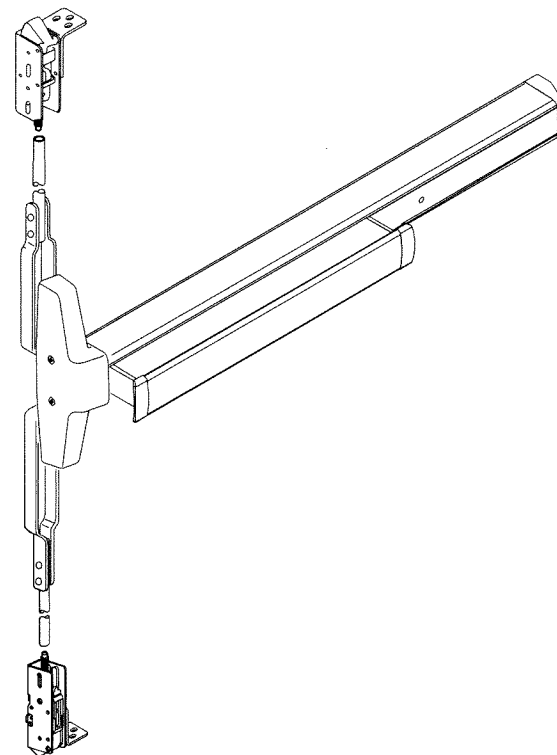
PANIC EXIT DEVICE

ACTIVE & INACTIVE LEAF:



PANIC EXIT DEVICE

ACTIVE & INACTIVE LEAF:



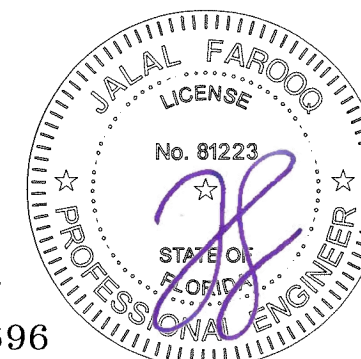
PANIC EXIT DEVICE

PANIC EXIT DEVICE

ACTIVE & INACTIVE LEAF:

Sealed: 1/19/2024

FL #29696



STANDARD ALUMINUM OUTSWING DOOR (L.M.I.)

TUBELITE INC.
3056 Walker Ridge
Walker, MI 49544
Tel. 800-866-2227 Fax.

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\19-41F-TLI

date: 05-10-19

scale: —

dr. by: TARIQ

chk. by:

revisions:

no	date	by description

drawing no. 19-41F

sheet 11 of 15

ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	E34224	1	DOOR FRAME HEAD (STANDARD)	6063-T6	-
1A	E4TB111	1	DOOR FRAME HEAD (NARROW)	6063-T6	-
1B	E34125	1	DOOR FRAME HEAD (CONCEALED CLOSERS)	6063-T6	-
1C	P4441	1	FRAME HEAD (CONCEALED CLOSERS) CORNER KEY	6063-T6	-
1D	E6504	1	HEAD (CONCEALED CLOSERS) DOOR STOP	6063-T6	-
1E	E2298	1	HEAD (CONCEALED CLOSERS) DOOR STOP COVER	6063-T6	-
2	E34144	2	DOOR FRAME JAMB (STANDARD)	6063-T6	-
2A	E4TB11	2	DOOR FRAME JAMB (NARROW)	6063-T6	-
3	E34242	2	JAMB SHEAR CLIP (STANDARD)	6063-T6	-
4	E3550	1	THRESHOLD	6063-T6	-
5	E0054	1/ LEAF	LEAF TOP RAIL (MEDIUM)	6063-T6	-
5A	E0318	1/ LEAF	LEAF TOP RAIL (WIDE)	6063-T6	-
6	E0419	1/ LEAF	BOTTOM RAIL	6063-T6	-
6A	E2682	1/ LEAF	BOTTOM RAIL	6063-T6	-
6B	E2669	1/ LEAF	BOTTOM RAIL	6063-T6	-
7	E0086	1/ LEAF	LEAF HINGE/LOCK STILE (MEDIUM)	6063-T6	-
7A	E0416	1/ LEAF	LEAF HINGE/LOCK STILE (WIDE)	6063-T6	-
8	E0085	1/ LEAF	LEAF ALT. HINGE/LOCK STILE (MEDIUM)	6063-T6	-
8A	E0415	1/ LEAF	LEAF ALT. HINGE/LOCK STILE (WIDE)	6063-T6	-
9	E0087	1/ LEAF	LEAF ACTIVE STILE (MEDIUM)	6063-T6	-
9A	E0417	1/ LEAF	LEAF ACTIVE STILE (WIDE)	6063-T6	-
10	E1150	1/ LEAF	LEAF INACTIVE STILE (MEDIUM)	6063-T6	-
10A	E1151	1/ LEAF	LEAF INACTIVE STILE (WIDE)	6063-T6	-
11	E3256	AS REQD.	MID RAIL	6063-T6	OPTIONAL
11A	E3261	AS REQD.	MID RAIL	6063-T6	OPTIONAL
11B	E3258	AS REQD.	MID RAIL	6063-T6	OPTIONAL
11C	E3262	AS REQD.	MID RAIL	6063-T6	OPTIONAL
11D	E3266	AS REQD.	MID RAIL	6063-T6	OPTIONAL
11E	E3263	AS REQD.	MID RAIL	6063-T6	OPTIONAL
11F	E3265	AS REQD.	MID RAIL	6063-T6	OPTIONAL
12	E6510	AS REQD.	DOOR STOP BASE (STANDARD)	6063-T6	-
12A	E6500	AS REQD.	DOOR STOP BASE (NARROW)	6063-T6	-
13	E6505	AS REQD.	DOOR STOP (STANDARD)	6063-T6	-
13A	E6501	AS REQD.	DOOR STOP (NARROW)	6063-T6	-
14	E1152	AS REQD.	ASTRAGAL W'STRIP ADAPTER	6063-T6	-
15	E6533	4/ LEAF	EXTERIOR GLASS STOP (LAM. GLASS)	6063-T6	-
16	E6523	4/ LEAF	EXTERIOR GLASS STOP (INSUL. LAM. GLASS)	6063-T6	-
17	E6532	4/ LEAF	INTERIOR GLASS STOP (DRY GASKET)	6063-T6	-
18	E6512	4/ LEAF	INTERIOR GLASS STOP (GLAZING TAPE)	6063-T6	-
19	E6522	4/ LEAF	INTERIOR GLASS STOP (SILICONE)	6063-T6	-
20	P2908	4/ LEAF	EXTERIOR GLAZING GASKET (LEVEL D IMPACT)	EPDM	-
20A	P2901	4/ LEAF	EXTERIOR GLAZING GASKET (LEVEL E IMPACT)	EPDM	-
21	P0017	4/ LEAF	INTERIOR GLAZING GASKET	EPDM	-
22	3M VHB	4/ LEAF	INTERIOR GLAZING TAPE (.090" X .750")	FOAM	-
23	P6552	4/ LEAF	INTERIOR SPACER TAPE	FOAM	-
25	P1912	2/ LITE	SETTING BLOCK AT 6" FROM ENDS	EPDM	DUROMETER 80±5 SHORE A
26	P6296	AS REQD.	FRAME HEAD/JAMB BULB W'STRIPPING	VINYL	-
27	P3450	AS REQD.	FRAME SILL BULB W'STRIPPING	VINYL	-
28	P938	AS REQD.	ASTRAGAL PILE W'STRIPPING	WOOL	ULTRAFAB
29	#10 X 5/8"	AS REQD.	ASTRAGAL ADAPTER FASTENERS, AT 12" O.C.	ST. STEEL	FH SELF DRILLING SCREWS
30	#10 X 1/2"	AS REQD.	GLASS STOP FASTENERS, AT 2" FROM ENDS & 12" O.C.	ST. STEEL	FH SELF DRILLING SCREWS
31	#12 X 1-1/2"	AS REQD.	FRAME ASSEMBLY FASTENERS	ST. STEEL	HH SELF DRILLING SCREWS
-	-	-	-	-	-



Sealed: 1/19/2024

FL #29696

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TUBELITE INC.
3056 Walker Ridge Dr. N.W., Suite G
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revisions:

no	date	by	description

date: 05-10-19

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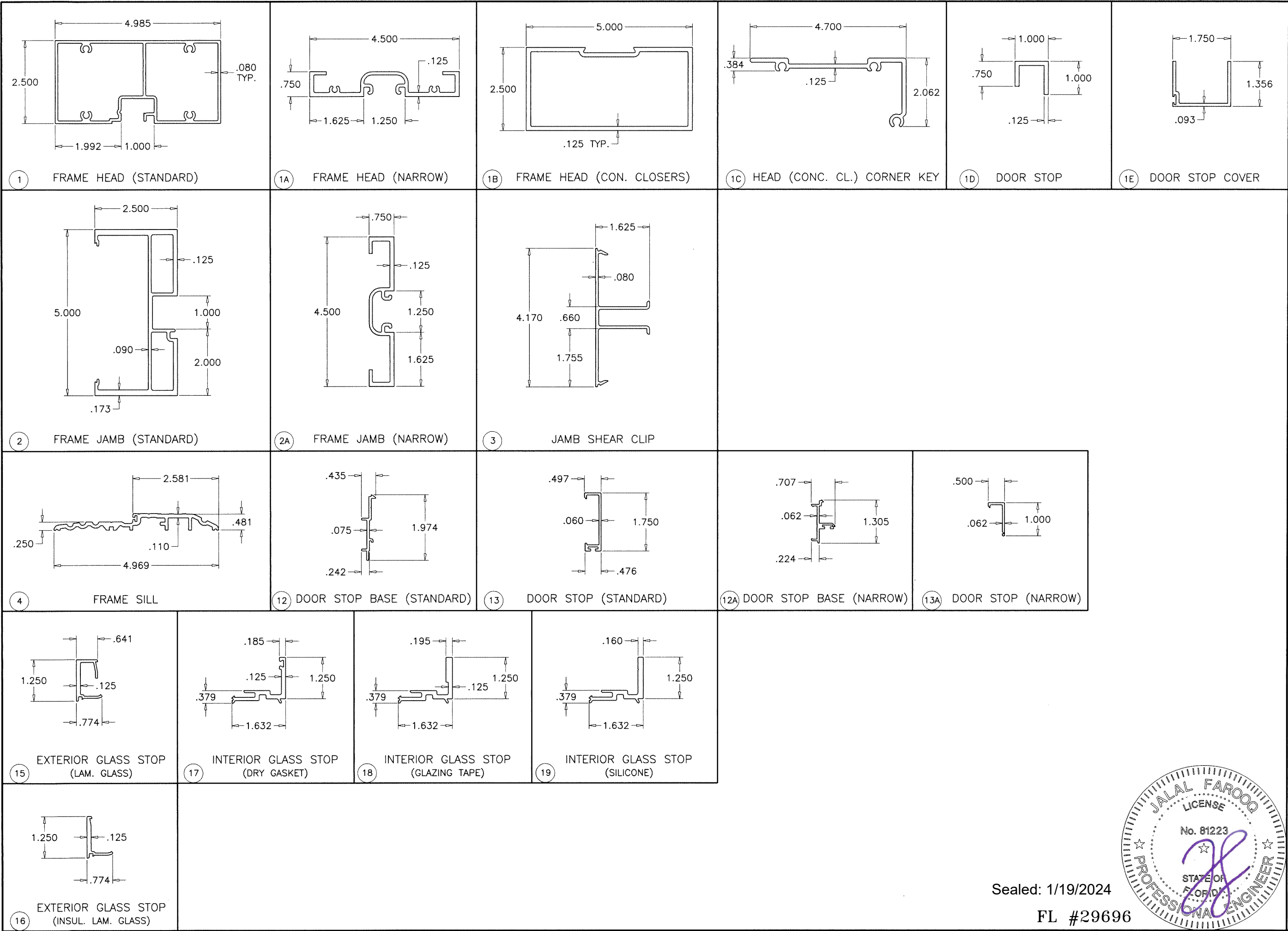
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chk. by:

drawing no.

19-41F

sheet 12 of 15



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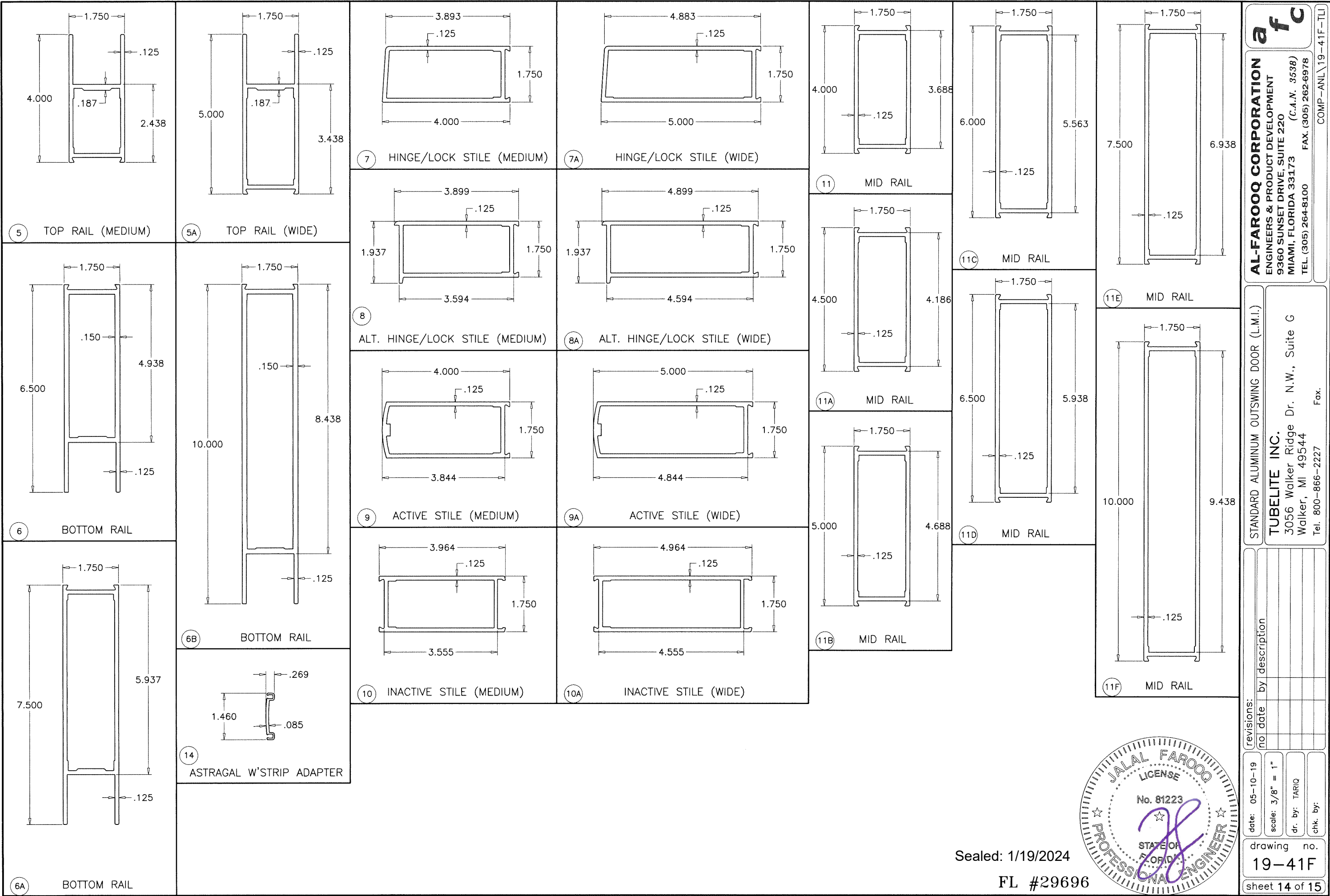
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19-41F

sheet 13 of 15

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FL #29696

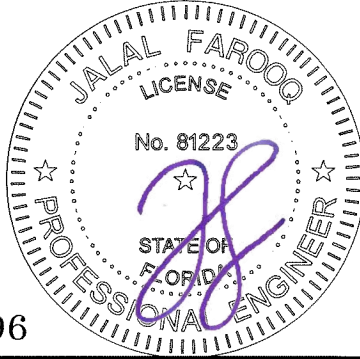




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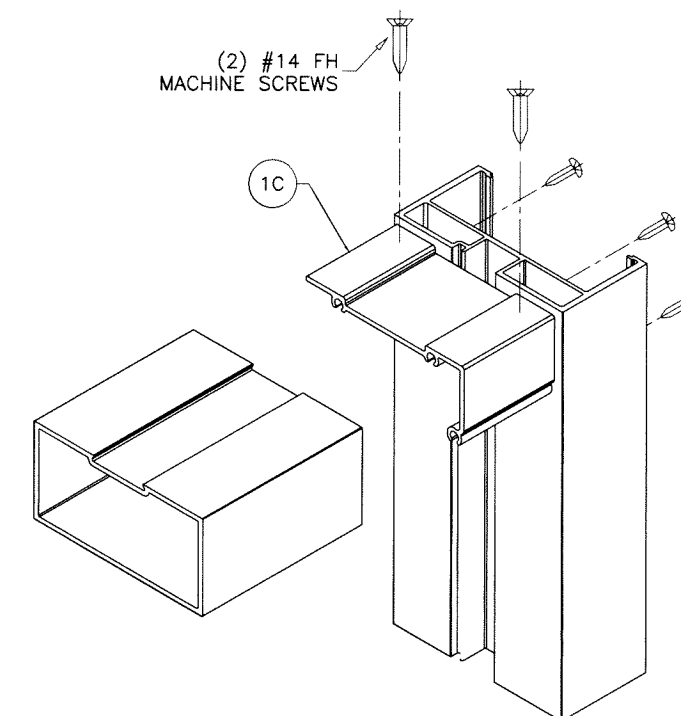
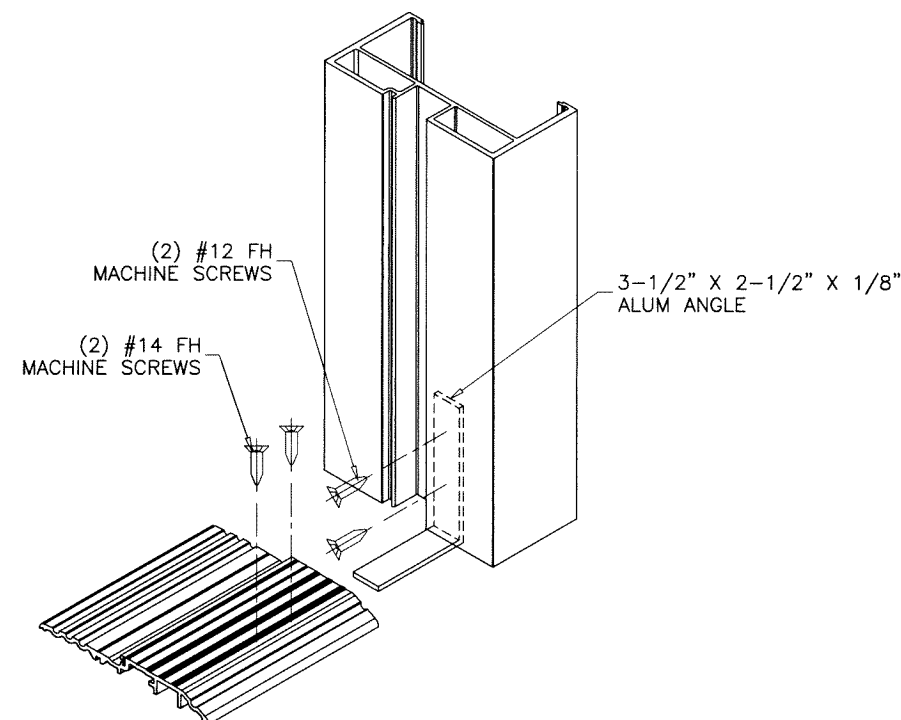
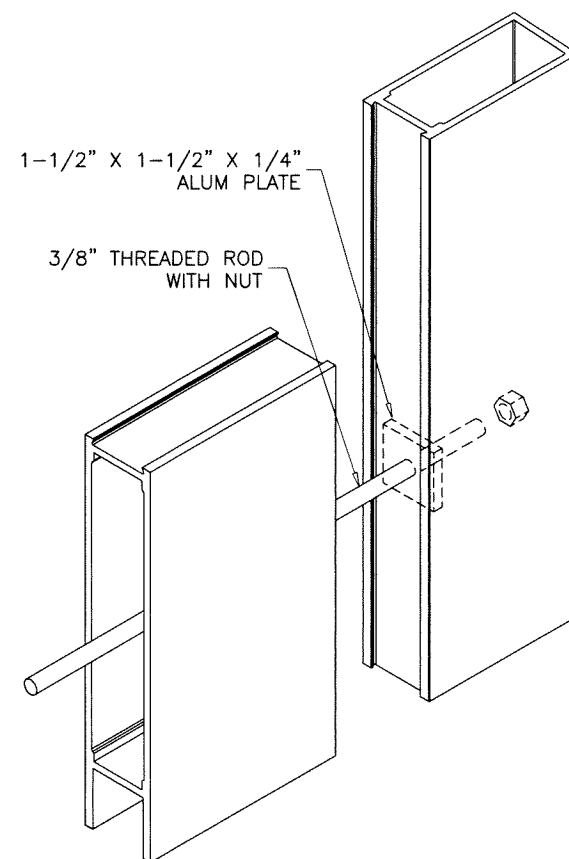
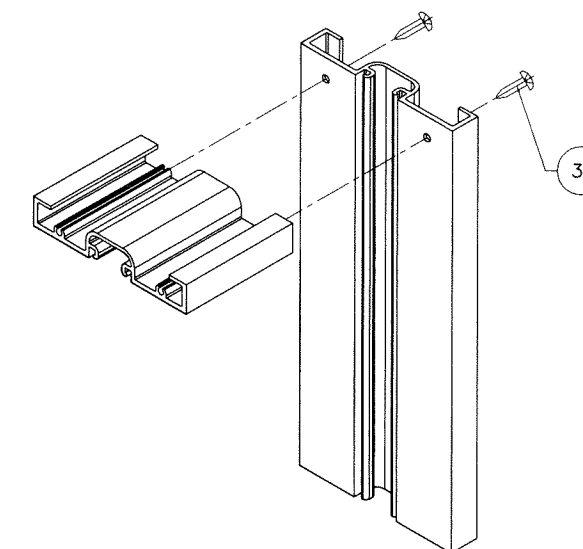
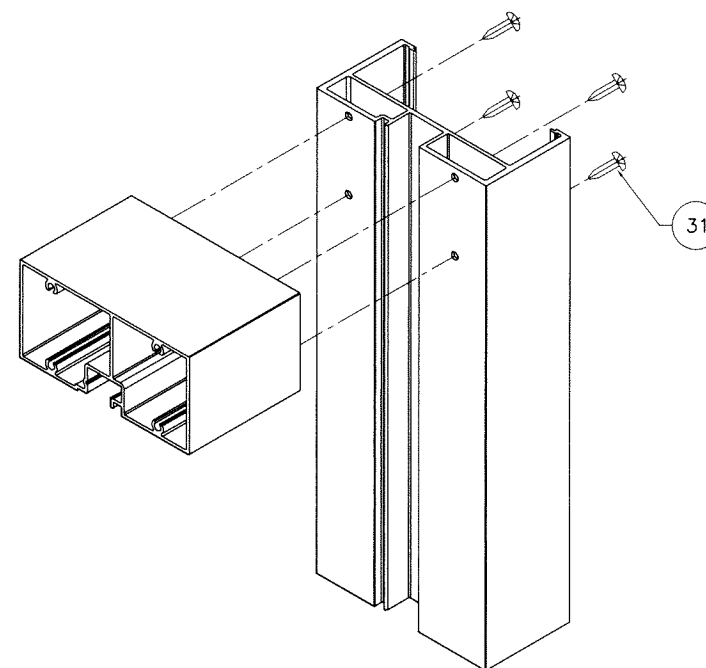
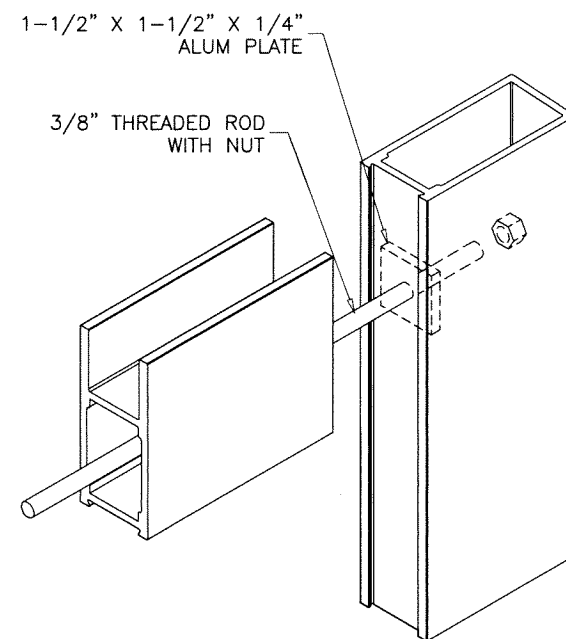
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drawing no.		19-41F		sheet 14 of 15			



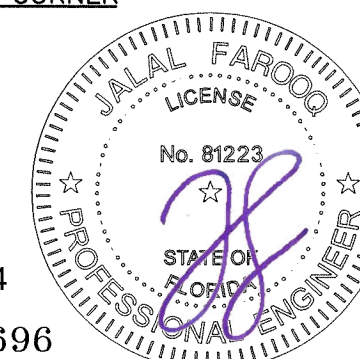
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STANDARD ALUMINUM OUTSWING DOOR (L.M.I.)

STANDARD ALUMINUM
TUBELITE INC.

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3056 Walker Ridge Dr. N.W., Suite G

JOJO WUKER Kladge
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Tel. 800-866-2227

Fax:

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dr. by: TARIQ			
chk. by:			

drawing no. **19-41F**

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