

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

SERIES 'SYNUA-12'
OUTSWING PIVOT DOOR

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 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.

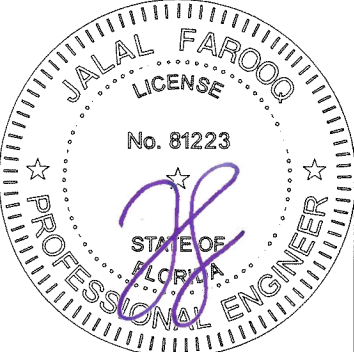
NOTE:
GLASS CAPACITIES ARE BASED ON
ASTM E1300-09 (3 SEC. GUSTS)
AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCA05-DEC-219

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.

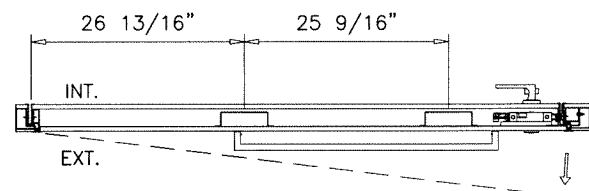


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ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100
WWW.AFCENG.COM
FBPE #3538
COMP-ANL\22-39F-OVS

SERIES 'SYNUA-12' OUTSWING PIVOT DOOR (L.M.I.)
OIKOS VENEZIA SRL
VIA DELLA TECNICA NO. 6
30020 GRUARO - ITALY
TEL. 0039 0421 7671 FAX 0039 0421 767 222

revisions:	
no	description
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date: 09-23-22	
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22-39F	
sheet 1 of 15	



NOTE:
APPLICABLE EGRESS REQUIREMENTS TO BE REVIEWED BY AHJ.

TYPICAL ELEVATION
(STAND ALONE SIDELITE)

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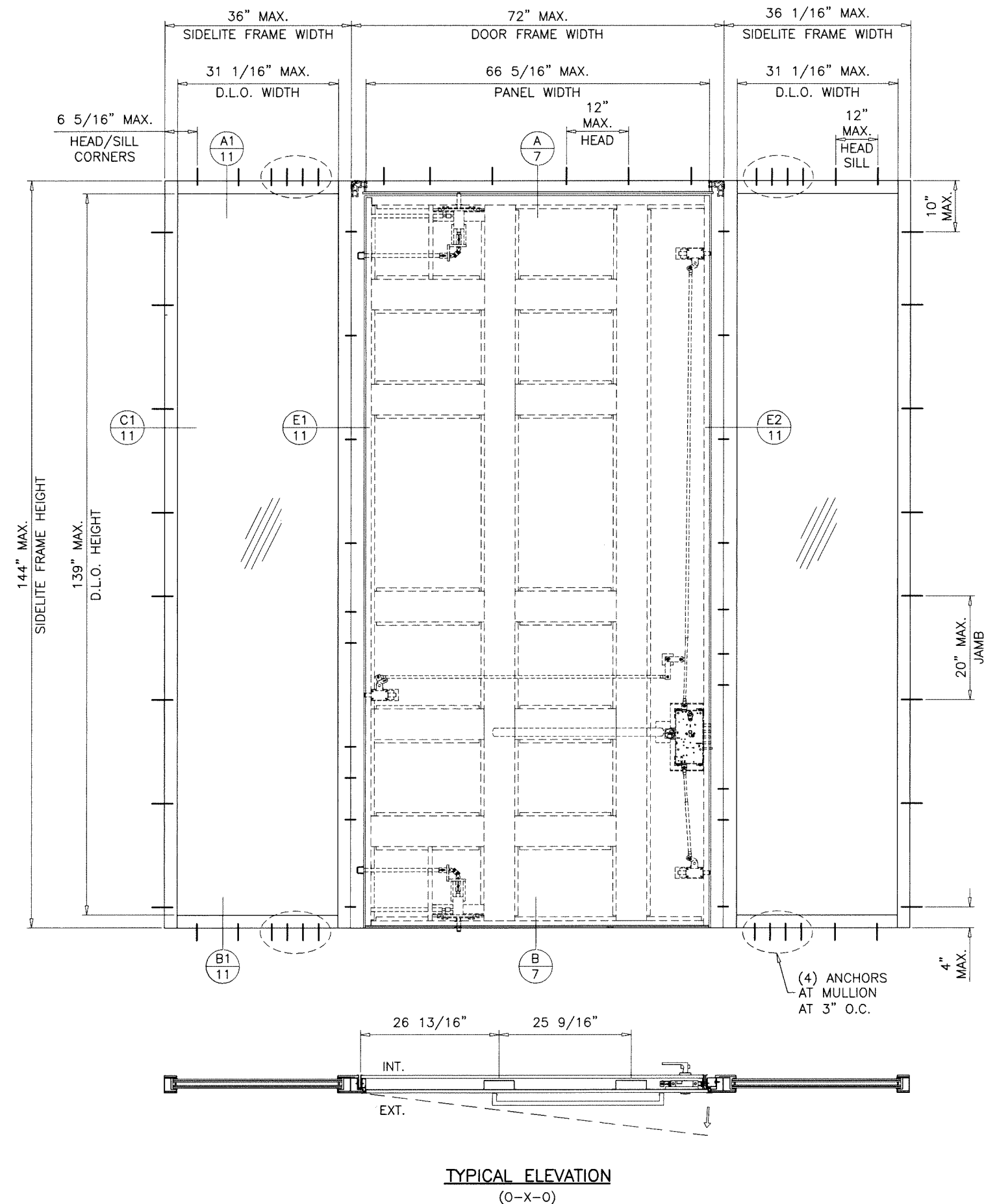
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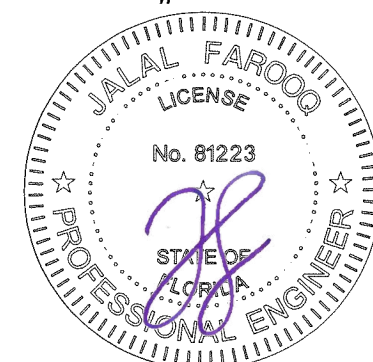
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22-39F			
sheet 2 of 15			



MULLION LOAD CAPACITY – PSF										
FRAME HEIGHT INCHES	DOOR FRAME WIDTH INCHES	SIDELITE FRAME WIDTH INCHES	PIVOT SIDE MULLION				LOCK SIDE MULLION			
			TUBE REINF.		BAR REINF.		TUBE REINF.		BAR REINF.	
			EXT.(+)	INT.(–)	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)
120"	72"	36"	64.4	64.4	65.0	65.0	65.0	65.0	65.0	65.0
132"			48.2	48.2	65.0	65.0	65.0	65.0	65.0	65.0
144"			38.3	38.3	53.0	53.0	53.8	53.8	65.0	65.0

SEE SHEET 2 FOR DOOR AND SIDELITE LOAD CAPACITY.
 SEE CHART ABOVE FOR SIDELITE MULLION CAPACITY.
 LOWER VALUE FROM DOOR, SIDELITE OR MULLION CAPACITY CHART SHALL APPLY.
 SEE SHEET 11 FOR MULLION REINF. DETAILS.

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sheet	3 of 15			

.354" PLYWOOD
WITH OR WITHOUT 'V' GROVES
(EXTERIOR FINISHES
LACQUERED, WOOD VENEER OR MELAMINE)

.196" PLYWOOD SUPPORT

16 GA. STEEL PANEL

1.57" INSULATION
EPS, CORAFOAM, STONEWALL

.394" CORAFOAM OR VACUUM PANEL

.196" PLYWOOD SUPPORT

.354" MDF LACQUERED OR
.354" MDF + VENEER OR
.354" MDF + MELAMINE

EXTERIOR

3 1/8" MIN.
OVERALL THICK.

OPTION #1

MDF/OKUME PANEL WITH OR WITHOUT GROVES

.047" ALUMINUM PANEL
GLUED TO CORAFOAM SUPPORT

.456" CORAFOAM SUPPORT
GLUED TO HPL

.047" HPL

16 GA. STEEL PANEL

1.57" INSULATION
EPS, CORAFOAM, STONEWALL

.148" CORAFOAM OR VACUUM PANEL

.047" HPL

.551" CORAFOAM SUPPORT
GLUED TO HPL

.047" ALUMINUM PANEL
GLUED TO CORAFOAM SUPPORT

EXTERIOR

3" MIN.
OVERALL THICK.

OPTION #2

ALLOY PANEL

.157" GLASS COVER
GLUED TO CORAFOAM SUPPORT

.346" CORAFOAM SUPPORT
GLUED TO HPL

.047" HPL

16 GA. STEEL PANEL

1.57" INSULATION
EPS, CORAFOAM, STONEWALL

.551" CORAFOAM OR VACUUM PANEL

.047" HPL

.346" CORAFOAM SUPPORT
GLUED TO HPL

.157" GLASS COVER
GLUED TO CORAFOAM SUPPORT

EXTERIOR

3 5/16" MIN.
OVERALL THICK.

OPTION #3

GLASS PANEL

.118" GRES PANEL
GLUED TO CORAFOAM SUPPORT

.385" CORAFOAM SUPPORT
GLUED TO HPL

.047" HPL

16 GA. STEEL PANEL

1.57" INSULATION
EPS, CORAFOAM, STONEWALL

.393" CORAFOAM OR VACUUM PANEL

.047" HPL

.385" CORAFOAM SUPPORT
GLUED TO HPL

.118" GRES PANEL
GLUED TO CORAFOAM SUPPORT

EXTERIOR

3 1/8" MIN.
OVERALL THICK.

OPTION #4

3mm THK. GRES PANEL

.236" GRES PANEL
GLUED TO CORAFOAM SUPPORT

.385" CORAFOAM SUPPORT
GLUED TO HPL

.047" HPL

16 GA. STEEL PANEL

1.57" INSULATION
EPS, CORAFOAM, STONEWALL

.393" CORAFOAM OR VACUUM PANEL

.047" HPL

.385" CORAFOAM SUPPORT
GLUED TO HPL

.236" GRES PANEL
GLUED TO CORAFOAM SUPPORT

EXTERIOR

3 3/8" MIN.
OVERALL THICK.

OPTION #4A

6mm THK. GRES PANEL

.196" NATURAL STONE PANEL
GLUED TO CORAFOAM SUPPORT

.307" CORAFOAM SUPPORT
GLUED TO HPL

.047" HPL

16 GA. STEEL PANEL

1.57" INSULATION
EPS, CORAFOAM, STONEWALL

.393" CORAFOAM OR VACUUM PANEL

.047" HPL

.307" CORAFOAM SUPPORT
GLUED TO HPL

.196" NATURAL STONE PANEL
GLUED TO CORAFOAM SUPPORT

EXTERIOR

3 1/8" MIN.
OVERALL THICK.

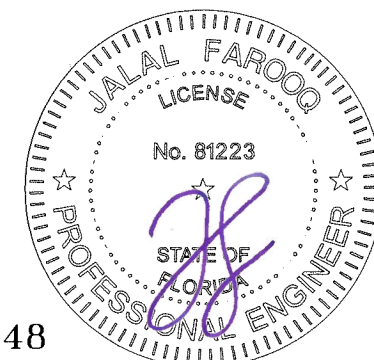
OPTION #5

NATURAL STONE

GLUED CLADDING OPTIONS

INTERIOR AND EXTERIOR CLADDING WITH SINGLE PANELS

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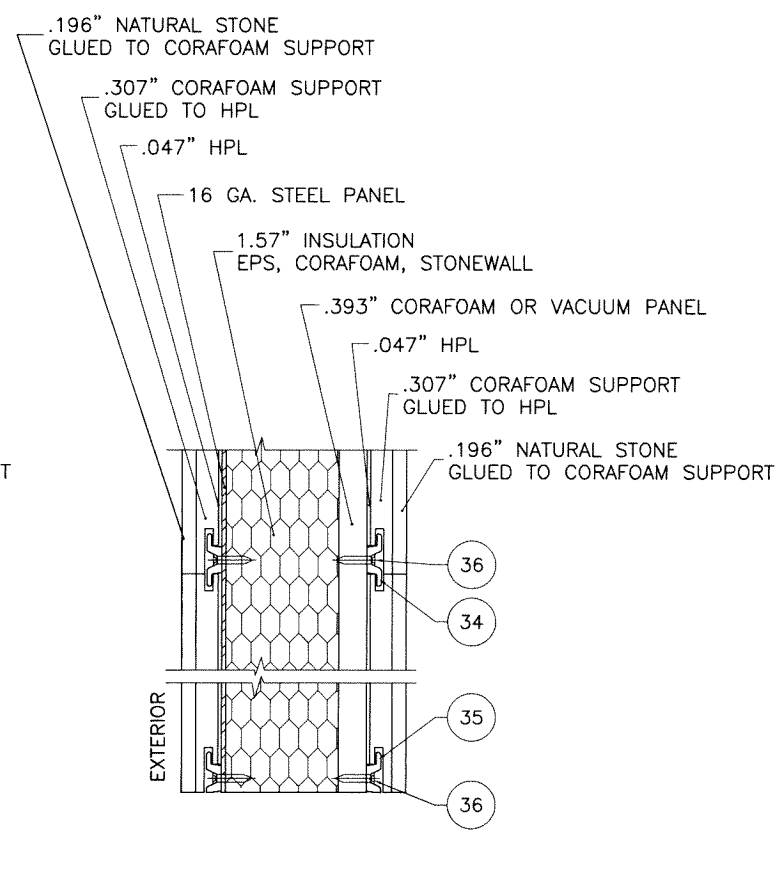
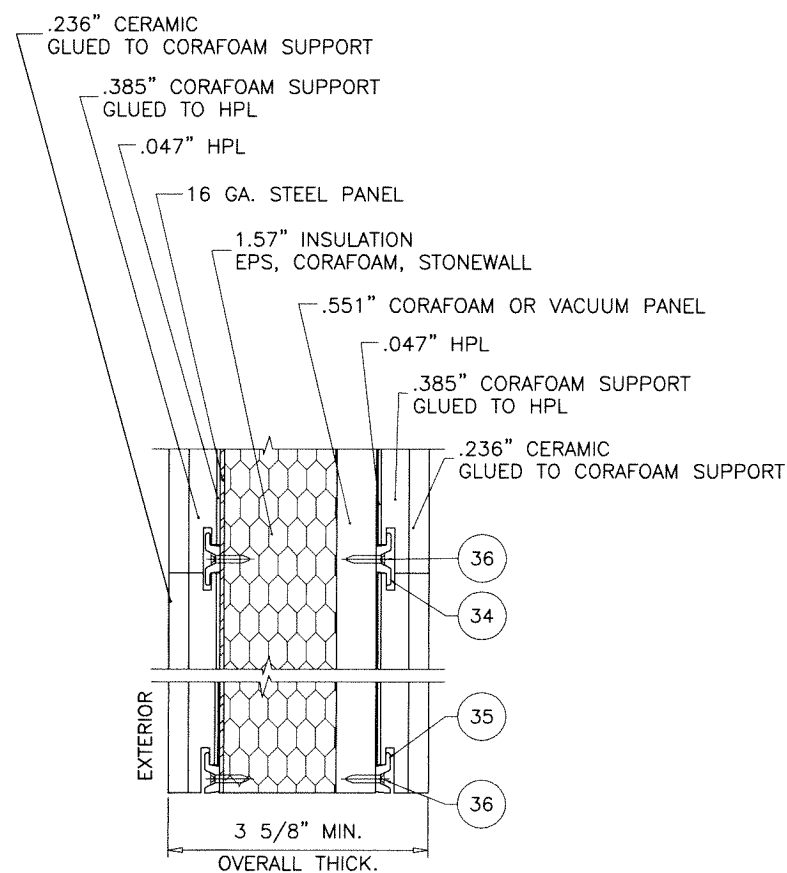
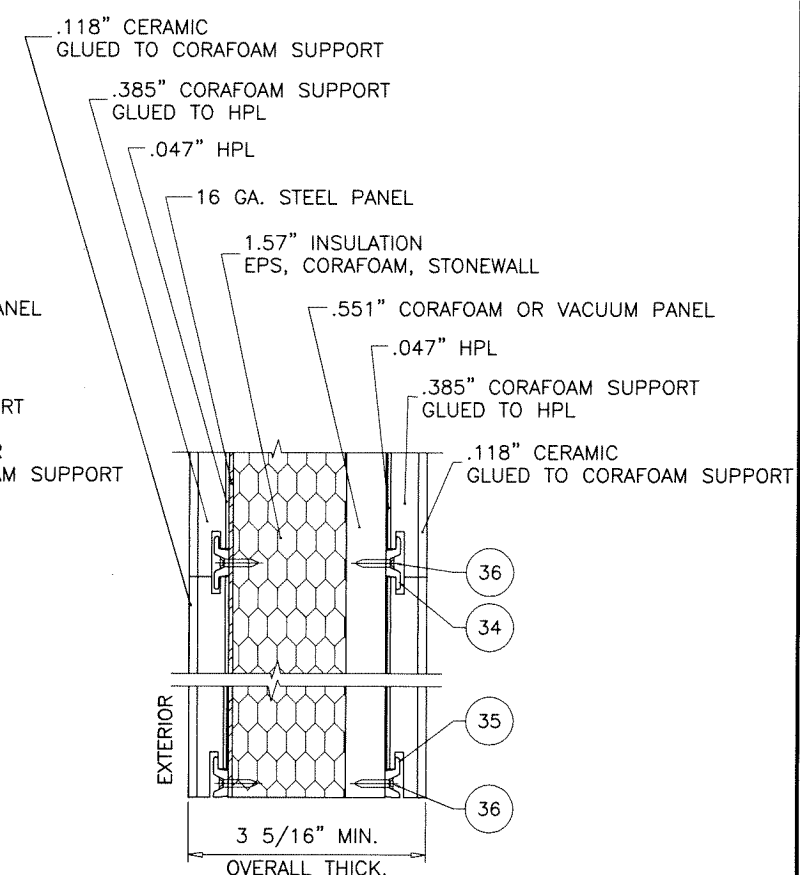
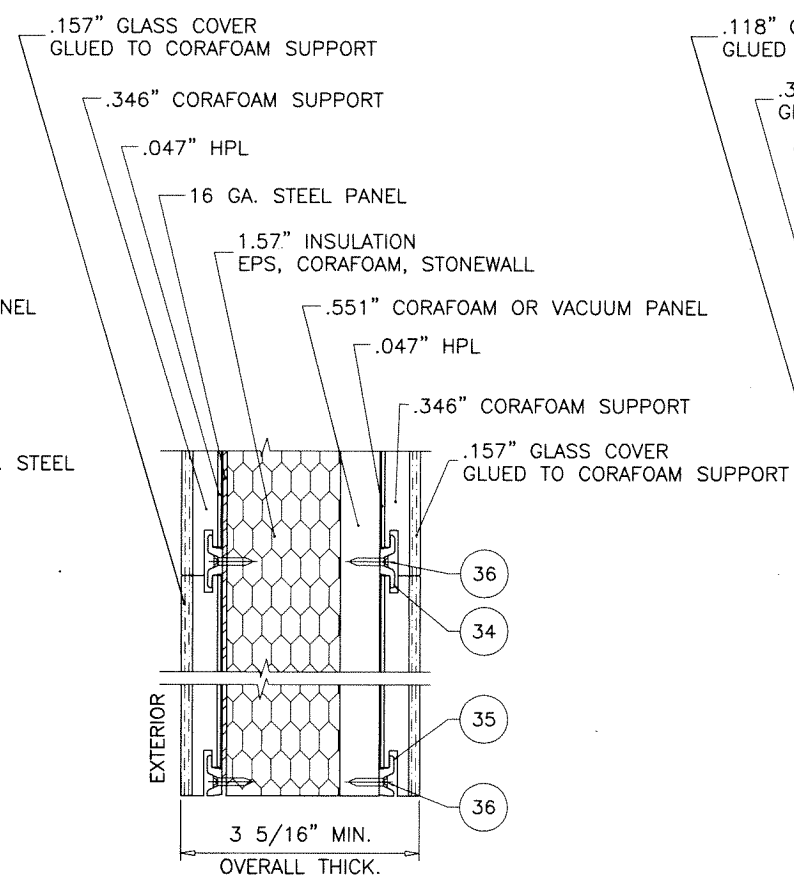
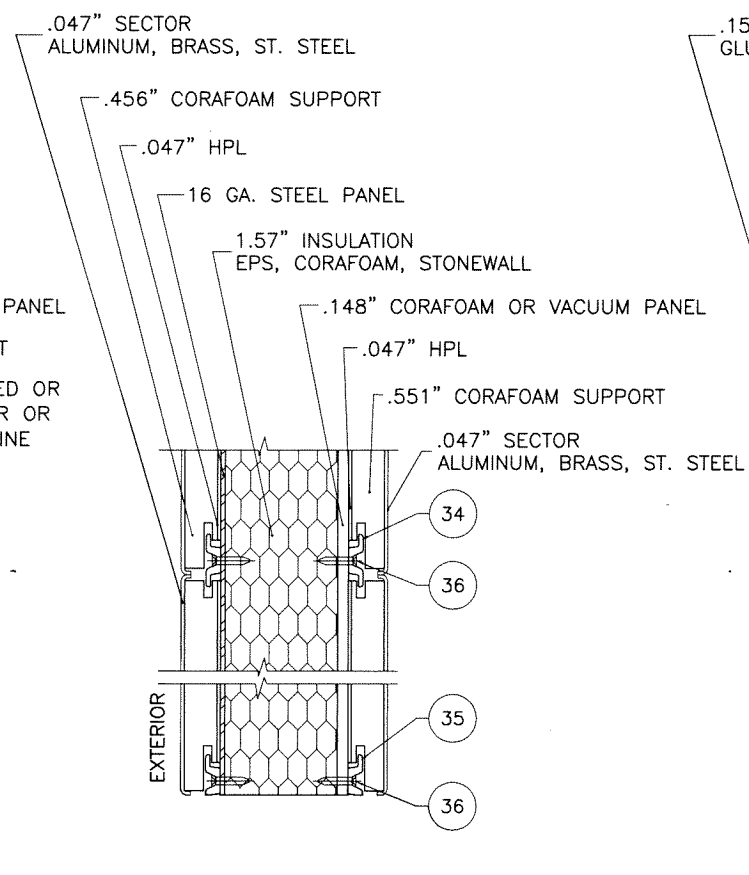
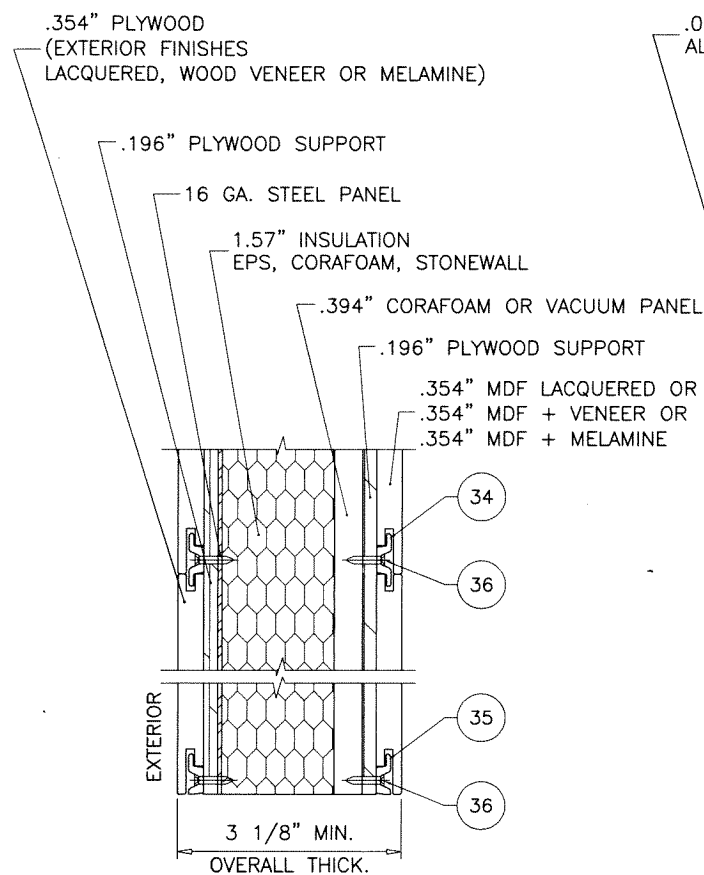
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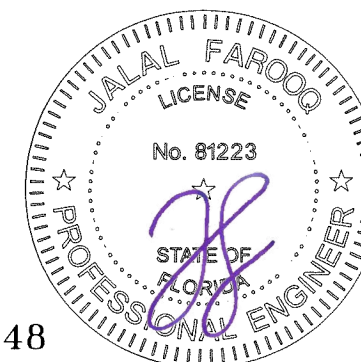
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MECHANICAL FASTENED CLADDING OPTIONS

INTERIOR AND EXTERIOR CLADDING WITH SECTORS
SECTOR WIDTH = LEAF WIDTH
SECTOR HEIGHT = (VARIES) 12" MAX.

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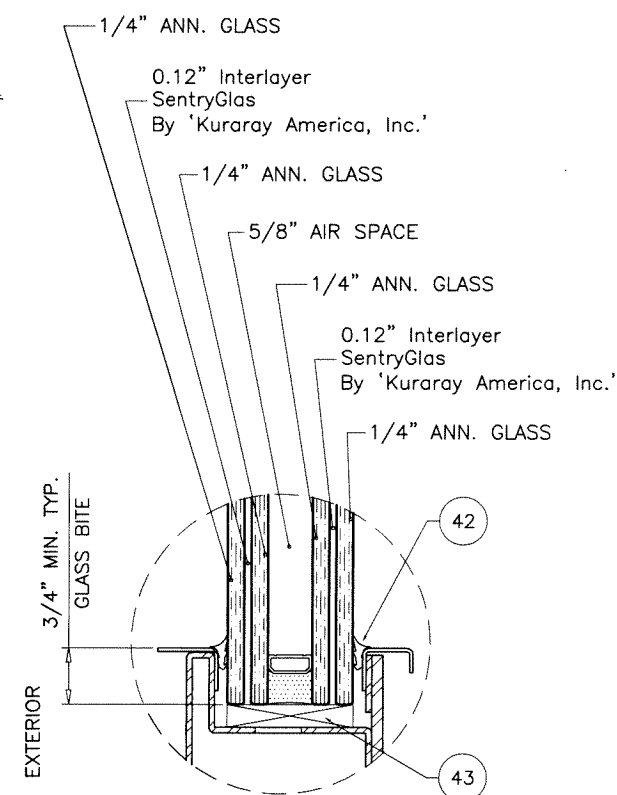
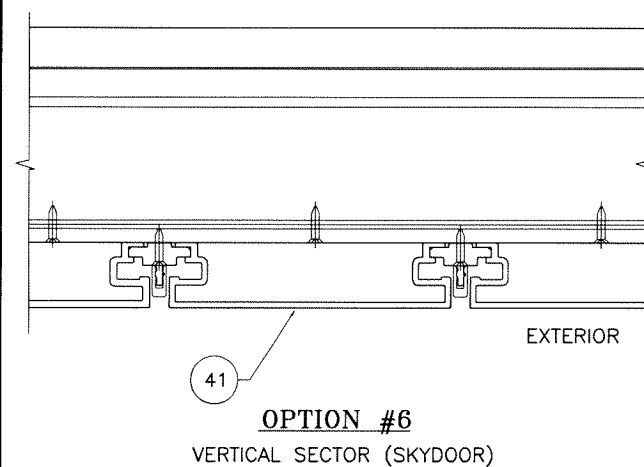
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GLAZING DETAIL AT SIDELITE
1-3/4" OVERALL LAM. INSUL. GLASS

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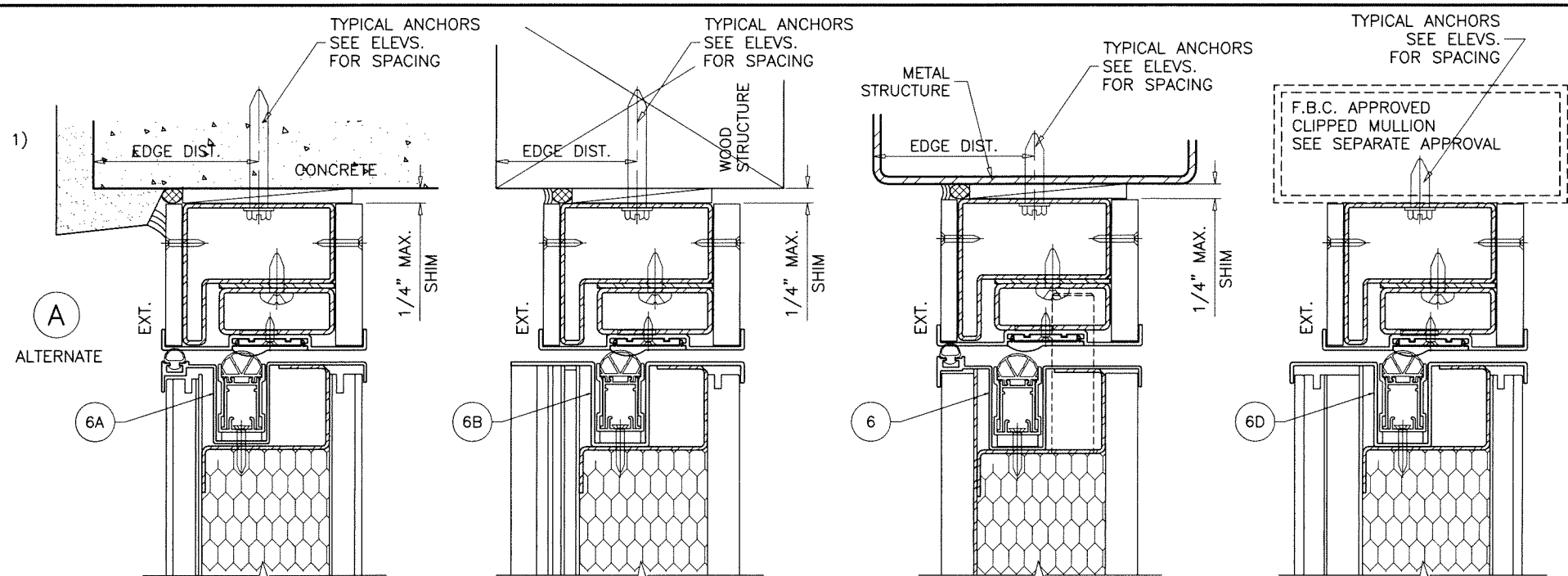
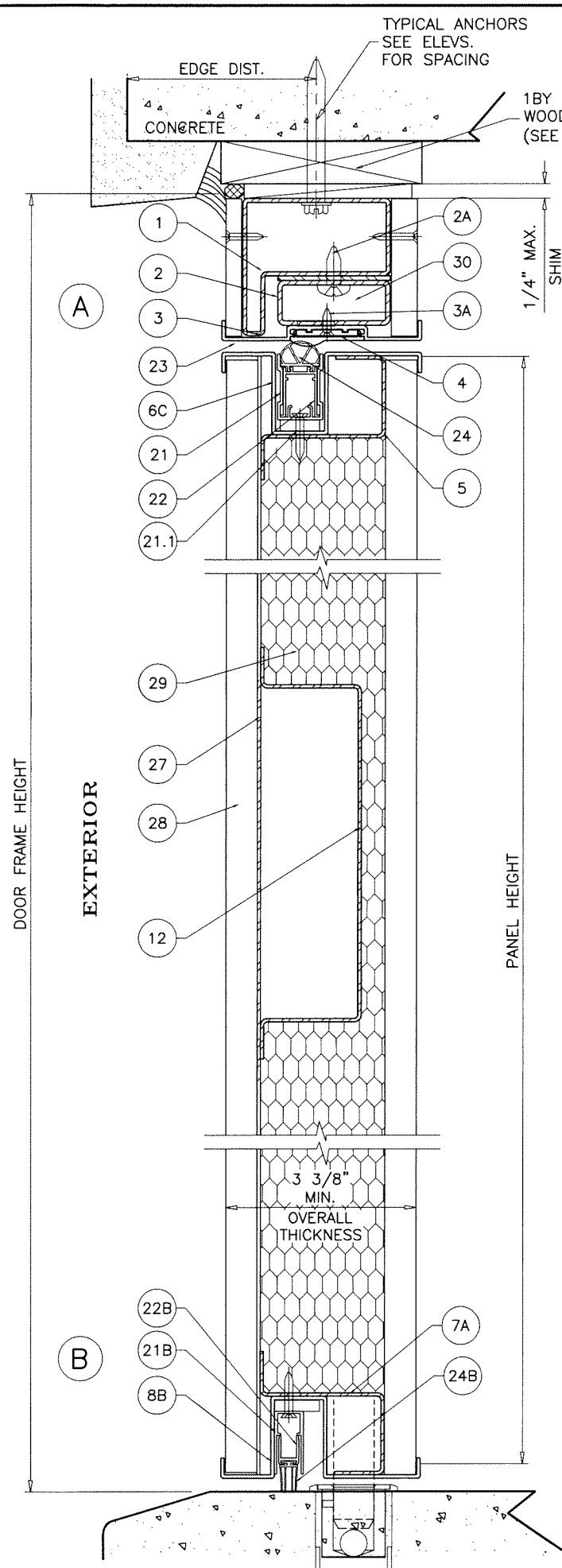
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22-39F

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TYPICAL ANCHORS AT HEAD/JAMBS: SEE ELEV. FOR SPACING

5/16" DIA. ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI)

INTO WOOD STRUCTURES

1-7/8" MIN. PENETRATION INTO WOOD (HEAD/JAMBS)

THRU 1BY OR 2BY BUCKS INTO CONC. OR FILLED BLOCK

1-3/4" MIN. EMBED INTO CONCRETE (HEAD/JAMBS)

1-3/4" MIN. EMBED INTO FILLED BLOCK (JAMBS)

DIRECTLY INTO CONCRETE OR FILLED BLOCK

1-3/4" MIN. EMBED INTO CONCRETE (HEAD/JAMBS/SILL)

1-3/4" MIN. EMBED INTO FILLED BLOCK (JAMBS)

5/16" DIA. SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)

INTO F.B.C. APPROVED MULLIONS

OR

INTO METAL STRUCTURES (HEAD/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 = 2-1/2" MIN. (HEAD/SILL/JAMB)

INTO CONCRETE OR FILLED BLOCK = 1-3/16" OR 2-1/2" MIN.
(JAMBS ONLY SEE ELEV.)

INTO WOOD STRUCTURE = 1-1/4" 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 GROUT FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.

TYPICAL ANCHORS AT DOOR SILL: SEE ELEV. FOR SPACING

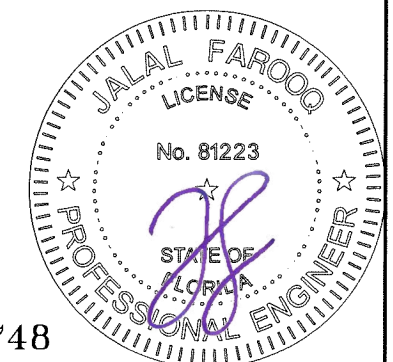
3/16" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=117 KSI)

DIRECTLY INTO CONCRETE, 3000 PSI MIN.

1-1/2" MIN. EMBEDMENT

2-1/2" MIN. EDGE DISTANCE

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



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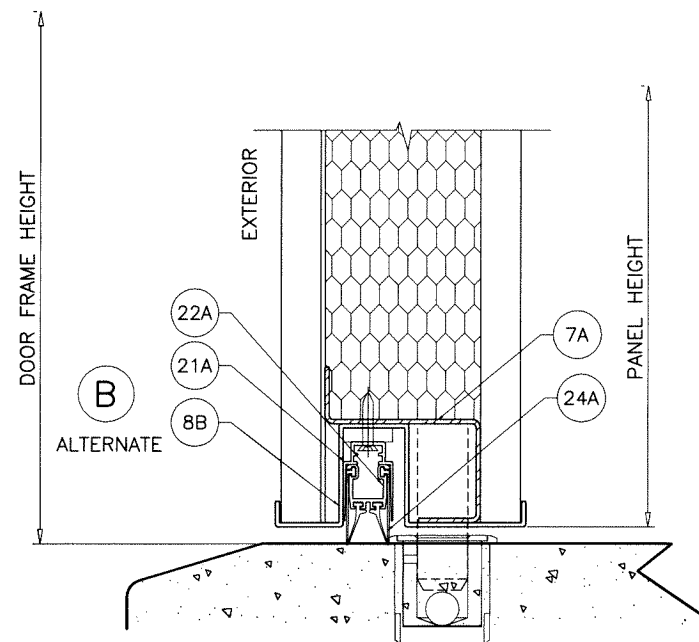
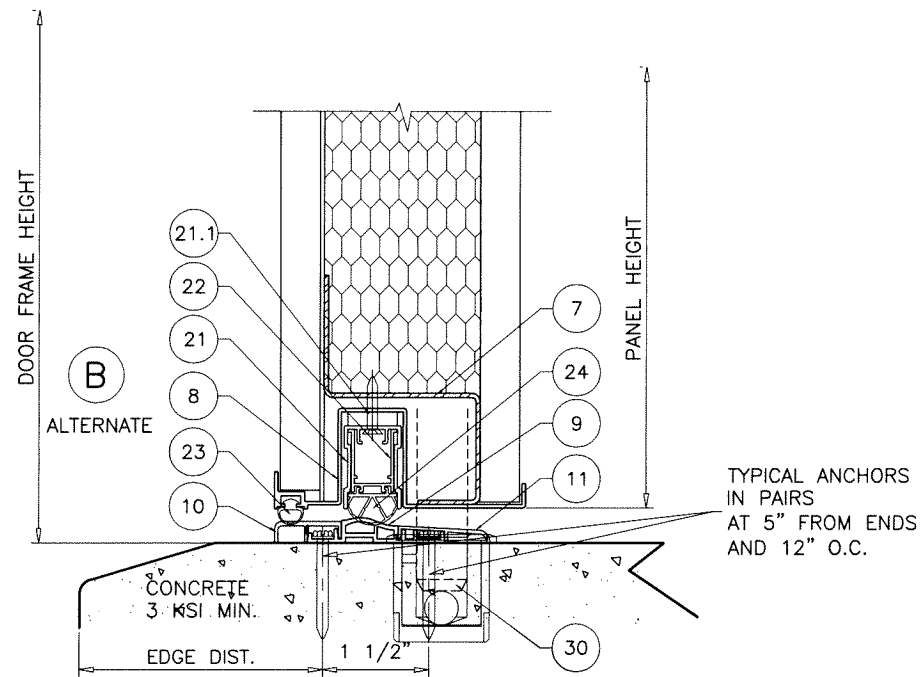
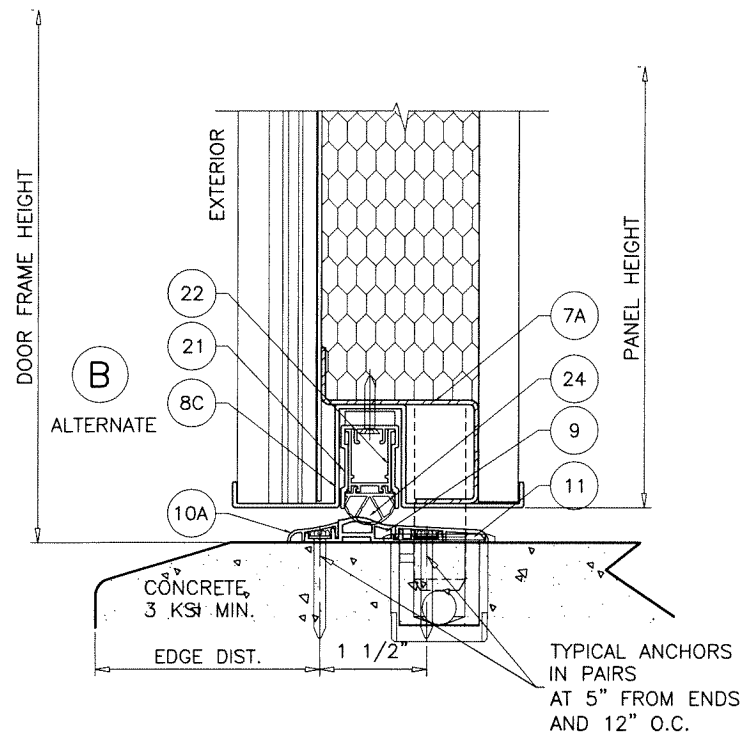
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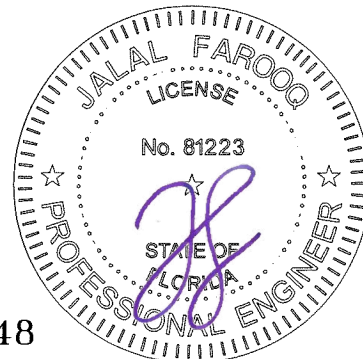
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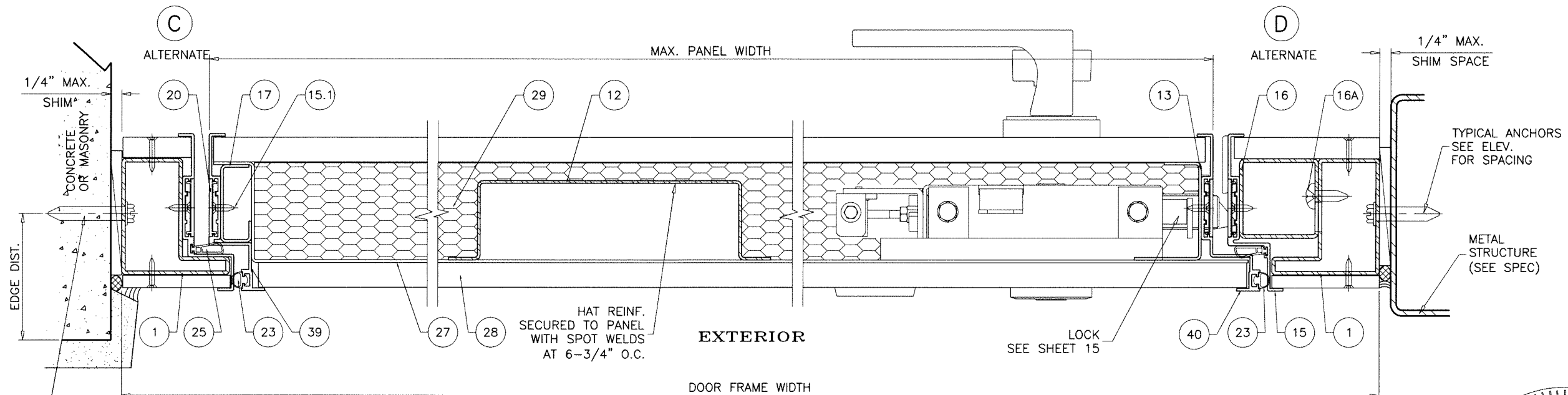
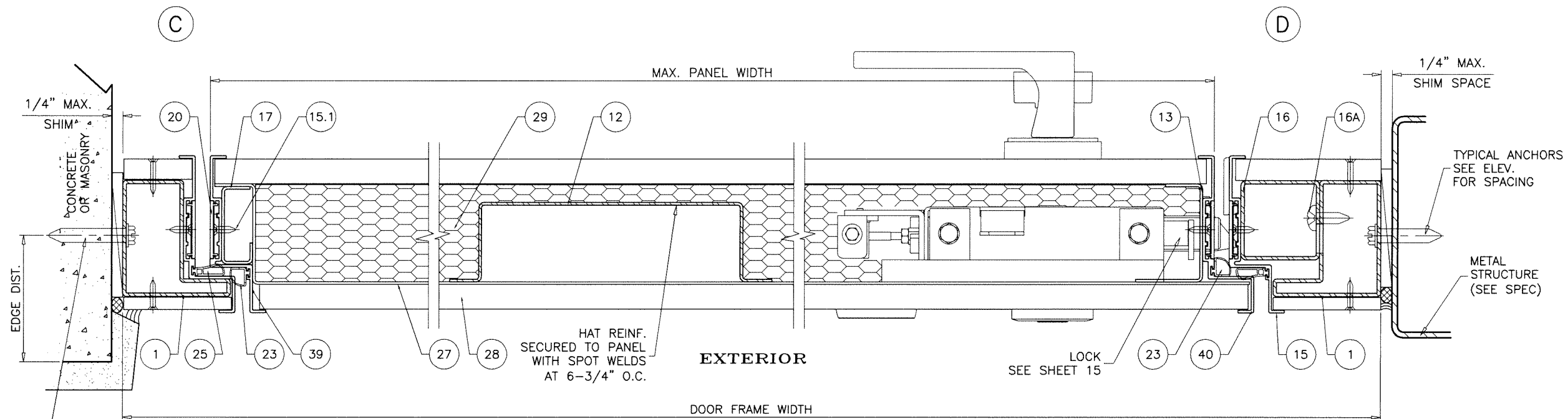
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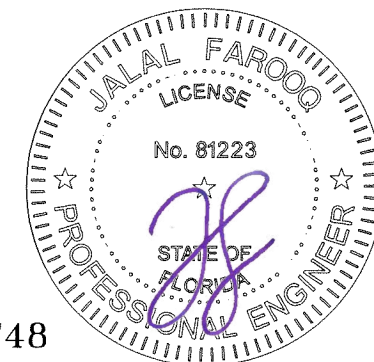
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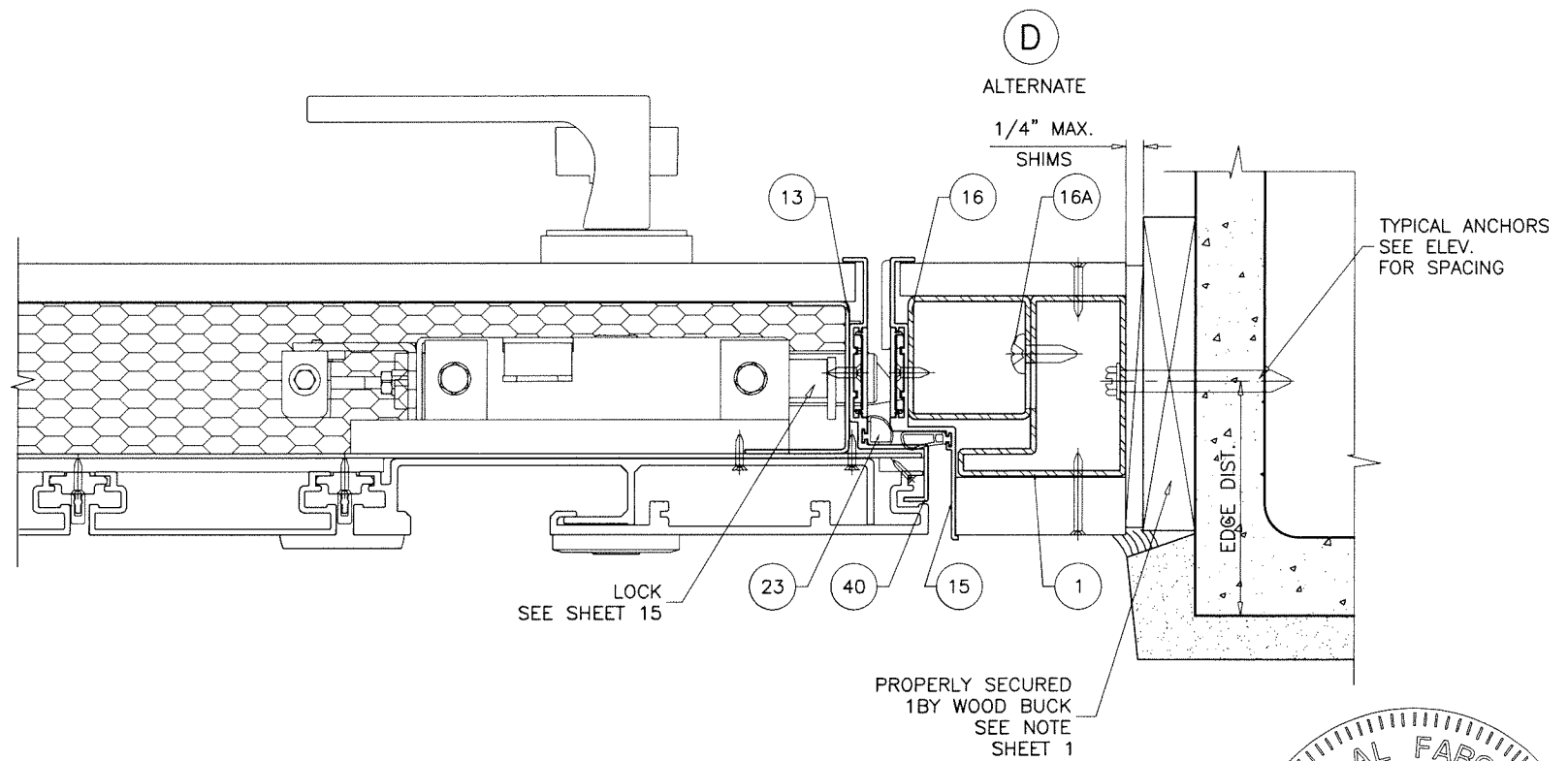
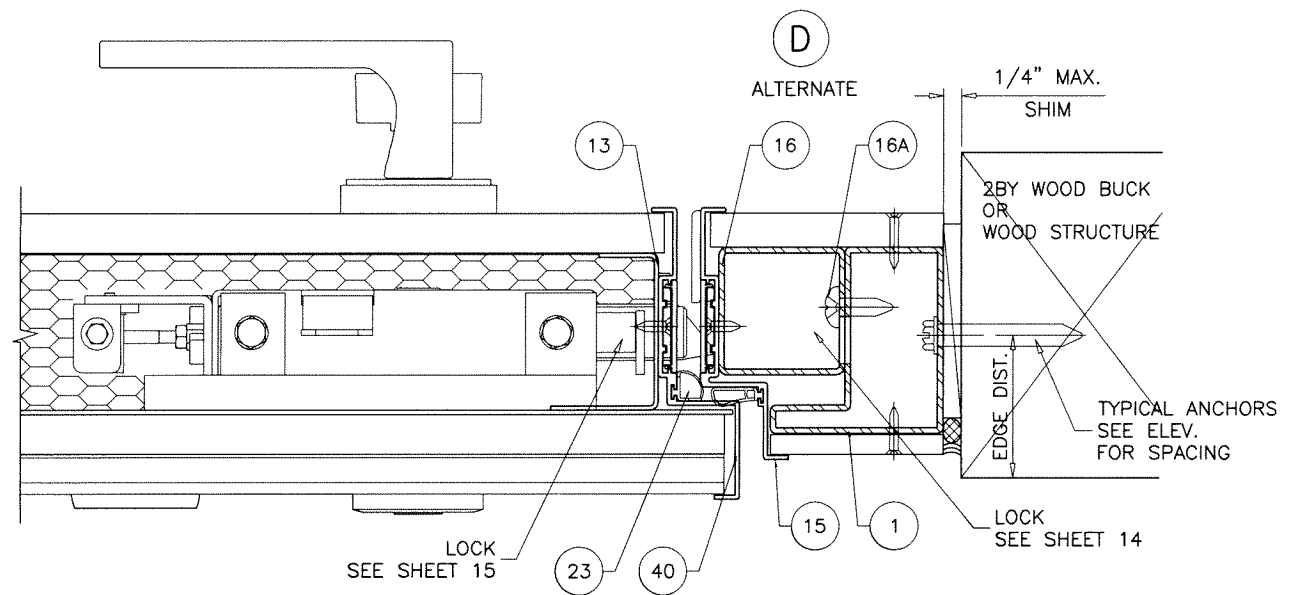


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A circular professional engineer seal for Jalal Farooq. The outer ring contains the text "JALAL FAROOQ" at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by two stars. Inside the ring, the word "LICENSE" is at the top and "STATE OF FLORIDA" is at the bottom, also separated by two stars. In the center, the license number "No. 81223" is printed above a large, stylized purple signature.

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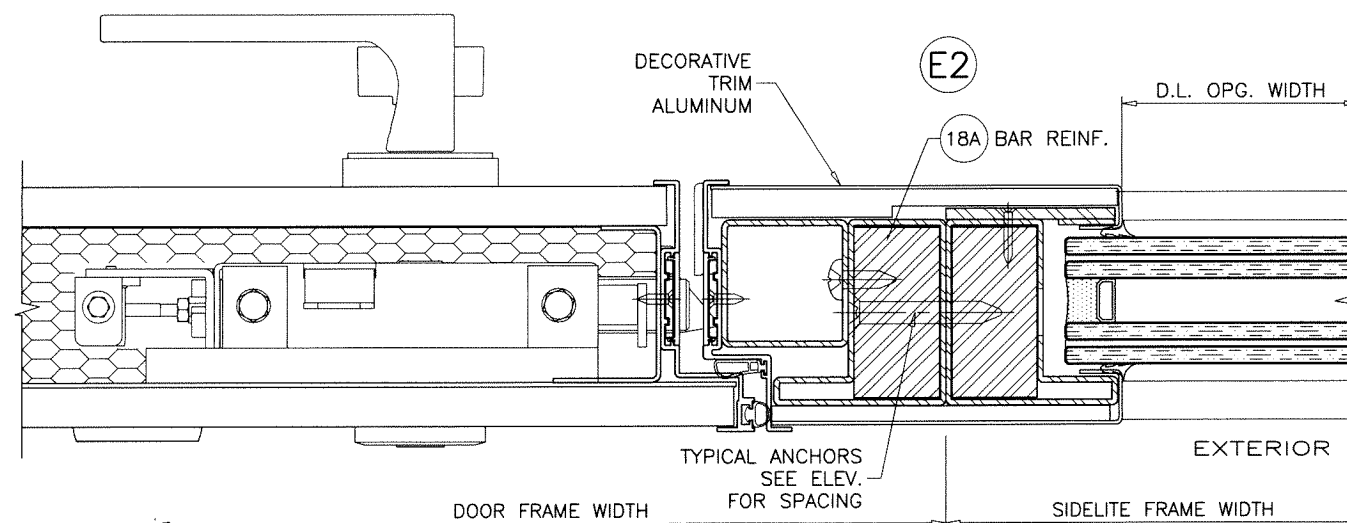
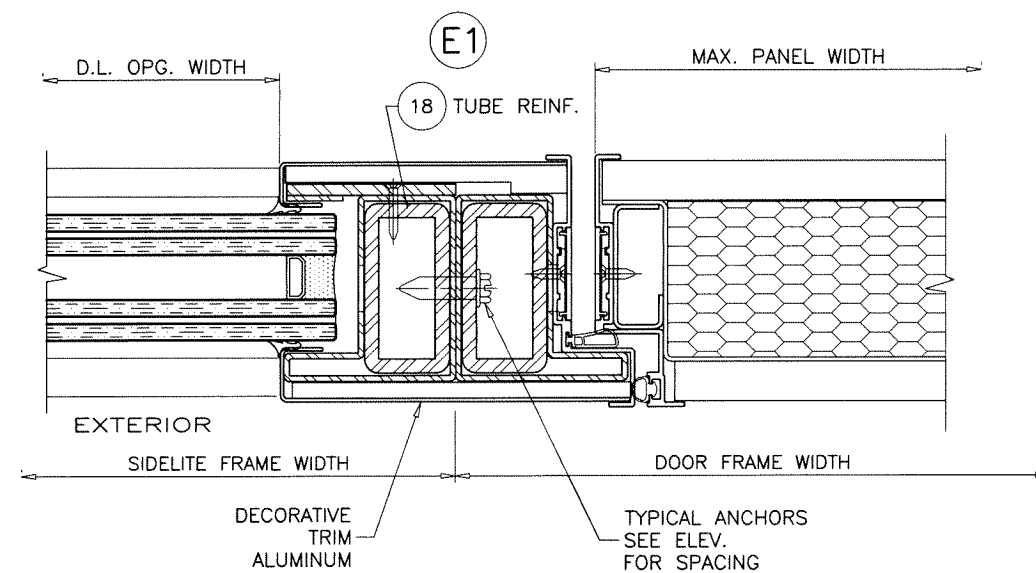
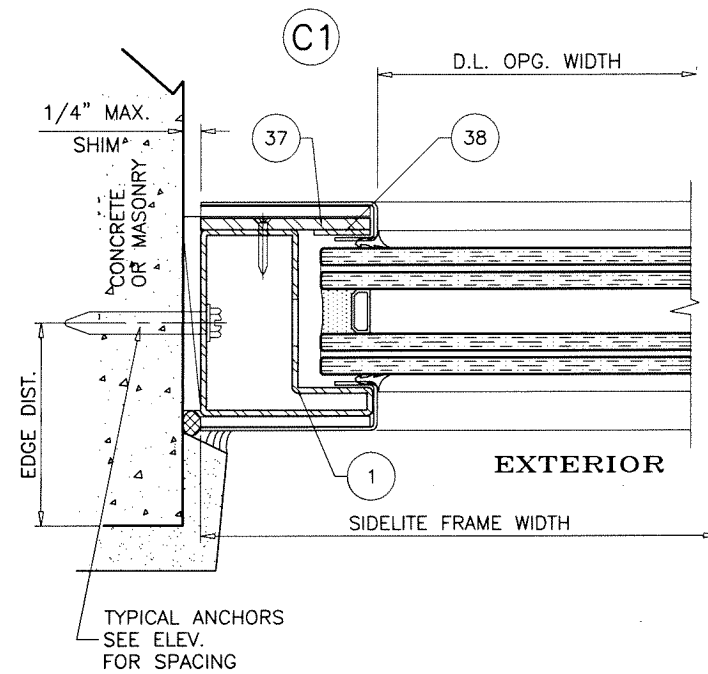
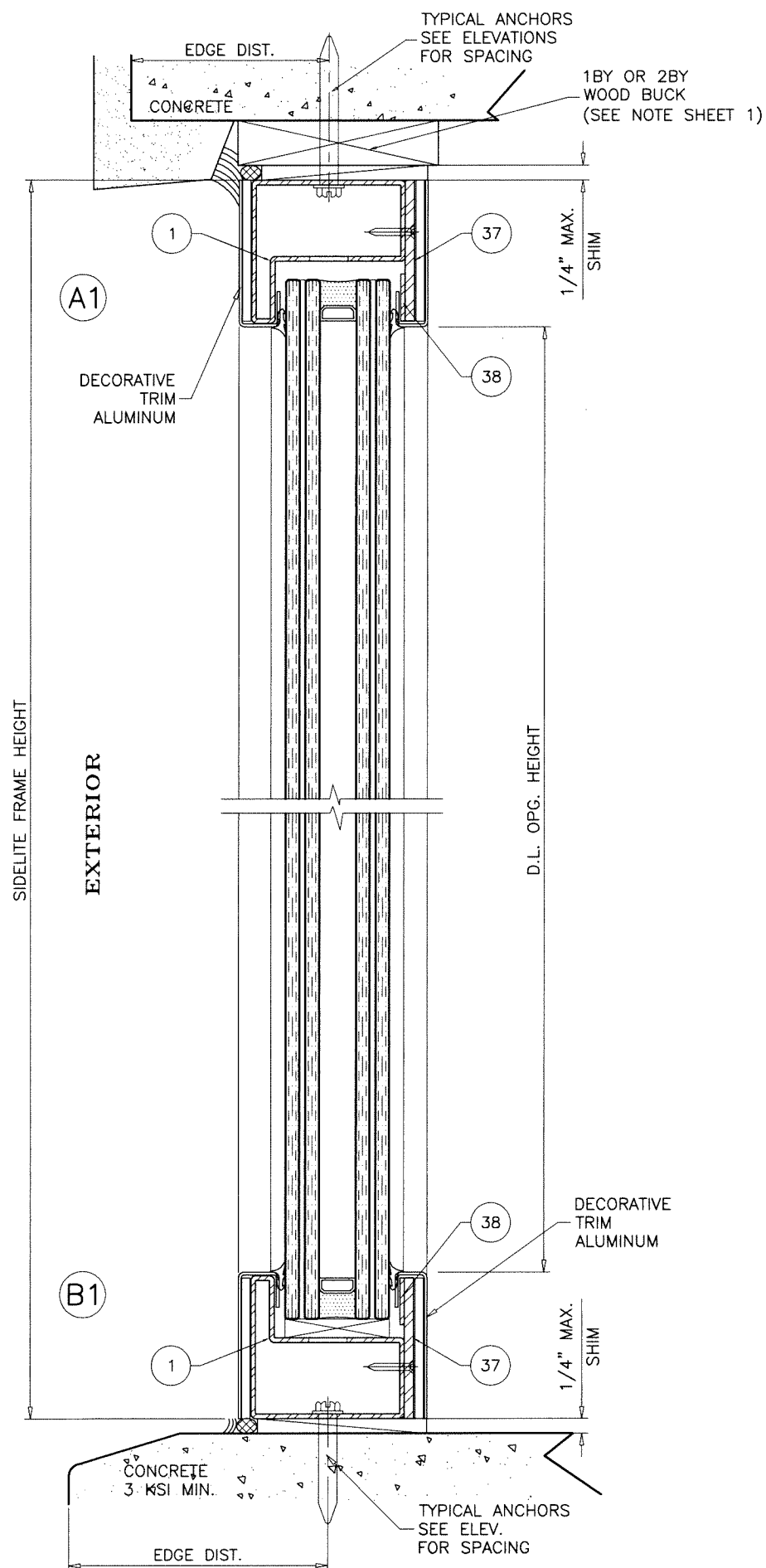
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SERIES 'SYNUA-12' OUTSWING PIVOT DOOR (L.M.I.)

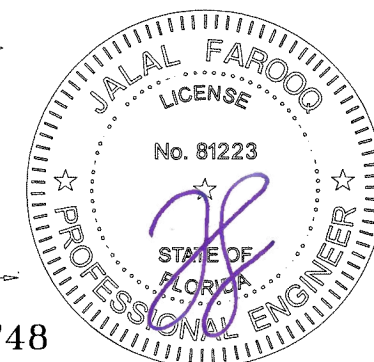
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chk. by:			
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SERIES 'SYNUA-12' OUTSWING PIVOT DOOR (L.M.I.)

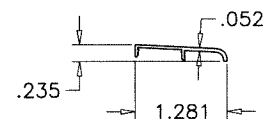
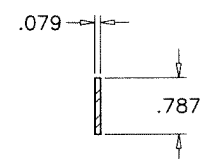
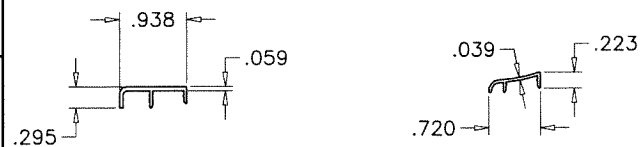
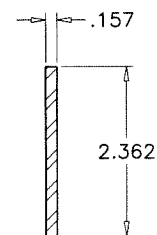
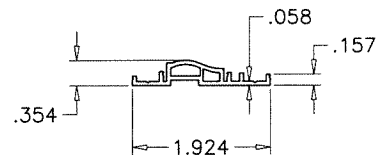
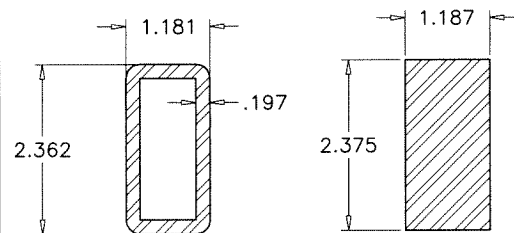
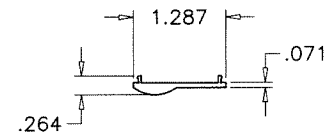
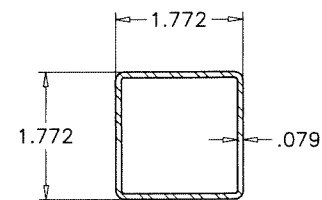
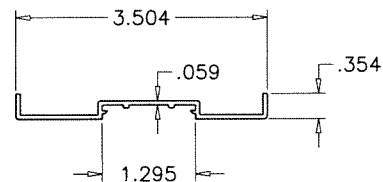
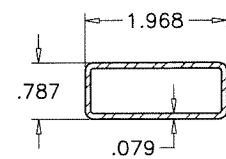
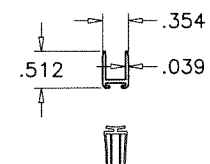
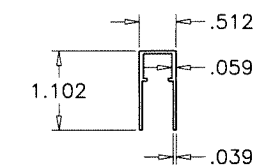
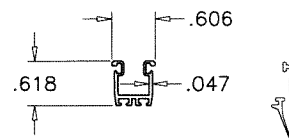
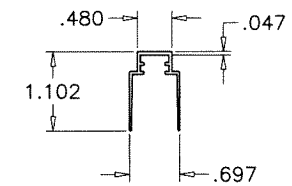
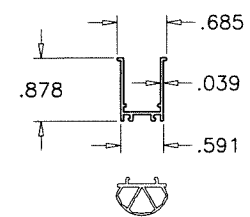
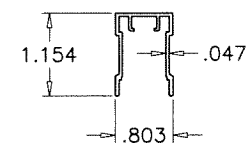
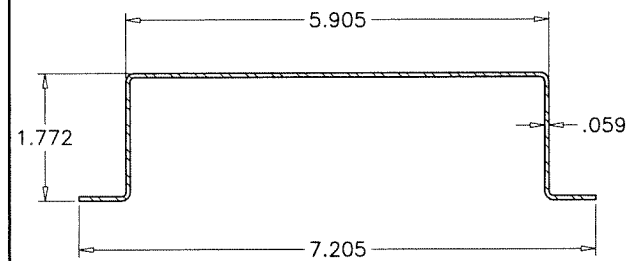
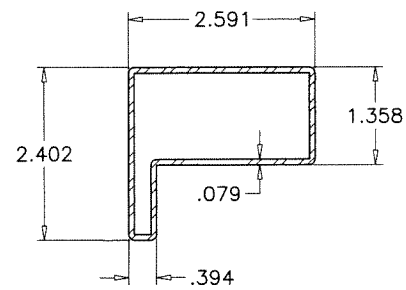
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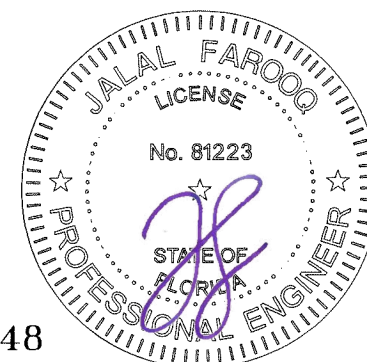
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drawing no. 22-39F

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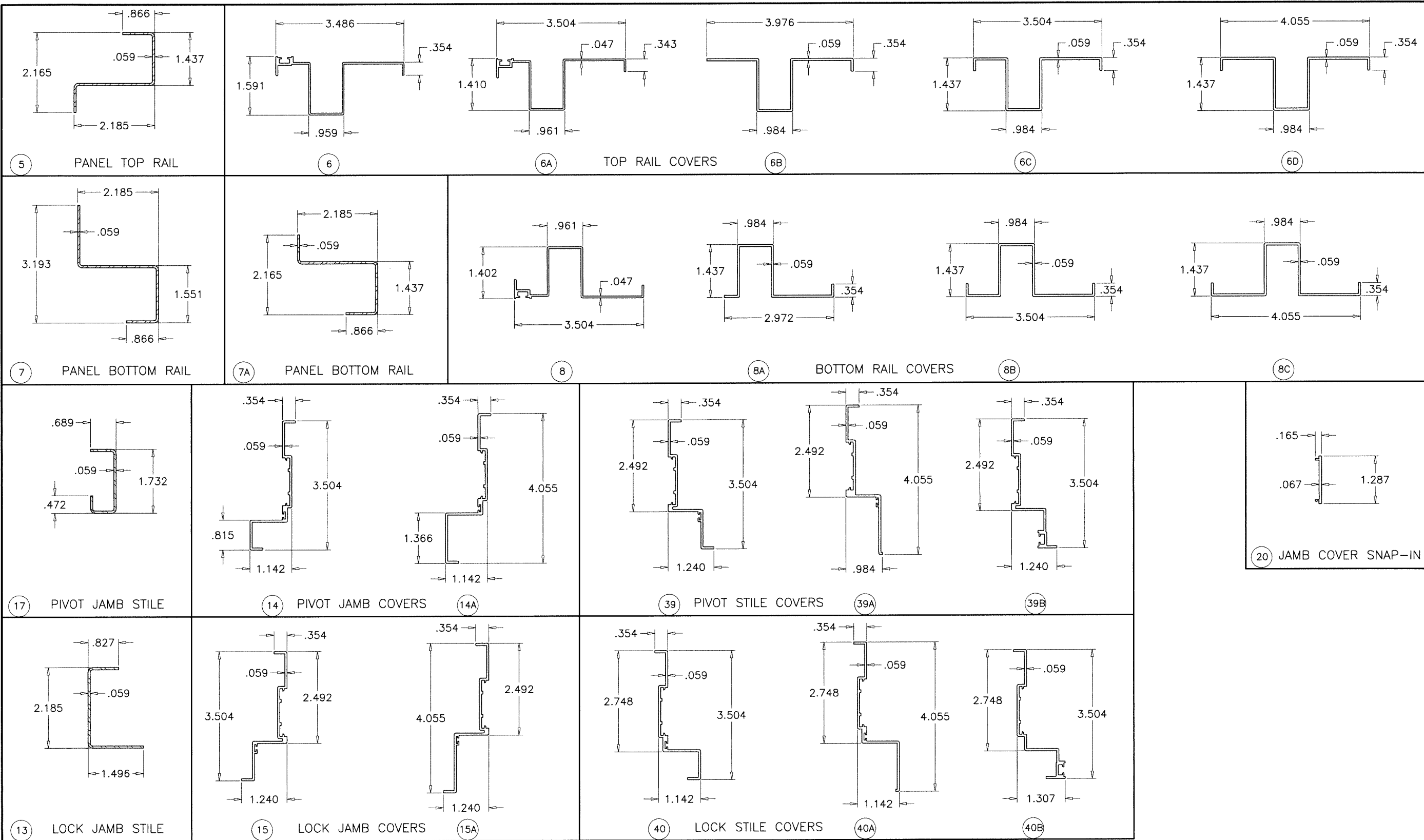
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dr. by: TARIQ			
chk. by:			

drawing no.

22-39F

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no	date by description

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dr. by: TARIQ

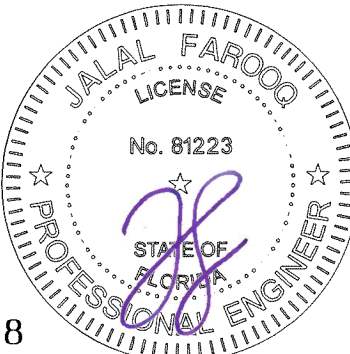
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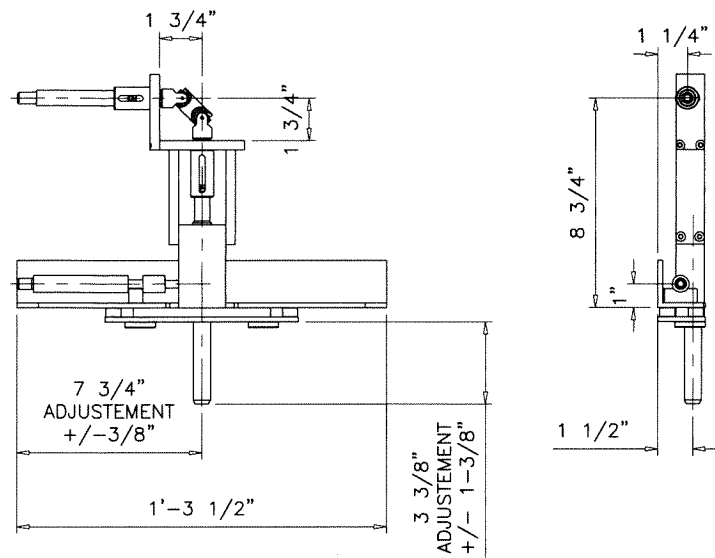
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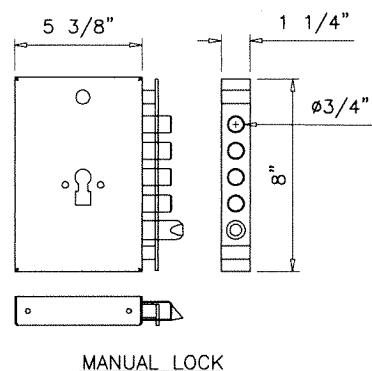
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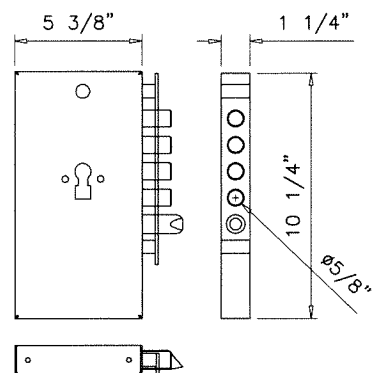
FL #41748



30 PIVOT HINGE
SCALE 1/8" = 1"



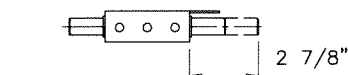
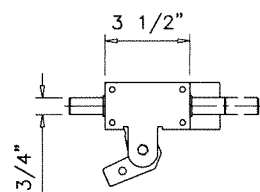
MANUAL LOCK



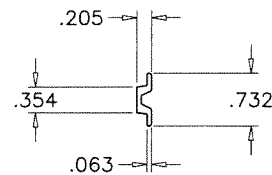
MOTORIZED LOCK

31 5 POINT CENTER LOCK
SCALE 1/8" = 1"

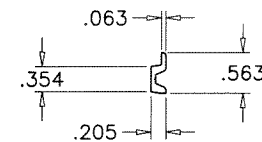
5 POINT CENTER LOCK (#31) CONNECTED TO TOP, BOTTOM & SIDE
SINGLE POINT LOCKS (#32) WITH CONNECTING RODS (#33)



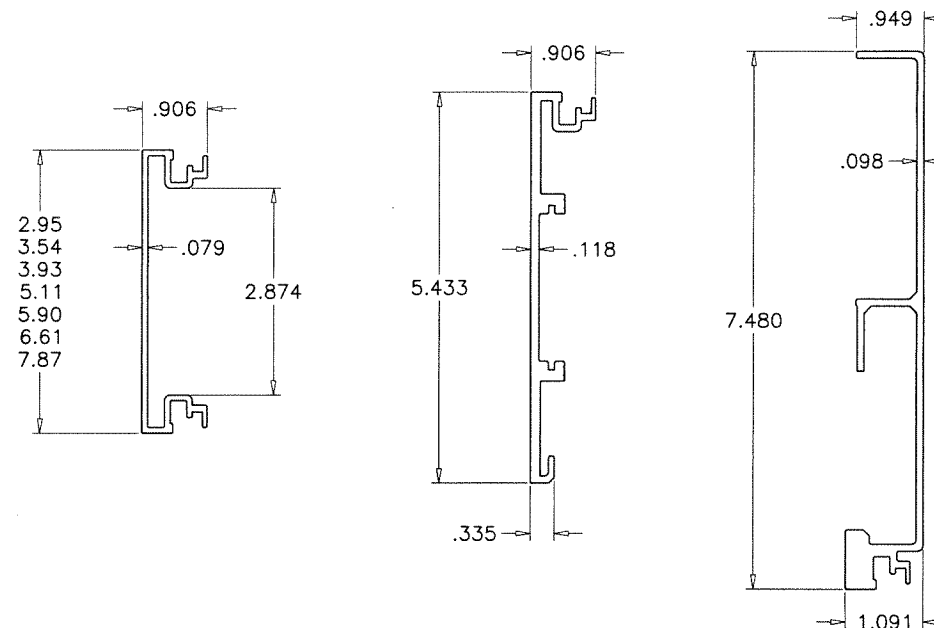
32 SINGLE POINT LOCK
SCALE 1/8" = 1"



34 INTERMEDIATE CLADDING CLIP

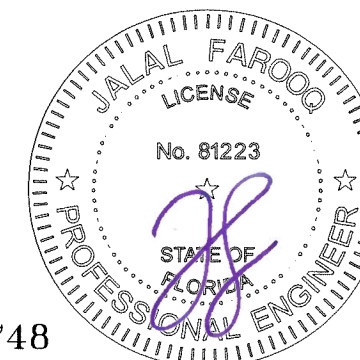


35 TOP/BOTTOM CLADDING CLIP



41 SKYDOOR SLAT PROFILES

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