

INSTRUCTIONS:

USE DRAWING AS FOLLOWS.

1. SELECT SINGLE OR DOUBLE DOORS FROM SHEET 2 OR SINGLE OR DOUBLE DOORS WITH TRANSOM FROM SHEET 3.
2. SELECT DOOR AND FRAME SIZE.
3. DETERMINE Dp RATING FROM SHEET 2 OR 3.
4. SELECT GLASS TYPE A OR A1 FROM SHEET 1.
5. SELECT LOCK OPTION AND CORRESPONDING MAX. SIZES FROM SHEET 8.
6. SELECT ANCHORING CONDITION AND CORRESPONDING ANCHOR TYPES FROM SHEETS 4 THRU 7.

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

SERIES 800 COMMERCIAL ALUMINUM OUT-SWING DOOR

DOORS CAN ALSO BE USED WITH ECO WINDOW'S F.B.C. APPROVED SERIES 400 WINDOW WALL SYSTEM (UNDER SEPARATE APPROVAL). FOR DOORS WITH WINDOW WALL SYSTEM SEE SEPARATE APPROVAL FOR DOOR MULLION CAPACITY AND ANCHORING REQUIREMENTS. THE LOWEST VALUE RESULTING FROM DOOR CAPACITY OR WINDOW WALL APPROVAL WILL APPLY TO ENTIRE SYSTEM.

DOORS APPROVED FOR INSTALLATIONS WHERE WATER INFILTRATION RESISTANCE IS REQUIRED, SEE SHEET 4 FOR LIMITATIONS.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2017 (6TH EDITION)/2020 (7TH 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.

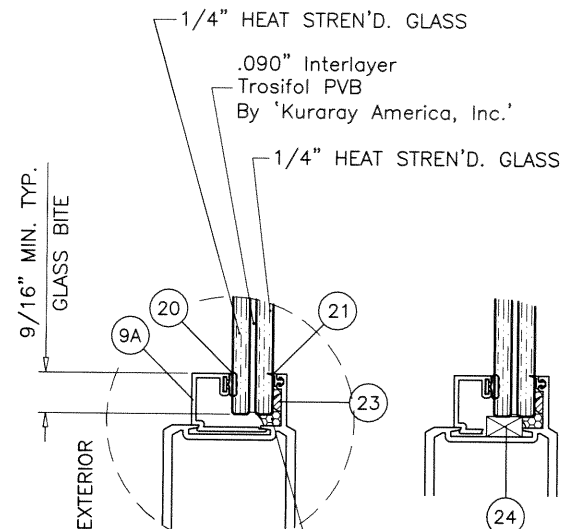
ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2017/2020 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

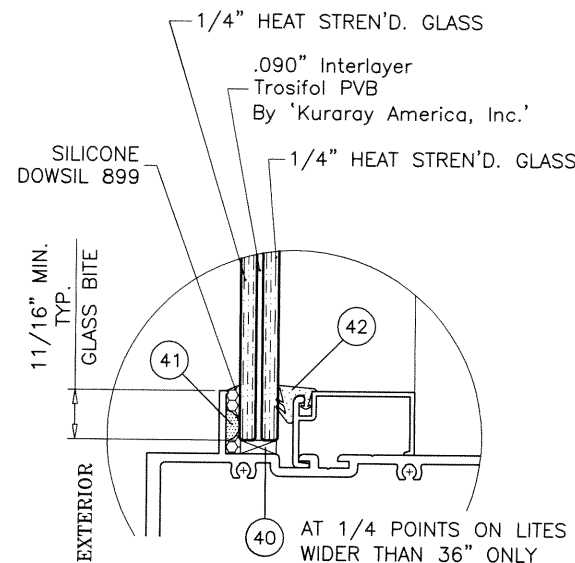
THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC. CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY,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

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

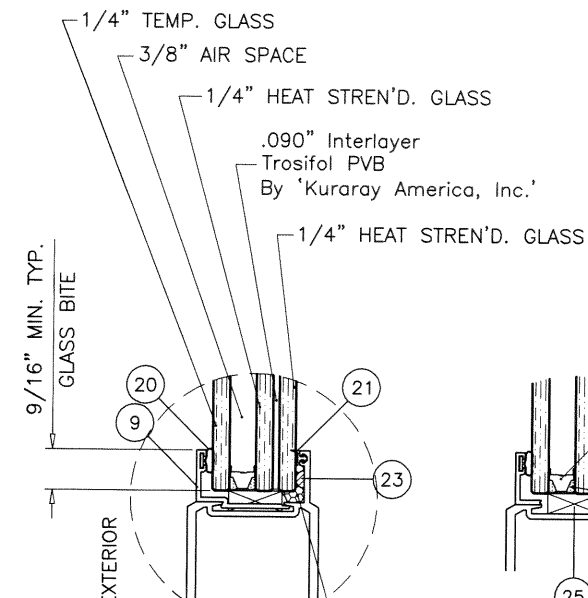
MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE. LABELING TO COMPLY WITH SECTION 1709.9.2.



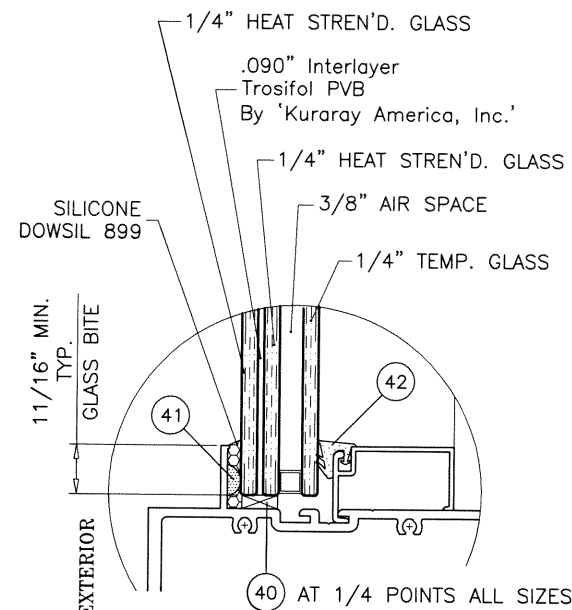
DOOR LEAF
GLASS TYPE 'A'



TRANSOM
GLASS TYPE 'A'



DOOR LEAF
GLASS TYPE 'A1'



TRANSOM
GLASS TYPE 'A1' (REVERSE)

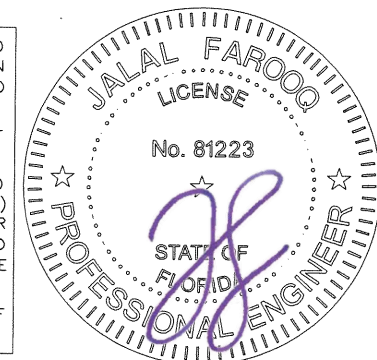
GLAZING OPTIONS

- 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.

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

Sealed: 10/13/2020

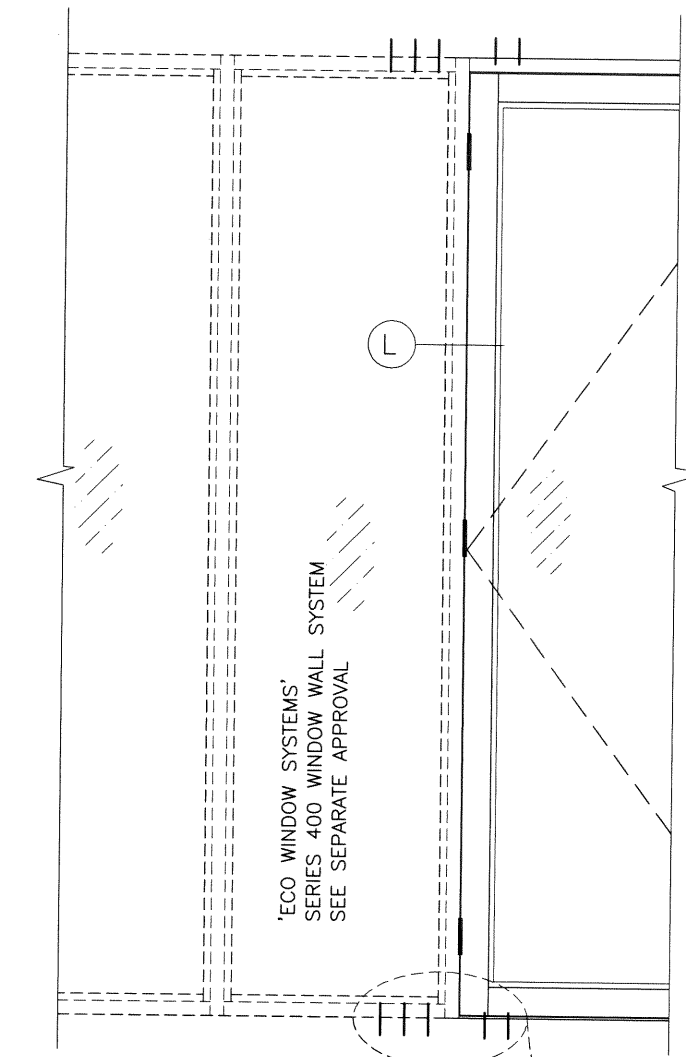
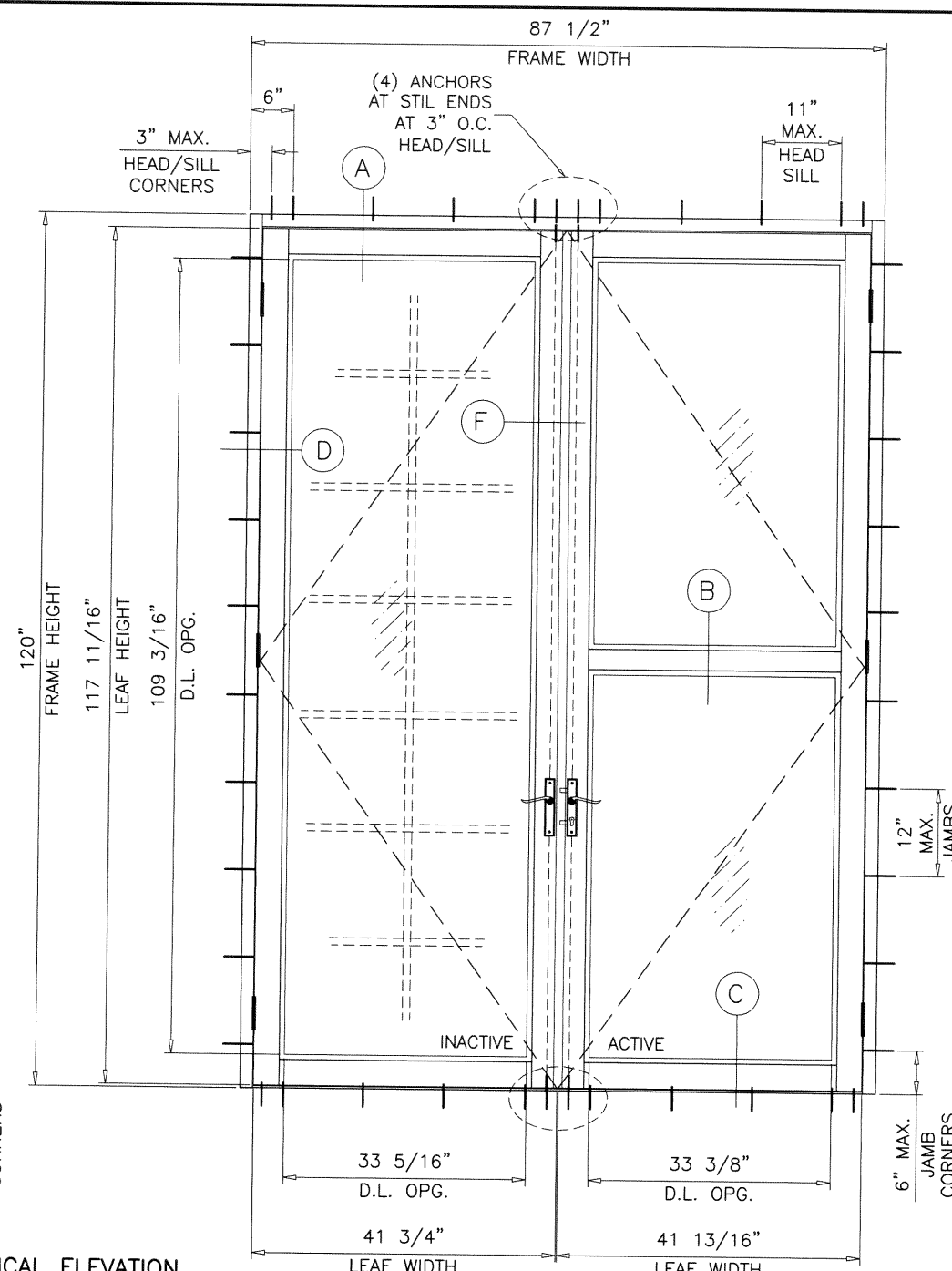
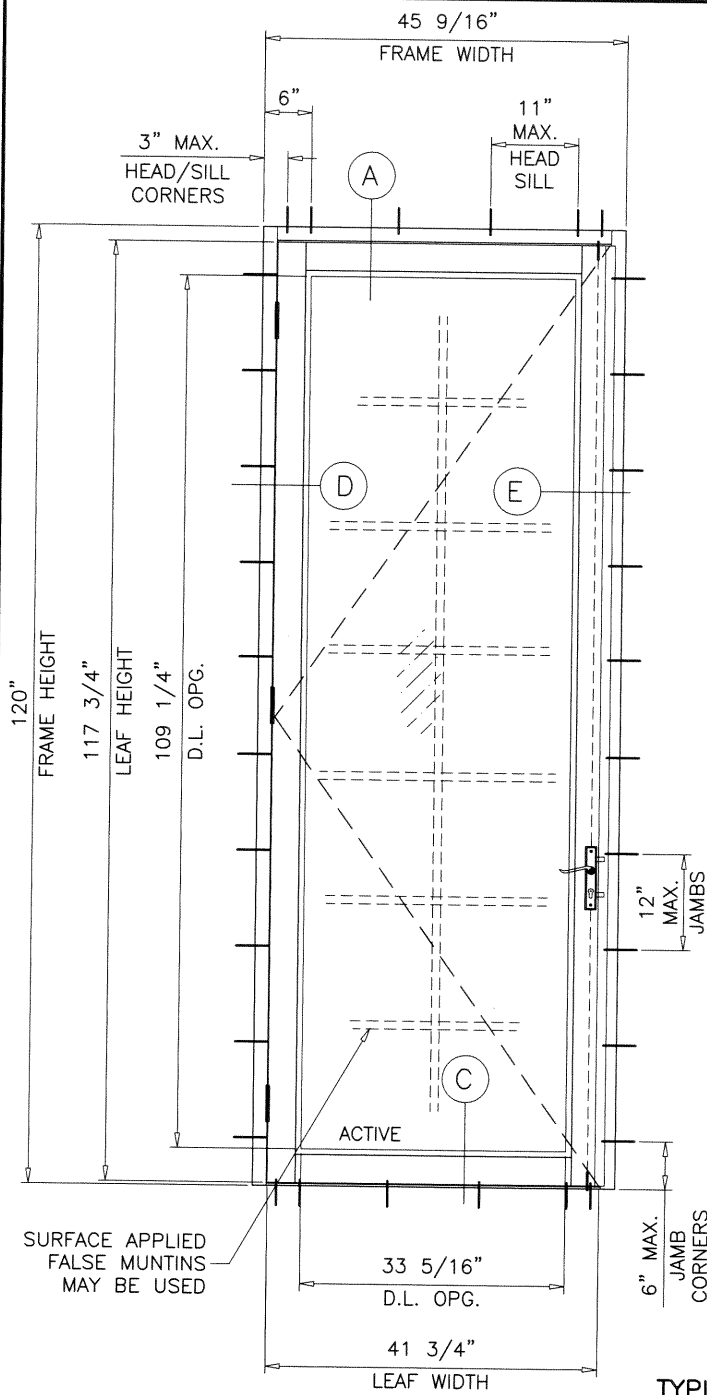
FL #21469



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AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\W16-78ECO

SERIES 800 COMMERCIAL ALUM OUTSWING DOOR (L.M.I.)
ECO WINDOW SYSTEMS, LLC.
9114 N.W. 106 STREET
MEDLEY, FL. 33178
TEL. (305) 885-5299 FAX (305) 885-5902

revisions:		description	
no	date	by	
A	11.28.17		UPDATED TO 2017 FBC
B	09.30.20		UPDATED TO 2020 FBC
date: 11-30-16		scale: 3/8" = 1"	
		dr. by: TARIQ	
		chk. by:	
drawing no.		W16-78	
sheet		1 of 12	



TYPICAL ELEVATION

SINGLE DOORS LOAD CAPACITY - PSF					
DOOR DIMS.		LOCK OPTIONS			
		#1 & #2		#3	
FRAME WIDTH	FRAME HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
42-9/16"	108"	80.0	80.0	80.0	80.0
45-9/16"	120"	70.0	70.0	-	-

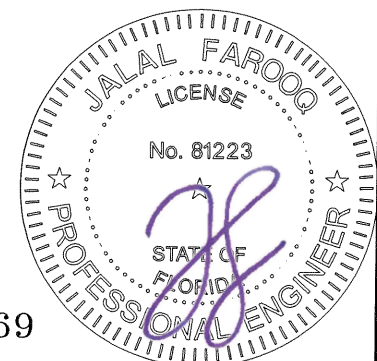
DOUBLE DOORS LOAD CAPACITY - PSF					
DOOR DIMS.		LOCK OPTIONS			
		#1 & #2		#3	
FRAME WIDTH	FRAME HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
81-1/2"	108"	80.0	80.0	80.0	80.0
87-1/2"	120"	70.0	70.0	-	-

SEE SHEET 4 FOR WATER INFILTRATION RESISTANCE LIMITS

GLASS D.L.O. FORMULAE: (DOOR)
D.L.O. WIDTH = FRAME WIDTH - 12.250" (X DOORS)
= (FRAME WIDTH - 20.875")/2 (XX DOORS)
D.L.O. HEIGHT (ADA THRESHOLD) = FRAME HEIGHT - 10.750" (4-1/4" BOTTOM RAIL)
= FRAME HEIGHT - 16.500" (10" BOTTOM RAIL)
DOOR LEAF HEIGHT = FRAME HEIGHT - 2.250"

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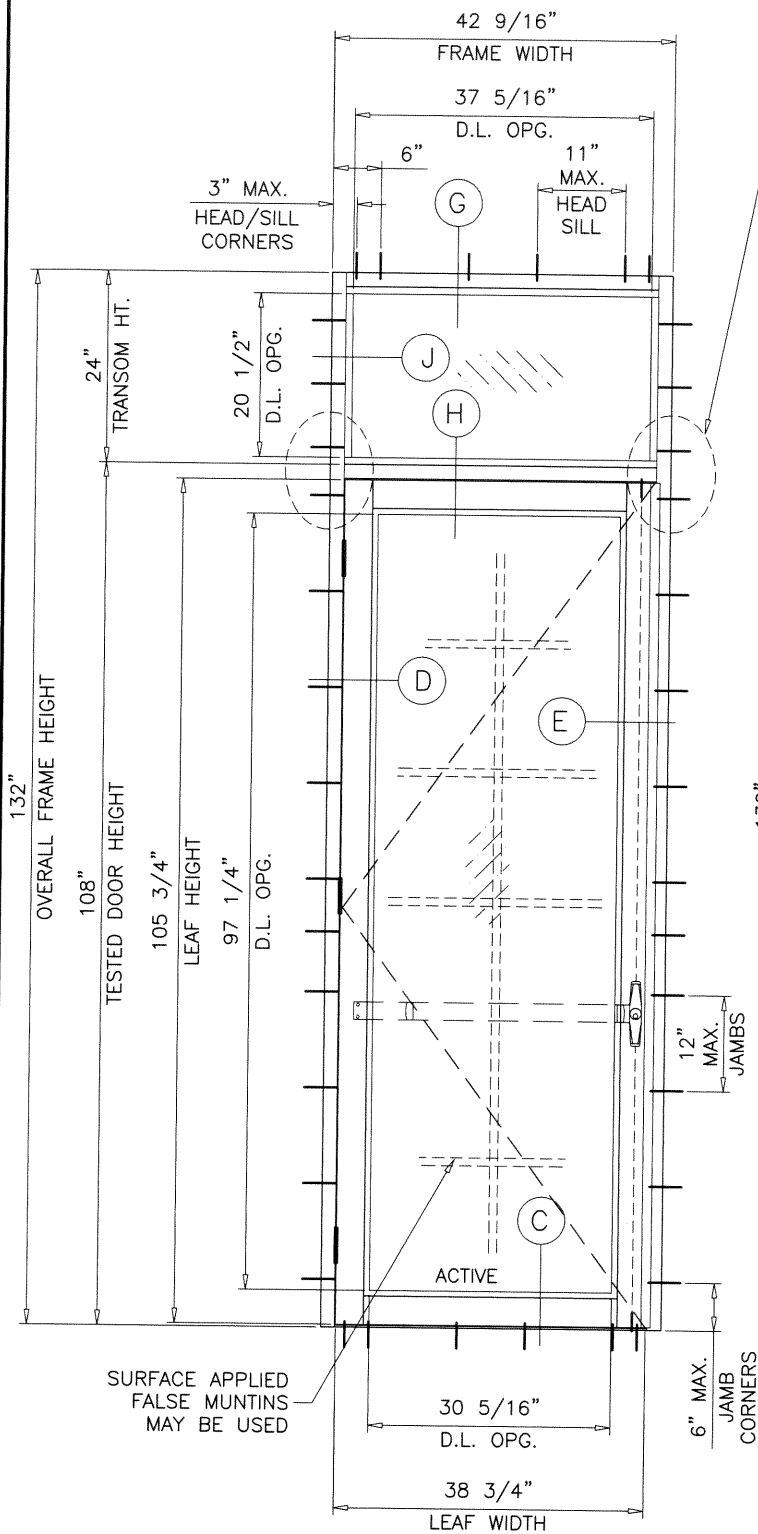
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no	date	by	description

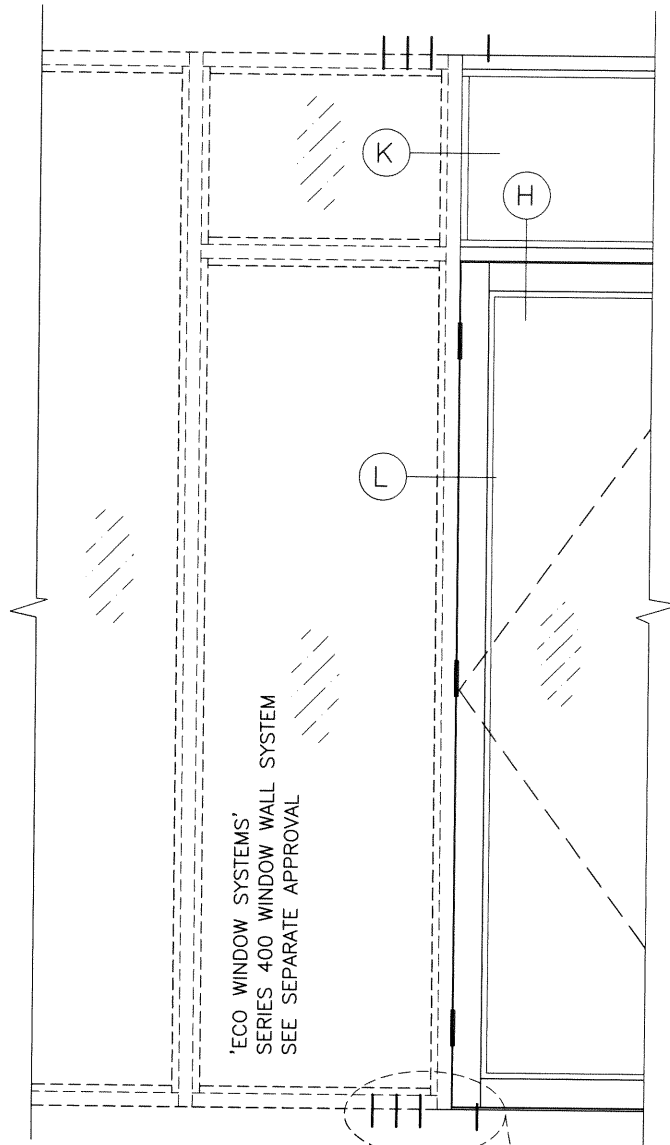
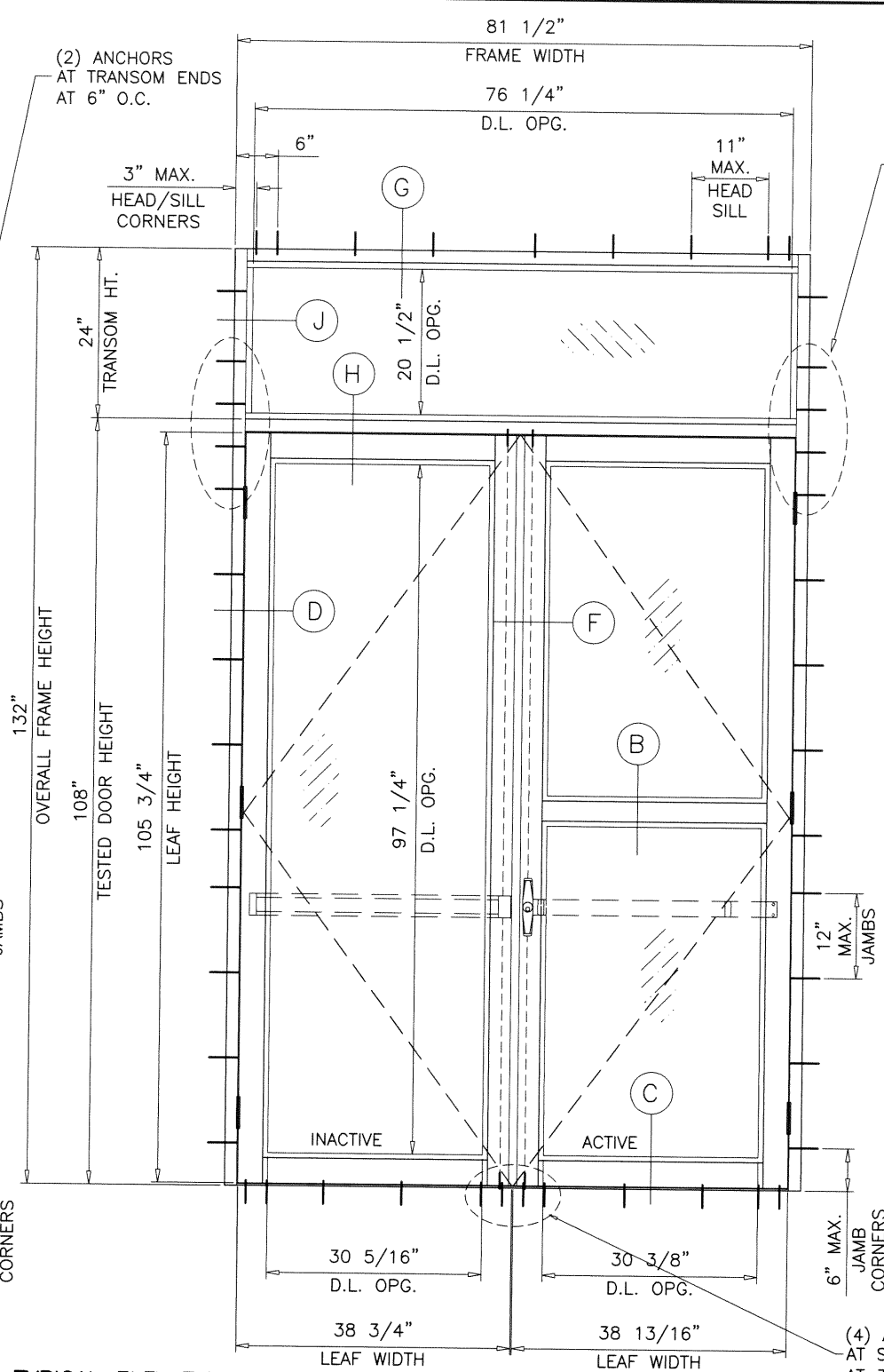
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dr. by: TARIQ
chk. by:

drawing no.
W16-78

sheet 2 of 12



TYPICAL ELEVATION



ANCHORS AT DOOR MULLION SEE SEPARATE APPROVAL TO BE REVIEWED BY BLDG. OFFICIAL

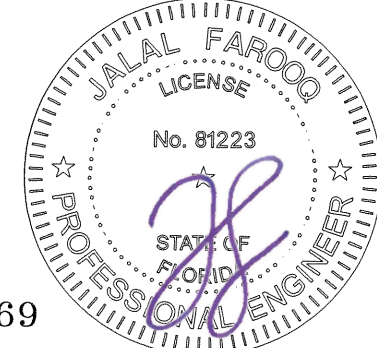
SINGLE DOORS WITH TRANSOM LOAD CAPACITY - PSF						
DOOR DIMS.			LOCK OPTIONS			
			#1 & #2		#3	
FRAME WIDTH	DOOR HEIGHT	TRANSOM HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
42-9/16"	108"	24"	70.0	80.0	70.0	80.0
45-9/16"	120"	12"	70.0	70.0	-	-

DOUBLE DOORS WITH TRANSOM LOAD CAPACITY - PSF						
DOOR DIMS.			LOCK OPTIONS			
			#1 & #2		#3	
FRAME WIDTH	DOOR HEIGHT	TRANSOM HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
81-1/2"	108"	24"	70.0	80.0	70.0	80.0
81-1/2"	120"	12"	70.0	70.0	-	-

GLASS D.L.O. FORMULAE: (TRANSOM)
D.L.O. WIDTH = FRAME WIDTH - 5.250"
D.L.O. HEIGHT = TRANSOM HEIGHT - 5.250"

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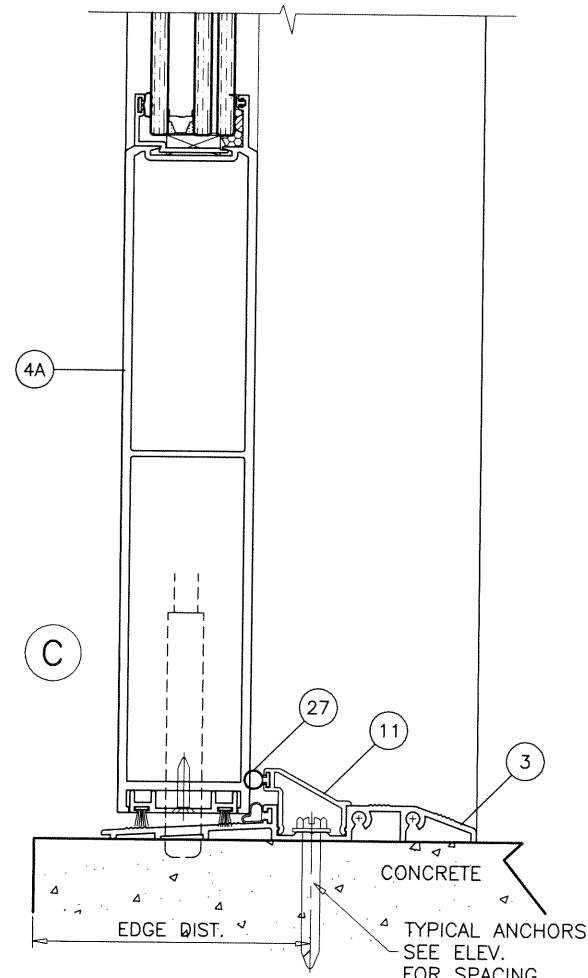
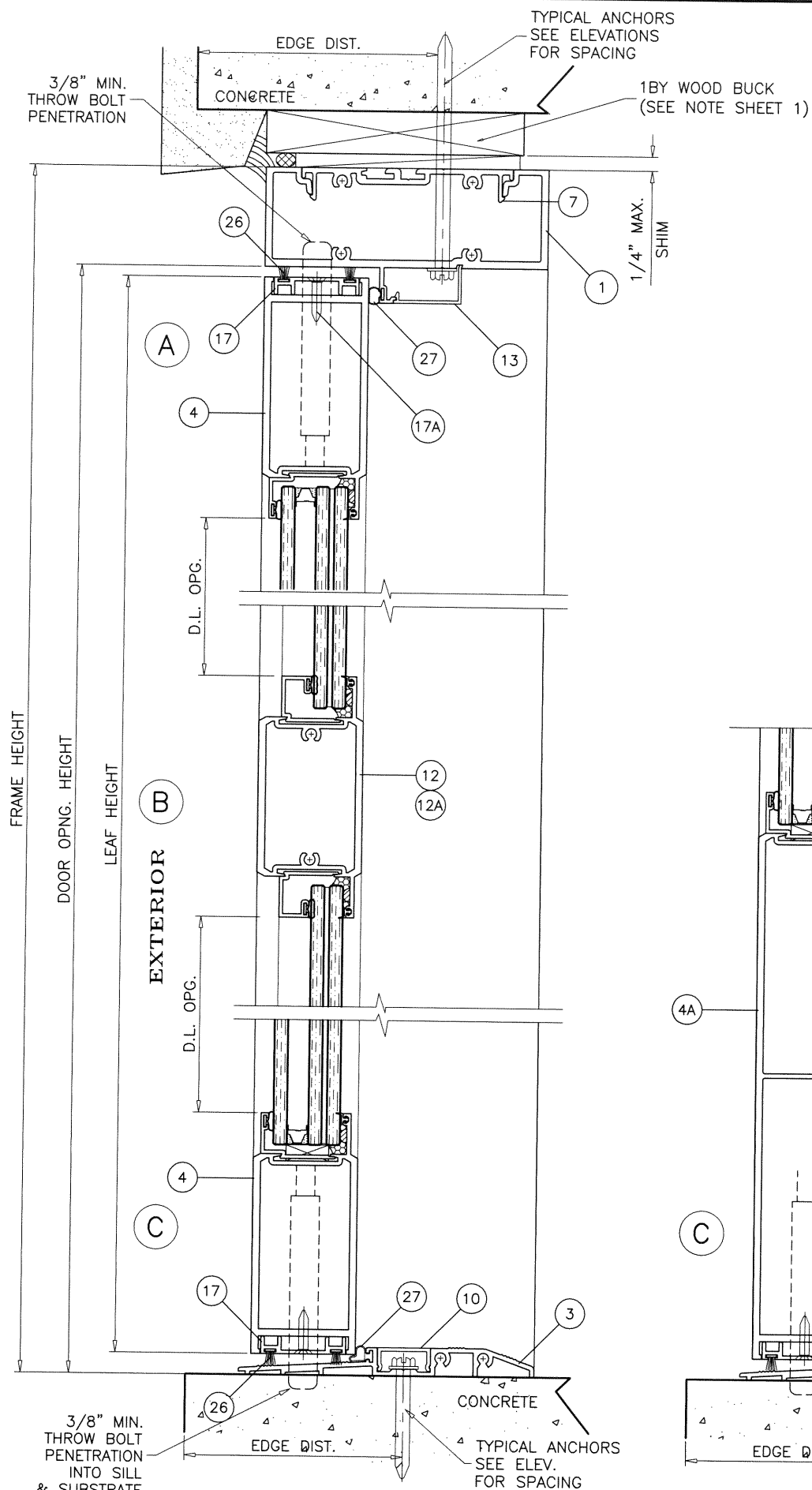
FL #21469



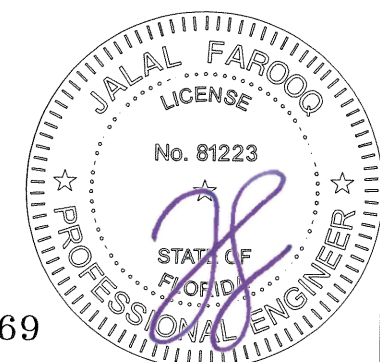
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date:	11-30-16	scale:	1/2"=1'-0"	
dr. by:	TARIQ	chk. by:		
drawing no.	W16-78	sheet	3 of 12	



NOTE:
DOORS WITH ADA THRESHOLD AND HEIGHTS GREATER THAN 108"
ARE NOT RATED FOR WATER INFILTRATION RESISTANCE.



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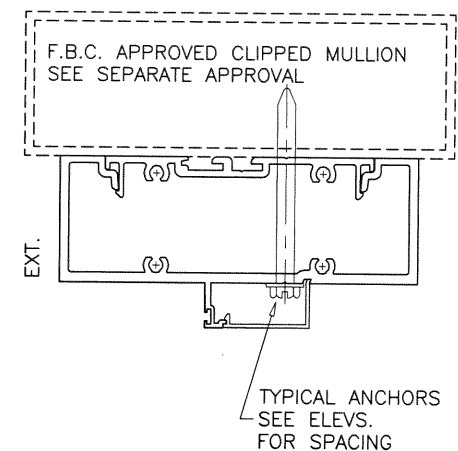
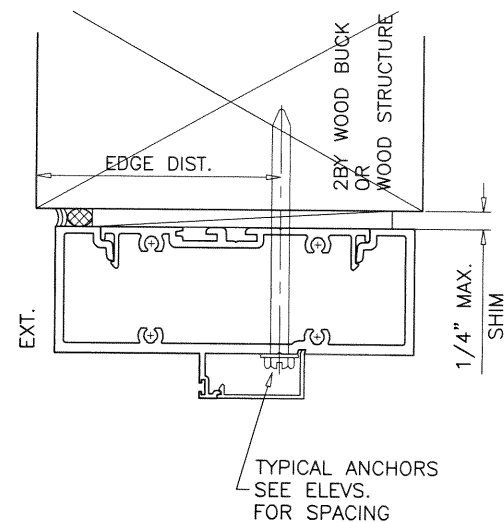
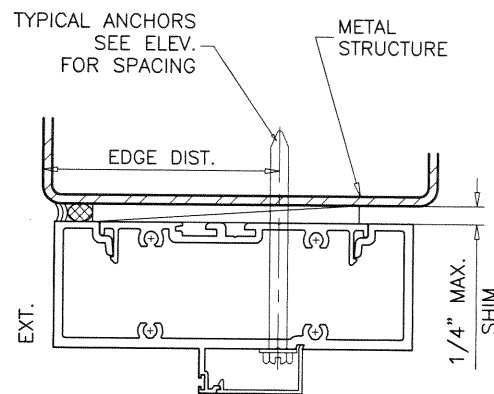
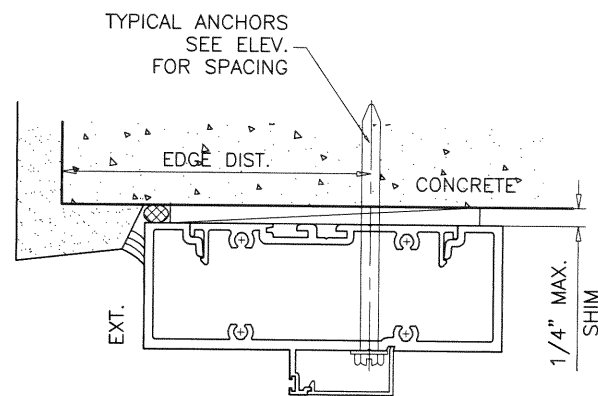
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dr. by: TARIQ		
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drawing no.
W16-78

sheet 4 of 12



WOOD BUCKS AND METAL STRUCTURE NOT BY 'ECO WINDOWS' 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/JAMBS)

THRU 1BY BUCKS INTO CONC. OR BLOCKS
1-1/4" MIN. EMBED INTO CONCRETE (HEAD/JAMBS)
1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)

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

#14 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)

INTO MIAMI-DADE COUNTY APPROVED MULLIONS
OR
INTO METAL STRUCTURES (HEAD/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)

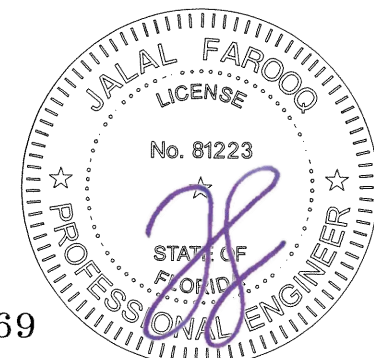
TYPICAL EDGE DISTANCE

INTO CONCRETE AND BLOCKS = 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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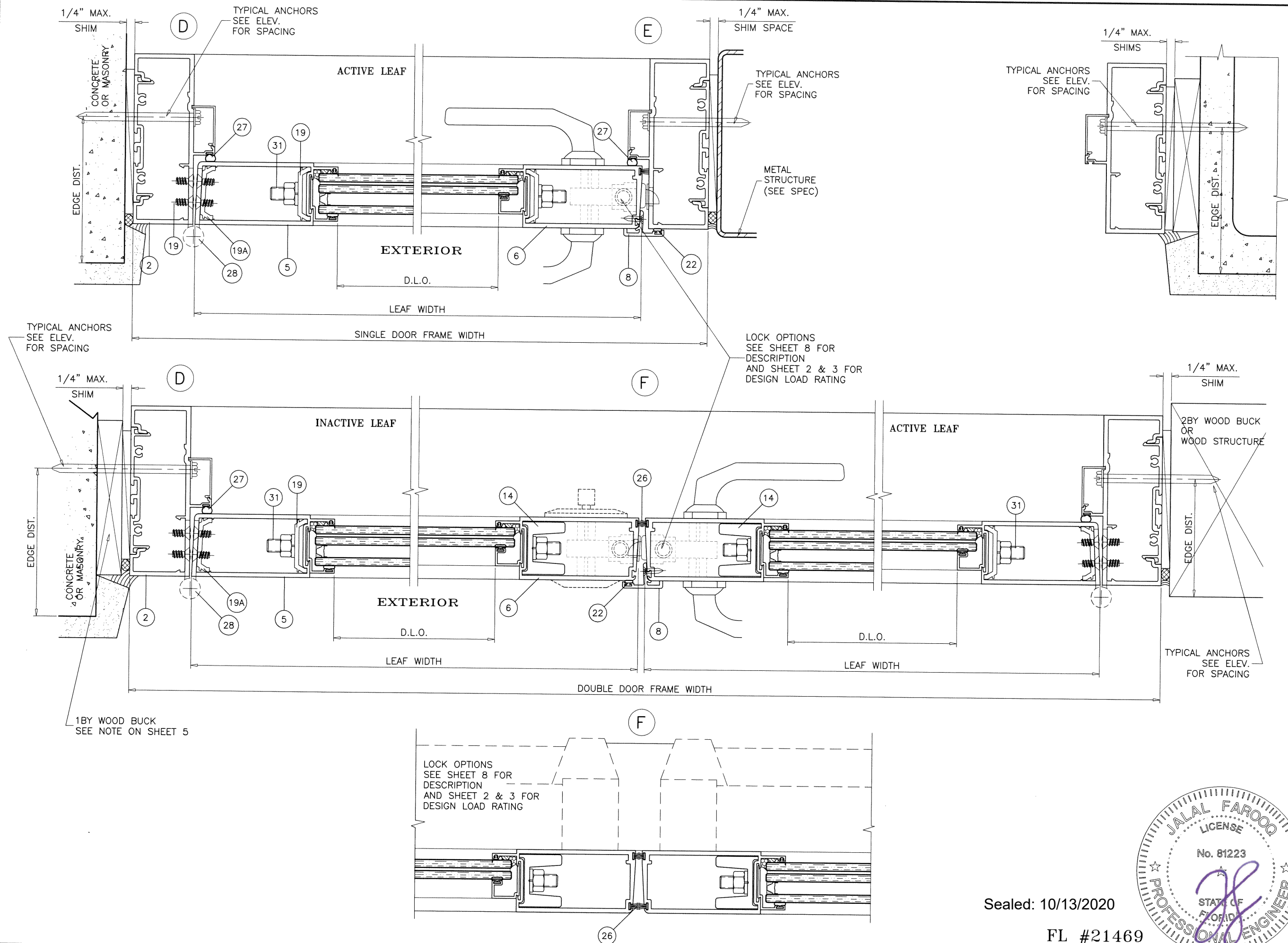
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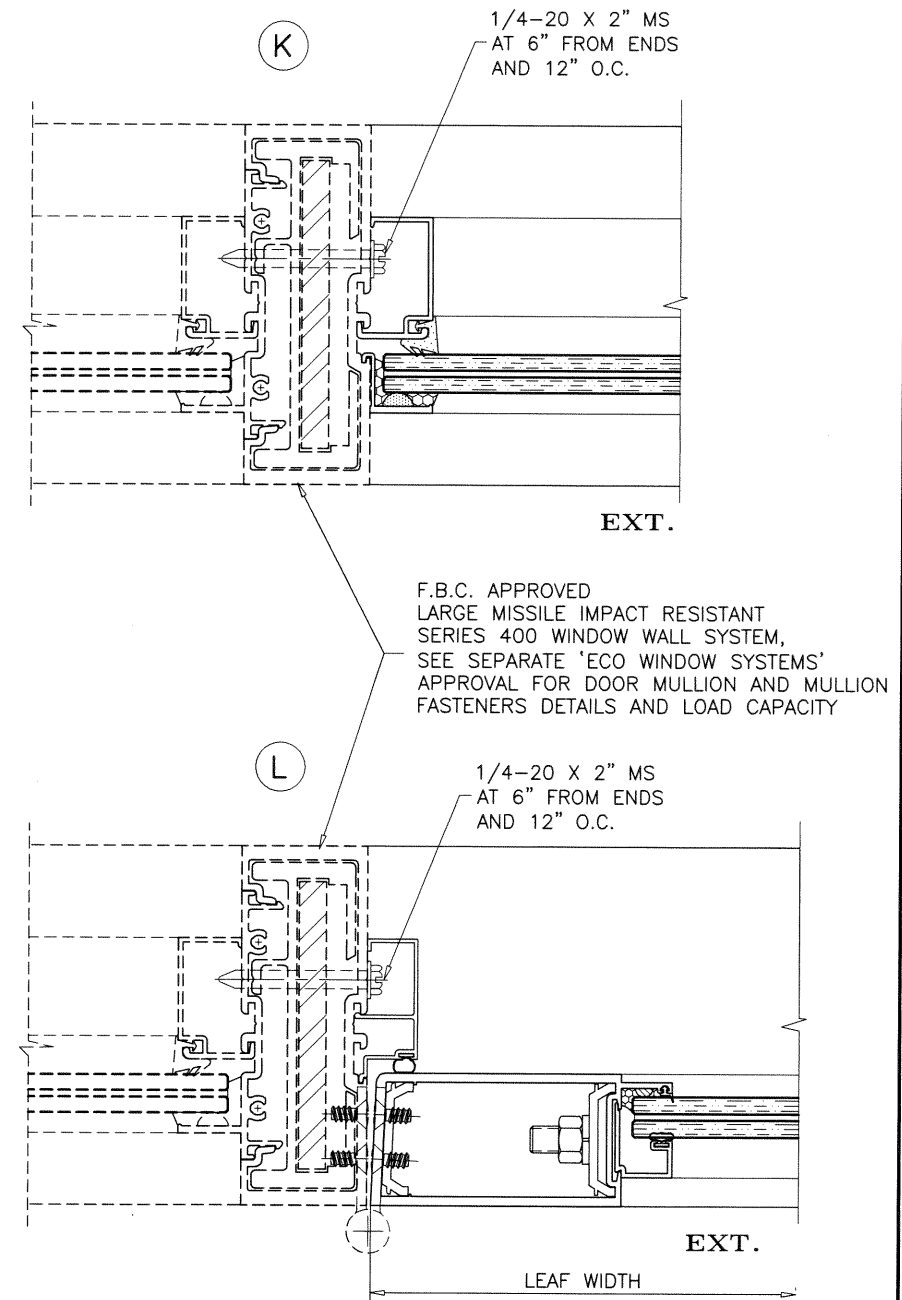
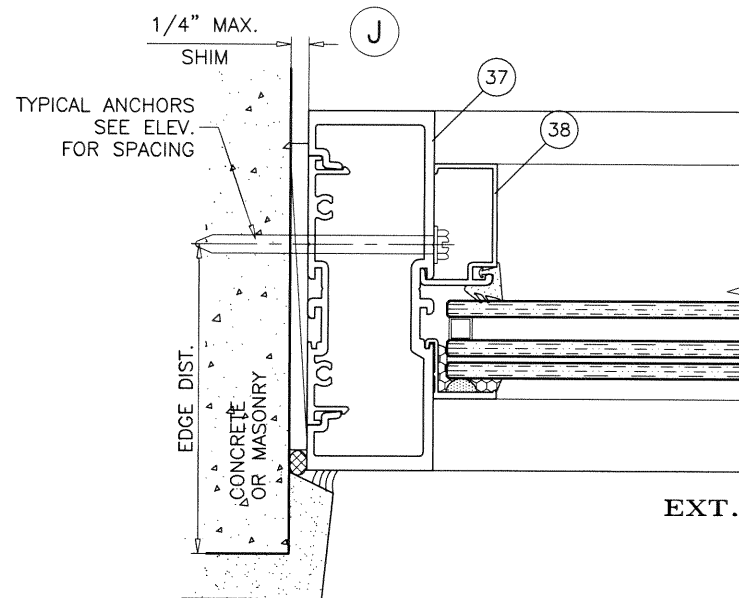
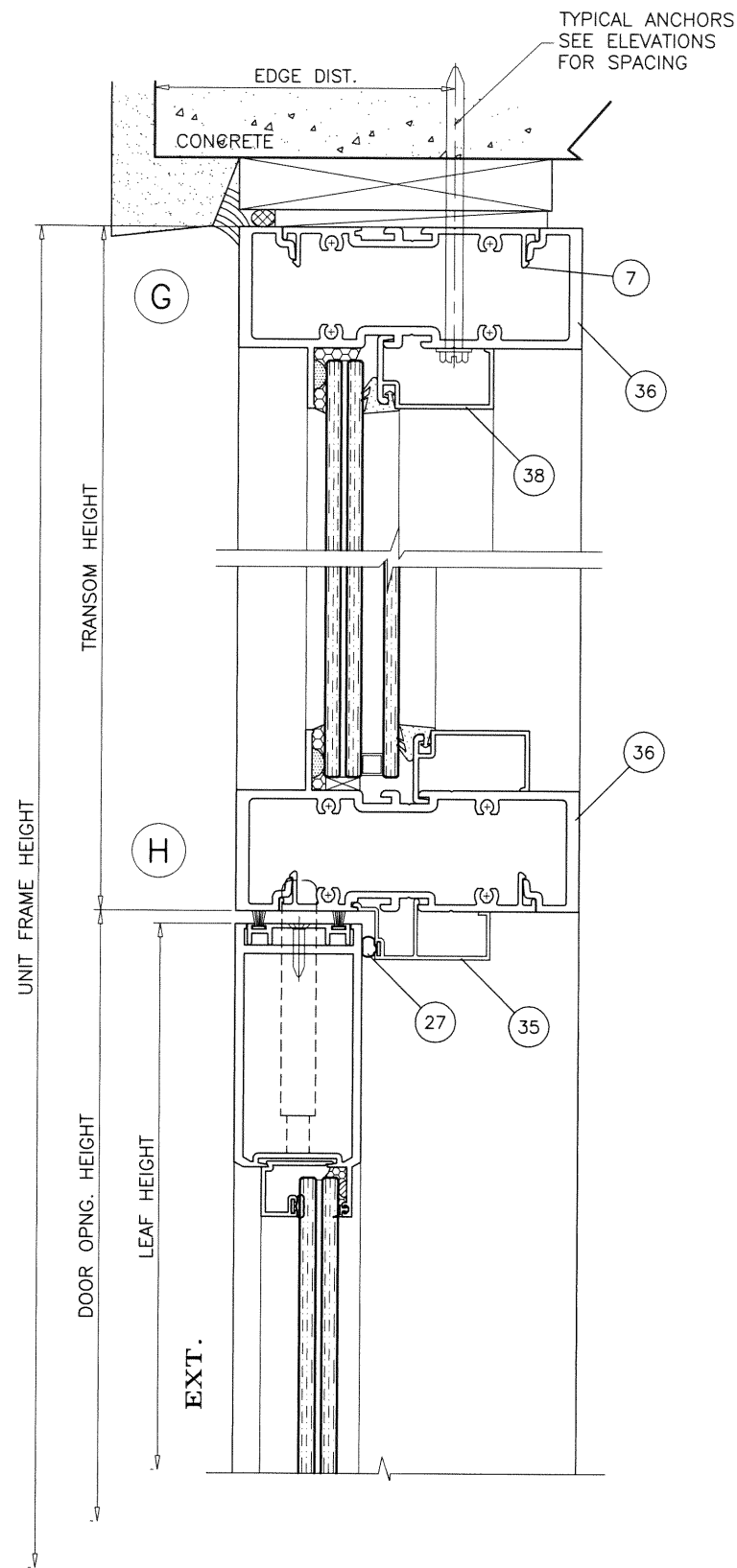
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W16-78
sheet 5 of 12

COMP-ANL W16-78ECO



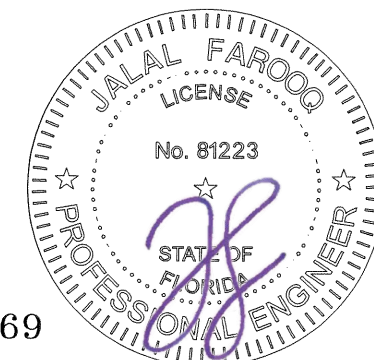
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chk. by:

drawing no.
W16-78

sheet 7 of 12

OPTION #1

ACTIVE LEAF:

INACTIVE LEAF:

The diagrams illustrate the operation of double doors. The left diagram shows the doors in an open position, with the left door labeled 'ACTIVE' and the right door labeled 'INACTIVE'. The right diagram shows the doors in a closed position, with both doors labeled 'ACTIVE'. Dimensions are indicated: 'LEAF WIDTH' for the width of a single door leaf and 'FRAME HEIGHT' for the total height of the door frame assembly.

4-1/2" LONG FLUSH MOUNT STEEL BUTT HINGES BY 'REGENT'
(3) PER LEAF
(1) AT 9" FROM TOP TO CL OF HINGE
(1) AT 7-1/4" FROM BOTTOM TO CL OF HINGE
CENTER HINGE EQUALLY SPACED FROM TOP & BOTTOM HINGE
FASTENED WITH 1/4-20 X 1/2" FH MACHINE SCREWS
FOUR PER HASP(LEAF).

ACTIVE LEAF:

INACTIVE LEAF:

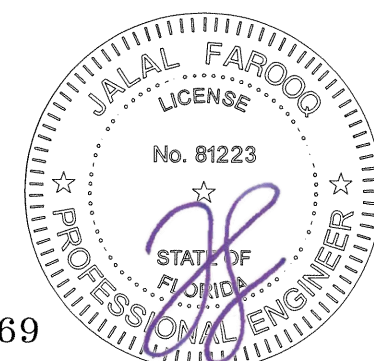
The diagram illustrates the difference between an active and an inactive door. On the left, a single door is shown with dimensions 'LEAF WIDTH' and 'FRAME HEIGHT'. The door is labeled 'ACTIVE' at the bottom. On the right, two doors are shown side-by-side. The left door is labeled 'INACTIVE' and the right door is labeled 'ACTIVE'. Both have dimensions 'LEAF WIDTH' and 'FRAME HEIGHT' indicated. The diagram shows the internal structure of the doors, including the frame and the door leaf, with dashed lines indicating the internal components.

ACTIVE LEAF:

INACTIVE LEAF

The diagrams illustrate two window frame configurations:

- Single-leaf:** A vertical window frame with a single leaf. The width is labeled "LEAF WIDTH" and the height is labeled "FRAME HEIGHT". The leaf is labeled "ACTIVE".
- Double-leaf:** A vertical window frame with two leaves. The width of each leaf is labeled "LEAF WIDTH". The left leaf is labeled "INACTIVE" and the right leaf is labeled "ACTIVE".



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sheet 8 of 12

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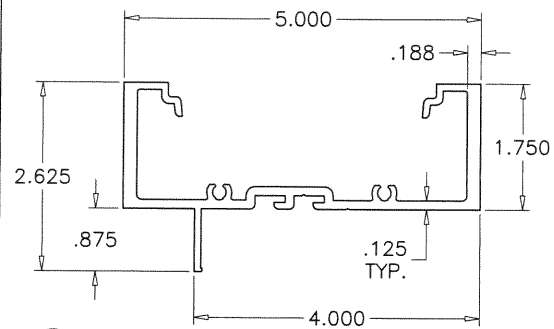
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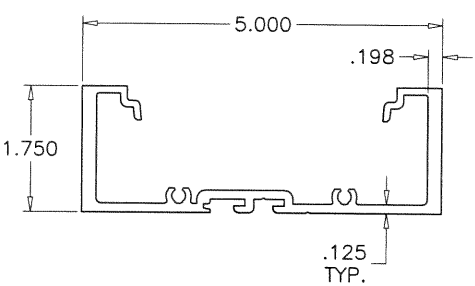
ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	E801	1	DOOR FRAME HEAD	6063-T6	-
2	E802	2	DOOR FRAME JAMB	6063-T6	-
3	E804	1	ADA THRESHOLD	6063-T6	-
4	E805	2/ LEAF	LEAF TOP AND BOTTOM RAIL	6063-T6	-
4A	E808	1/ LEAF	10" BOTTOM RAIL	6063-T6	-
5	E806	1/ LEAF	LEAF HINGE STILE	6063-T6	-
6	E823	1/ LEAF	LEAF LOCK STILE	6063-T6	-
7	UW-402	AS REQD.	SHEAR CLIP. 4" LONG	6063-T6	-
8	E809	AS REQD.	ASTRAGAL W'STRIP ADAPTER	6063-T6	-
9	E810	4/ LEAF	GLAZING BEAD (INSUL. LAM. GLASS)	6063-T6	-
9A	E811	4/ LEAF	GLAZING BEAD (LAM. GLASS)	6063-T6	-
10	E816	AS REQD.	ADA THRESHOLD COVER	6063-T5	-
11	E818	AS REQD.	ADA THRESHOLD RISER	6063-T5	-
12	E819	AS REQD.	INTERMEDIATE HORIZONTAL TYPE 1	6063-T6	-
12B	E822	AS REQD.	INTERMEDIATE HORIZONTAL SHEAR BLOCK	6063-T6	-
13	E820	AS REQD.	DOOR FRAME SNAP COVER	6063-T5	-
14	E824	AS REQD.	ASTRAGAL STIFFENER	6063-T6	-
15	E825	AS REQD.	LOCK BACK-UP PLATE	6063-T6	-
17	E608	AS REQD.	LEAF W'STRIP ADAPTER	6063-T6	-
17A	#8 X 3/4"	AS REQD.	ADAPTER FASTENERS, AT 11" O.C.	6063-T6	FH SELF DRILLING SCREWS
18	E612	AS REQD.	LEAF ALIGNMENT BRACKET	6063-T6	-
19	E613	AS REQD.	LEAF CLAMP	6063-T6	-
19A	E613	AS REQD.	HINGE BACKUP PLATE, 9" LONG	6063-T6	-
20	E20618.KN3020	AS REQD.	GLAZING VINYL	EPDM	DUROMETER 70±5 SHORE A
21	E815	4/ LEAF	SILICONE DAM	EPDM	DUROMETER 70±5 SHORE A
22	E817	AS REQD.	ASTRAGAL SEAL	EPDM	DUROMETER 70±5 SHORE A
23	-	-	GLASS SPACER	SILICONE	FRANK LOWE RUBBER CO.
24	-	2/ LITE	SETTING BLOCK, 1/4" X 1/2" X 4" LONG	EPDM	AT 6" FROM EACH END, DUROMETER 65±5
25	-	2/ LITE	SETTING BLOCK, 1/4" X 3/4" X 4" LONG	EPDM	AT 6" FROM EACH END, DUROMETER 65±5
26	W11323	-	PILE W'STRIPPING	WOOL	ULTRAFAB
27	E20618-KN-3020	-	BULB W'STRIPPING	SANTOPRENE	EPDM
28	-	3/ LEAF	BUTT HINGES	ALUMINUM	REGENT
29	1/4-20 X 1/2"	-	HINGE INSTALLATION FASTENERS	-	FH MS
30	#12 X 1-1/4"	AS REQD.	FRAME ASSEMBLY SCREWS	-	HH SELF DRILLING SCREWS
31	-	-	3/8" DIA. THREADED ROD	STEEL	-
33	E812	AS REQD.	DOOR TRANSITION MULLION	6063-T6	-
34	E813	AS REQD.	TRANSITION MULLION STIFFENER	6063-T6	-
35	E814	AS REQD.	W'STRIP ADAPTER AT TRANSITION MULLION	6063-T6	-
36	UW-401	AS REQD.	TRANSOM HEAD/SILL	6063-T6	-
37	UW-407	AS REQD.	TRANSOM JAMB	6063-T6	-
38	UW-404	AS REQD.	GLAZING BEAD (TRANSOM)	6063-T6	-
39	UW-408	AS REQD.	FRAME INSERT (TRANSOM)	6063-T6	-
40	-	2/LITE	SETTING BLOCKS (3/16" X 1/2" X 2" LONG)	EPDM	DUROMETER 80±5 SHORE A
41	-	AS REQD.	GLASS SPACER	SILICONE	FRANK LOWE
42	UW-406	AS REQD.	GLAZING GASKET	NEOPRENE	DUROMETER 55±5 SHORE A

SEALANTS:

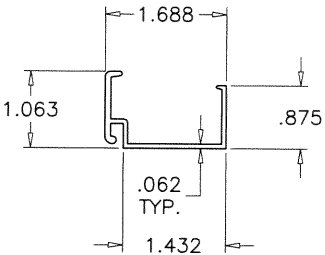
ALL FRAME JOINTS AND SEAMS SEALED WITH SCHNEE-MOREHEAD SM5504 ACRYL-R SEAM SEALER.



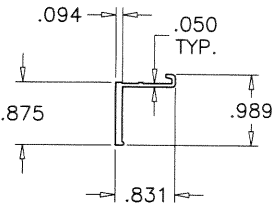
TRANSOM HEAD/SILL



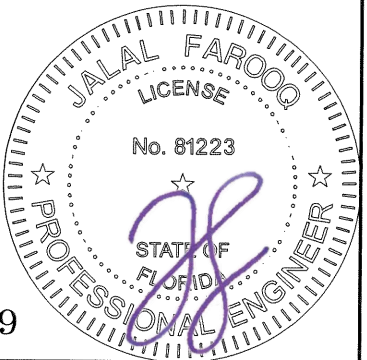
TRANSOM JAMB



GLAZING BEAD (TRANSOM)



FRAME INSERT (TRANSOM)



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FL #21469

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COMP-ANL\W16-78ECO

SERIES 800 COMMERCIAL ALUM OUTSWING DOOR (L.M.I.)

ECO WINDOW SYSTEMS, LLC.

9114 N.W. 106 STREET
MEDLEY, FL. 33178

TEL. (305) 885-5299 FAX (305) 885-5902

revisions:

date: 11-30-16

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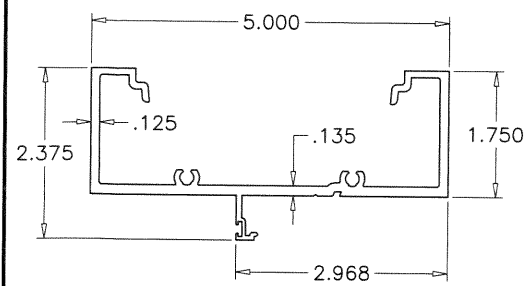
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chk. by:

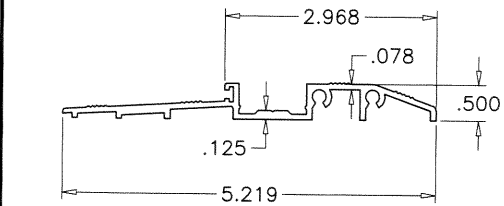
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W16-78

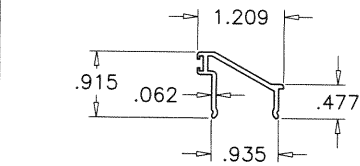
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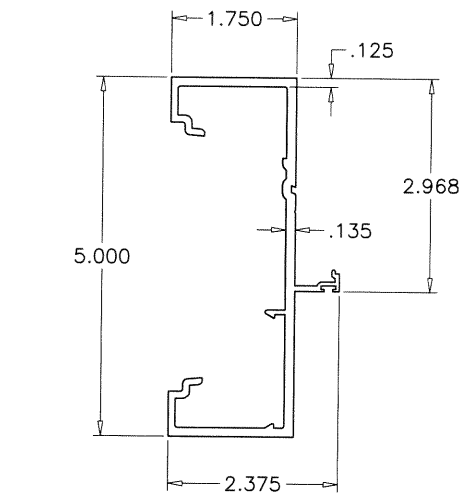
1 DOOR FRAME HEAD



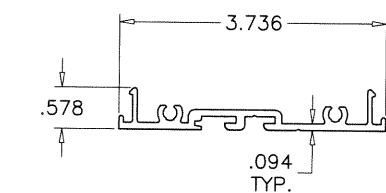
3 ADA THRESHOLD



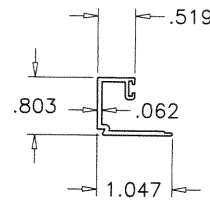
11 ADA THRESHOLD RISER



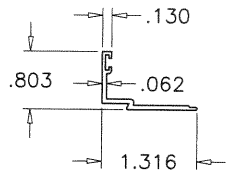
2 DOOR FRAME JAMB



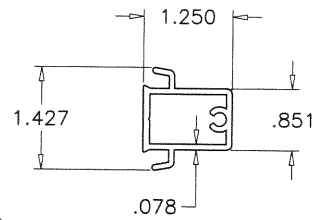
7 SHEAR CLIP



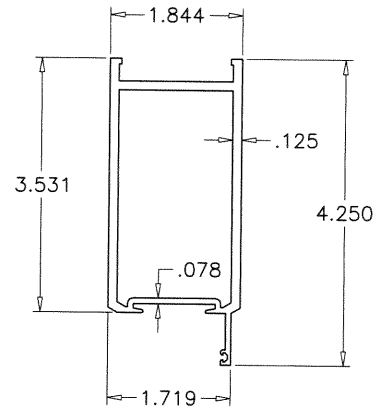
9A GLAZING BEAD
LAM. GLASS



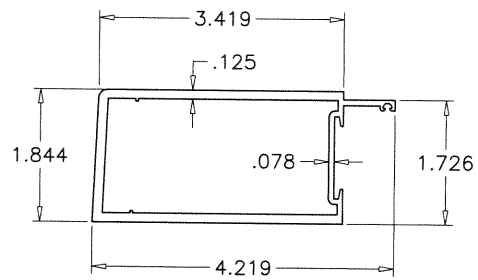
9 GLAZING BEAD
INSUL. LAM. GLASS



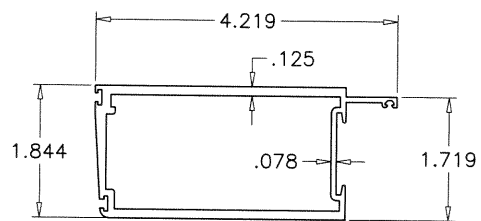
12B INTER. HORIZ. SHEAR BLOCK



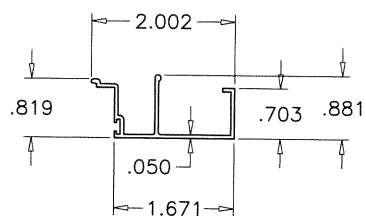
4 LEAF TOP/BOTTOM RAIL



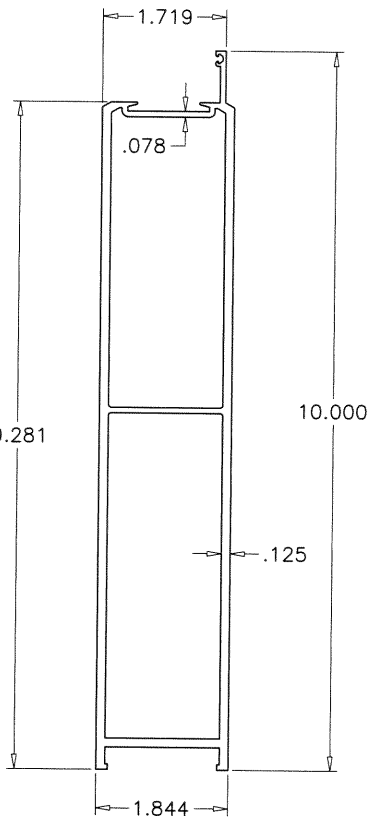
5 LEAF HINGE STILE



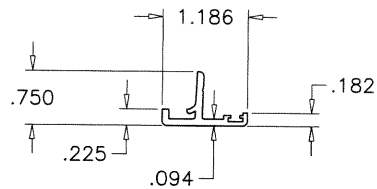
6 LEAF LOCK STILE



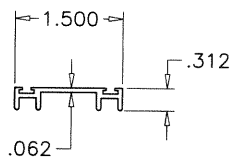
35 W'STRIP ADAPTER (AT MULLION)



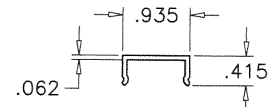
4A 10" BOTTOM RAIL



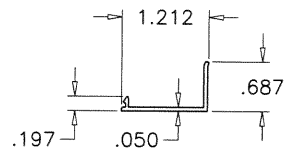
8 ASTRAGAL W'STRIP ADAPTER



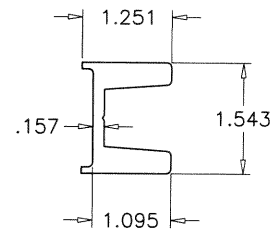
17 LEAF W'STRIP ADAPTER



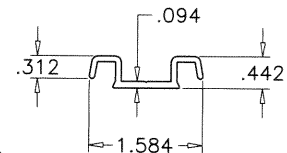
10 ADA THRESHOLD COVER



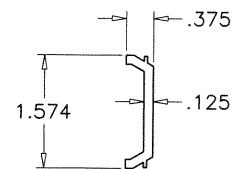
13 DOOR FRAME SNAP COVER



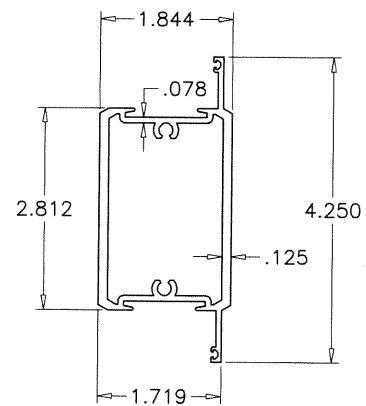
14 ASTRAGAL STIFFENER



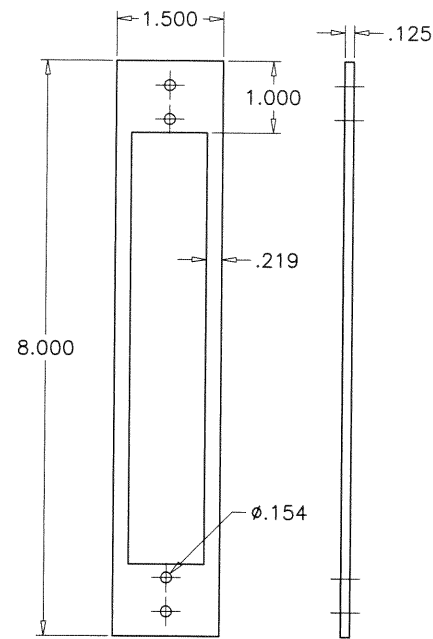
18 LEAF ALIGNMENT BRACKET



19 LEAF CLAMP
HINGE BACK-UP PLATE



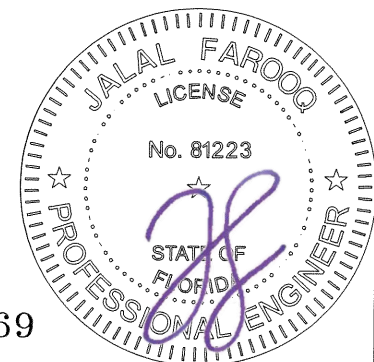
12 INTERMEDIATE HORIZ.



15 LOCK BACK-UP PLATE

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COMP-ANL\W16-78ECO

SERIES 800 COMMERCIAL ALUM OUTSWING DOOR (L.M.I.)

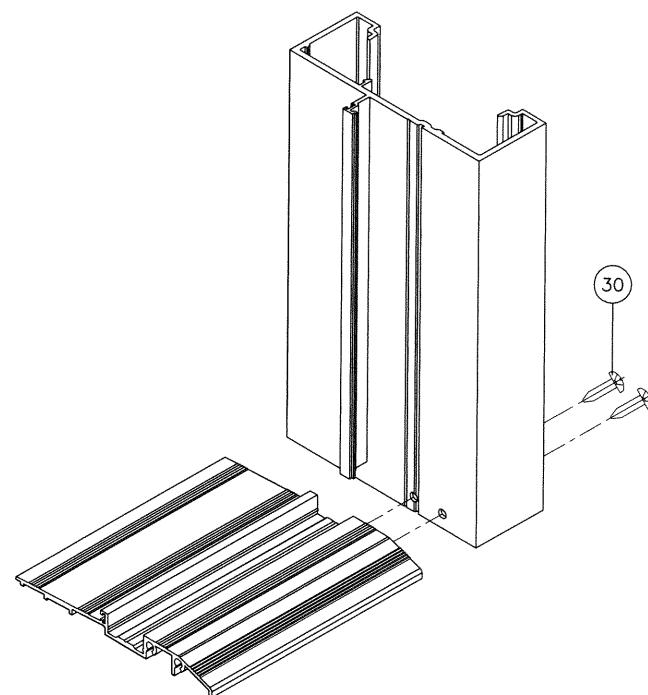
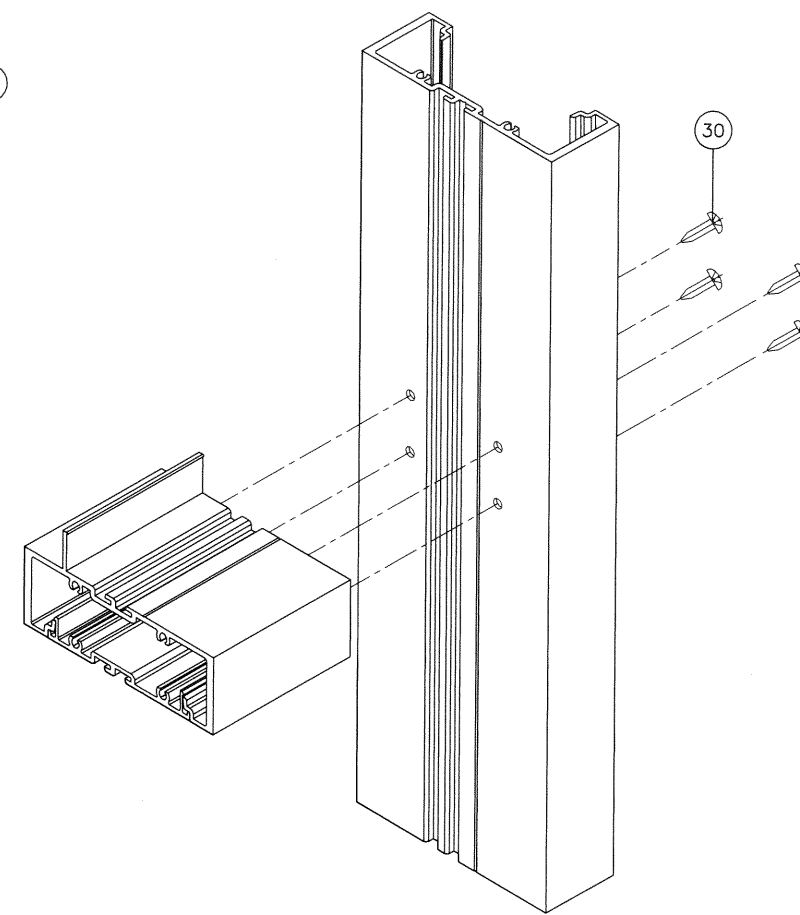
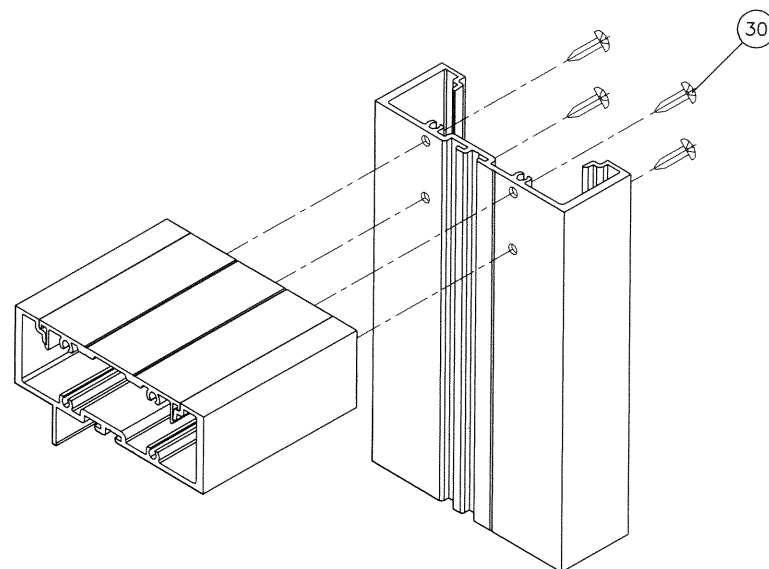
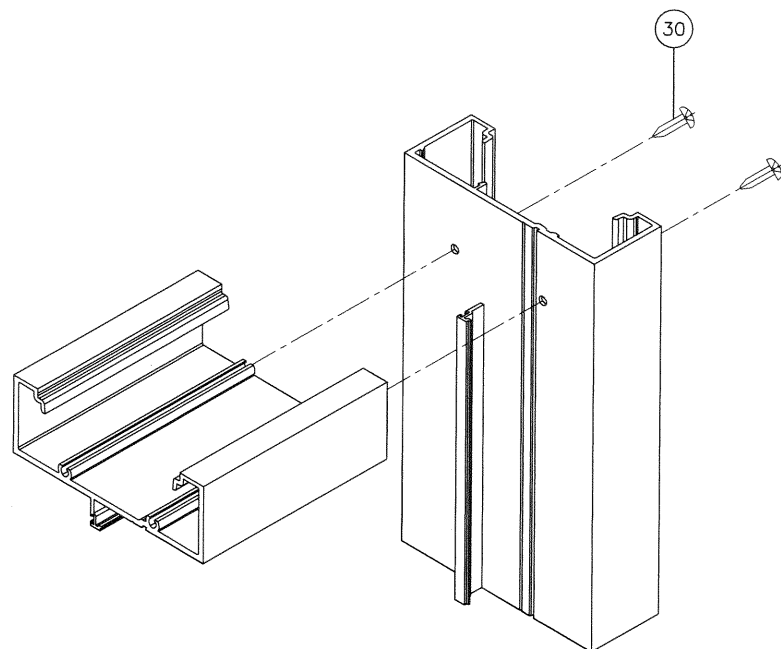
ECO WINDOW SYSTEMS, LLC.

9114 N.W. 106 STREET
MEDLEY, FL. 33178
TEL. (305) 885-5299 FAX (305) 885-5902

revisions:
no date by description

date: 11-30-16
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

drawing no.
W16-78
sheet 10 of 12



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FL #21469



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SERIES 800 COMMERCIAL ALUM OUTSWING DOOR (L.M.I.)

ECO WINDOW SYSTEMS, LLC.

9114 N.W. 106 STREET

ST. N.W. 100 31K
MEDLEY, FL. 33178

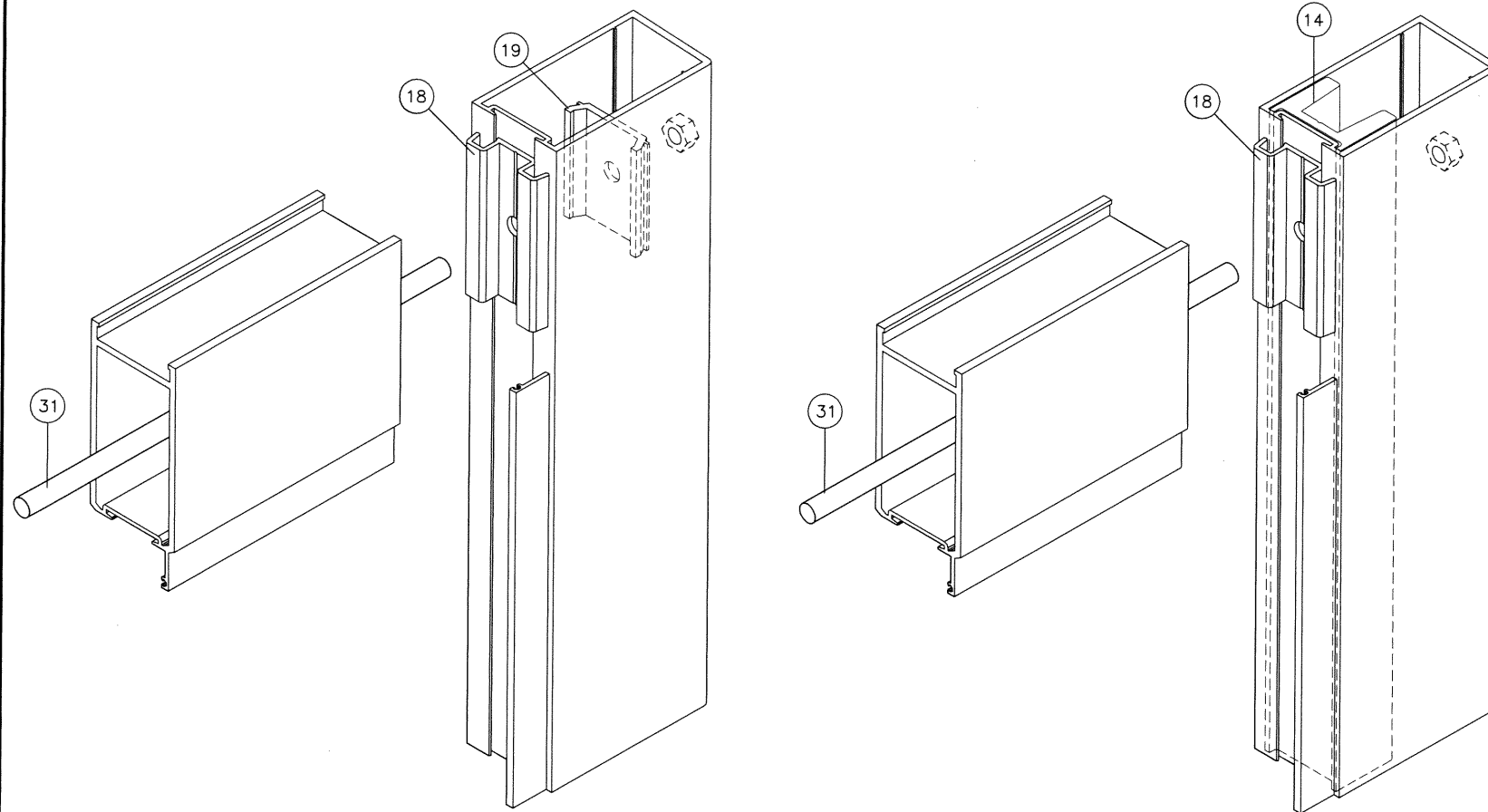
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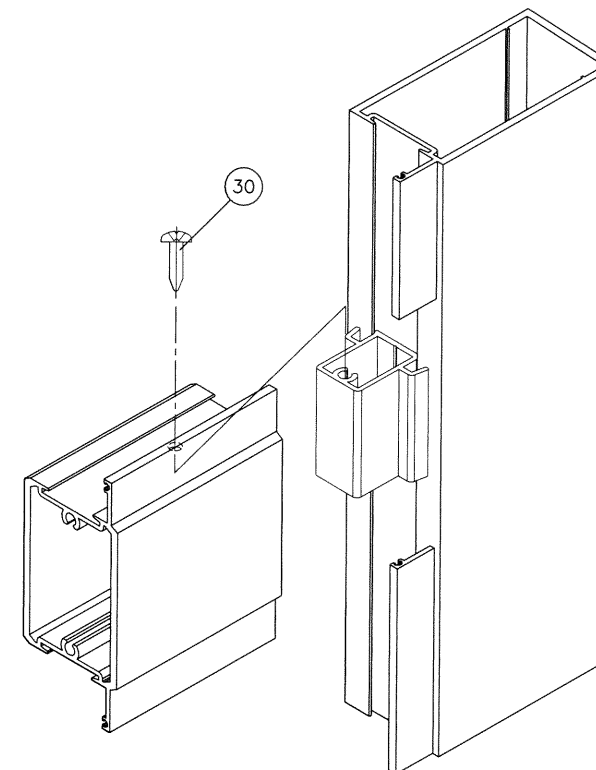
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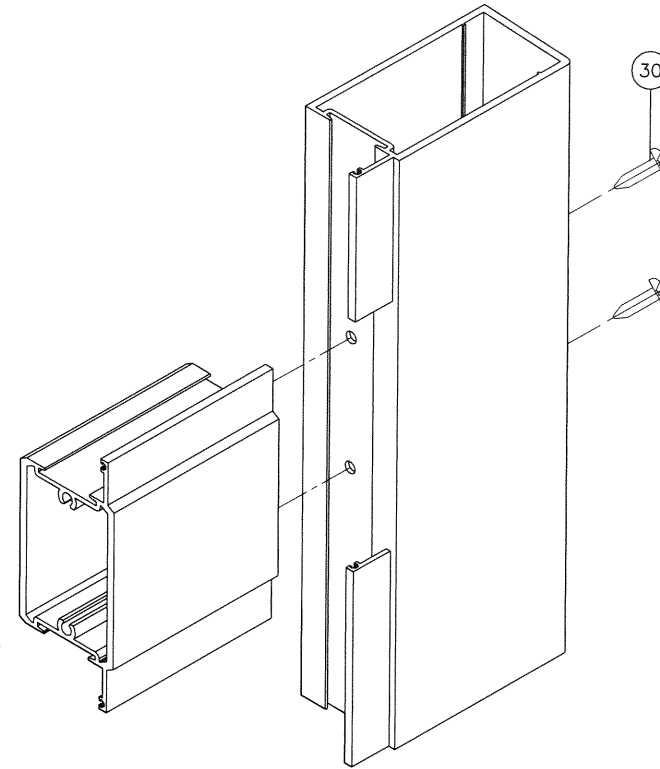
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LEAF TOP/BOTTOM CORNERS

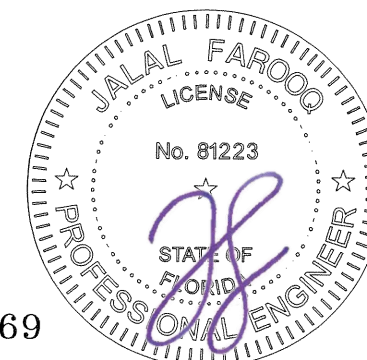


INTERMEDIATE HORIZONTAL CORNER



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FL #21469



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revisions:	no	date	by	description			

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W16-78

sheet 12 of 12

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