

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

SERIES 'SYNUA-12'
INSWING 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 2023 (8TH EDITION)/2026 (9TH 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 LOAD-BEARING, (HIGH DENSITY PLASTIC/COMPOSITE, METAL
OR OTHER RIGID MATERIALS).

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT
COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE
REQUIREMENTS OF THE 2023/2026 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 E1300-16 (3 SEC. GUSTS)
AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCA05-DEC-219

FASTENERS AND CONNECTORS (AS APPLICABLE) SHOWN IN THIS APPROVAL MAY NOT MEET
CORROSION RESISTANCE REQUIREMENTS FOR COASTAL OR SALT WATER EXPOSURE ZONES.
COMPLIANCE WITH THESE CONDITIONS TO BE CHECKED PER FBC 1711.

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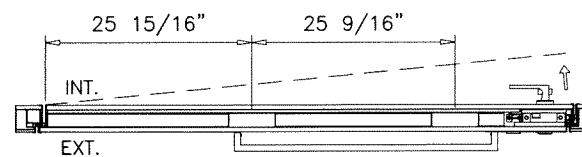
A- CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND
INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION
PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED
ON THIS DOCUMENT.
B- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF
ALTERED BY ANY MEANS.
C- SITE 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.



date: 09-23-22		drawing no. 22-37F	
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dr. by: TARIQ			
chk. by:			
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A	09.25.23		UPDATED TO 2023 FBC
A	10.01.26		UPDATED TO 2026 FBC

SERIES 'SYNUA-12' INSWING 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

AL-FAROOQ CORPORATION	
ENGINEERS & PRODUCT DEVELOPMENT	
9360 SUNSET DRIVE, SUITE 220	
MIAMI, FLORIDA 33173	
TEL. (305) 264-8100	WWW.AFCENG.COM
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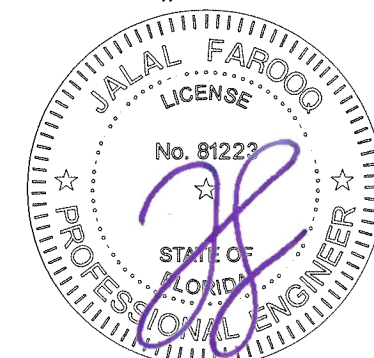
NOTE:
APPLICABLE EGRESS REQUIREMENTS TO BE REVIEWED BY AHJ.



TYPICAL ELEVATION
(STAND ALONE SIDELITE)

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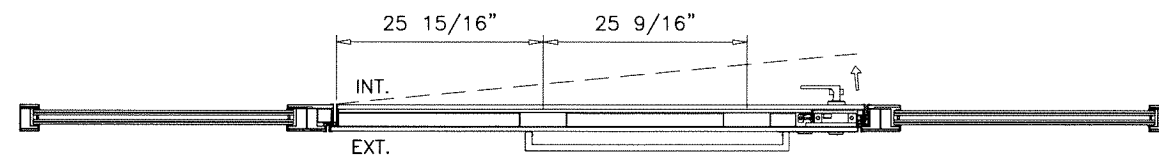
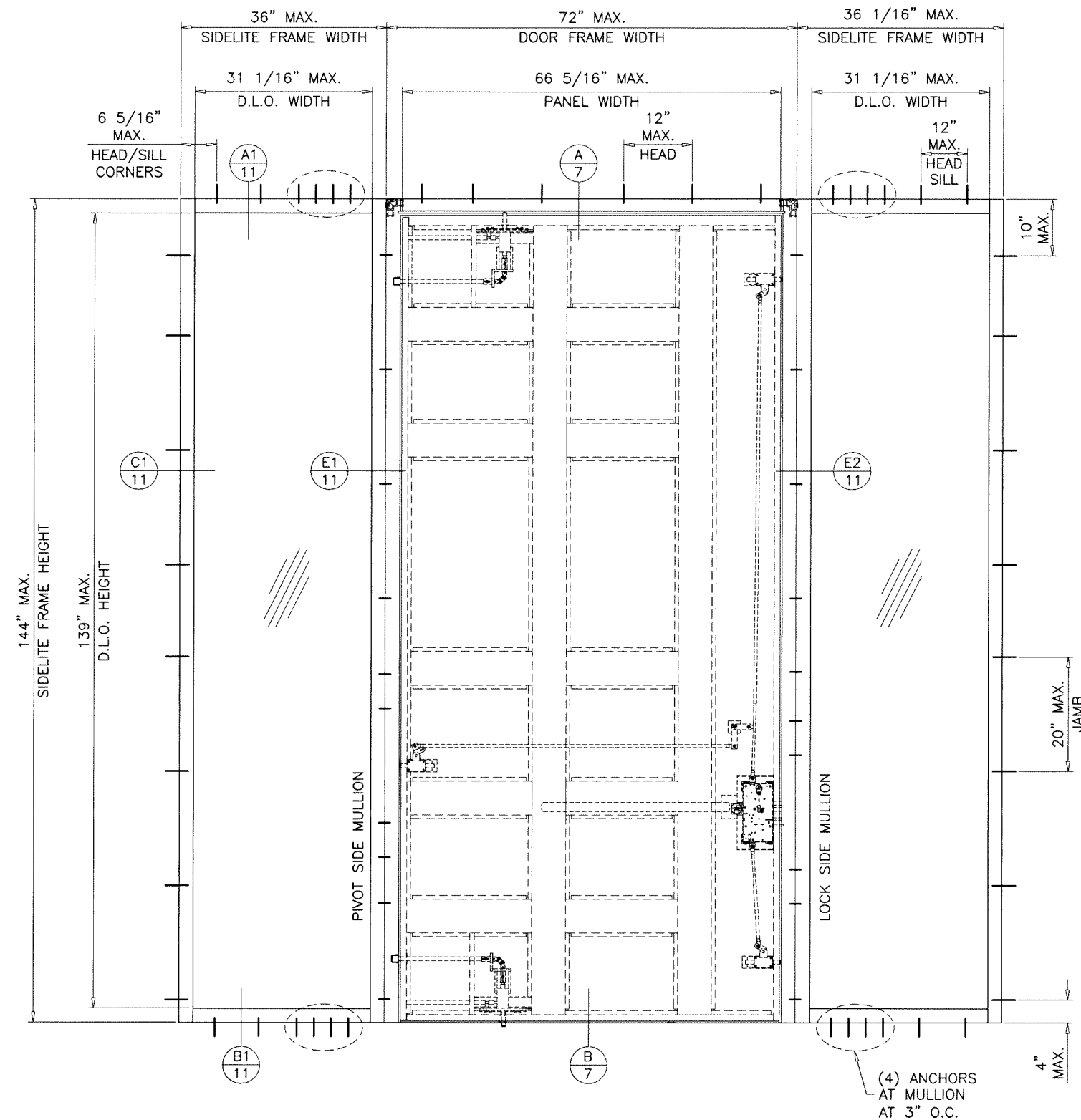
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TYPICAL ELEVATION
(0-X-0)

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"	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
132"			52.3	52.3	65.0	65.0	62.5	62.5	65.0	65.0
144"			41.6	41.6	56.3	56.3	49.6	49.6	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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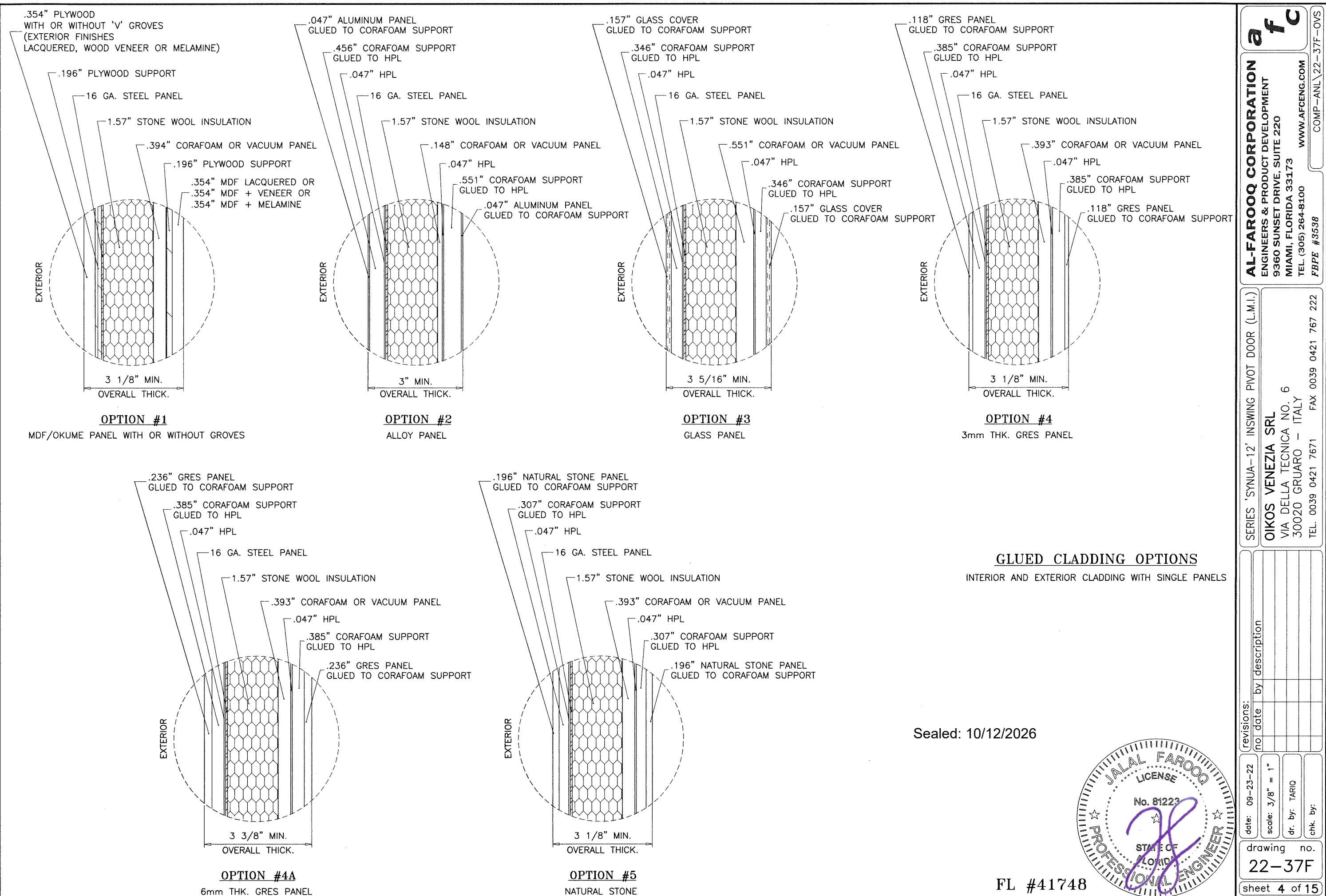
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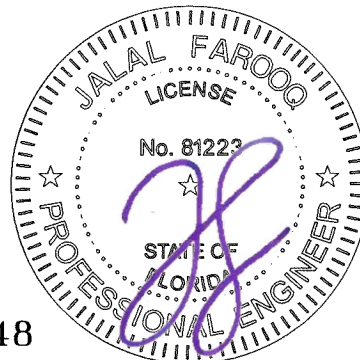
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GLUED CLADDING OPTIONS
INTERIOR AND EXTERIOR CLADDING WITH SINGLE PANELS

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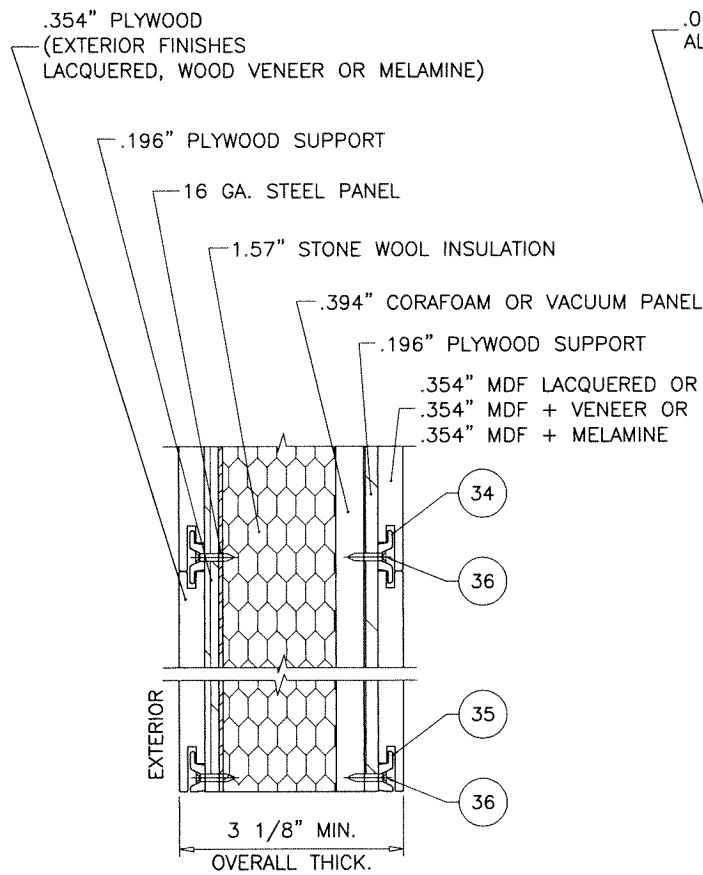
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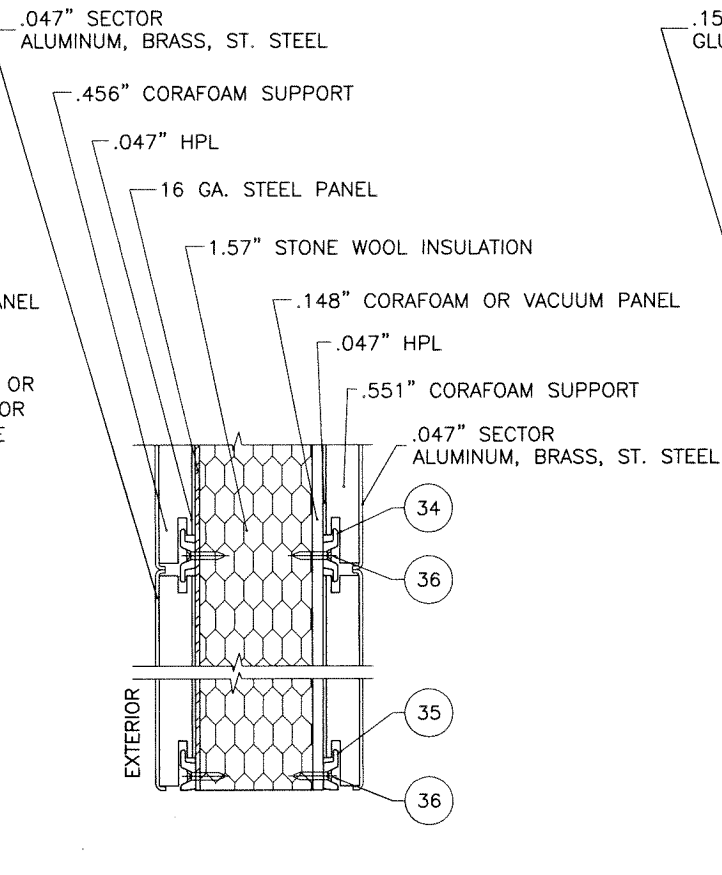
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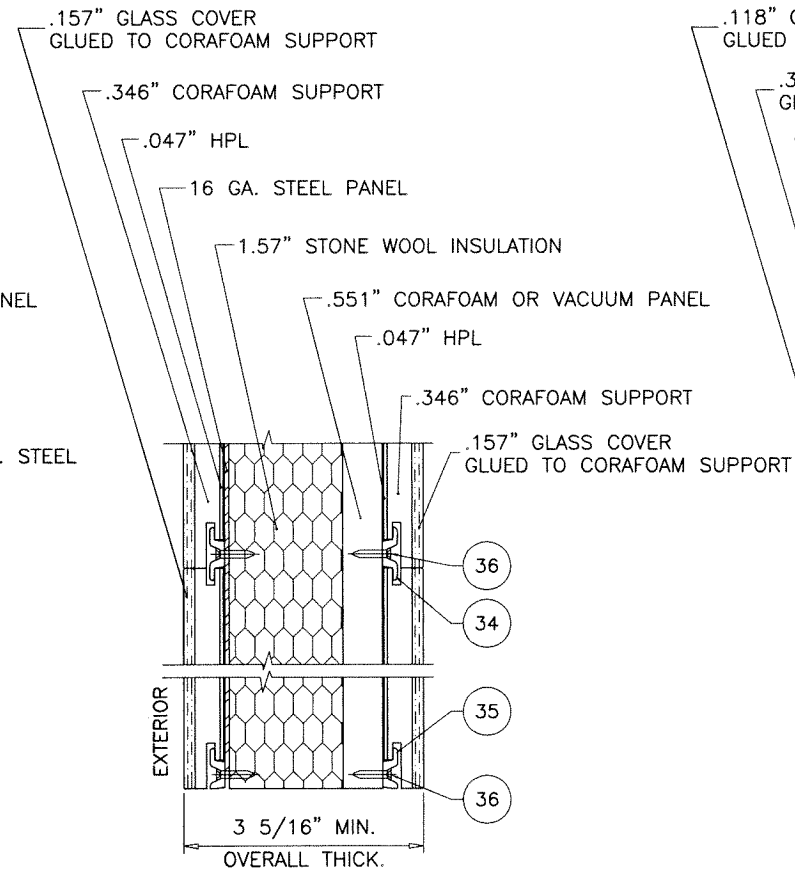
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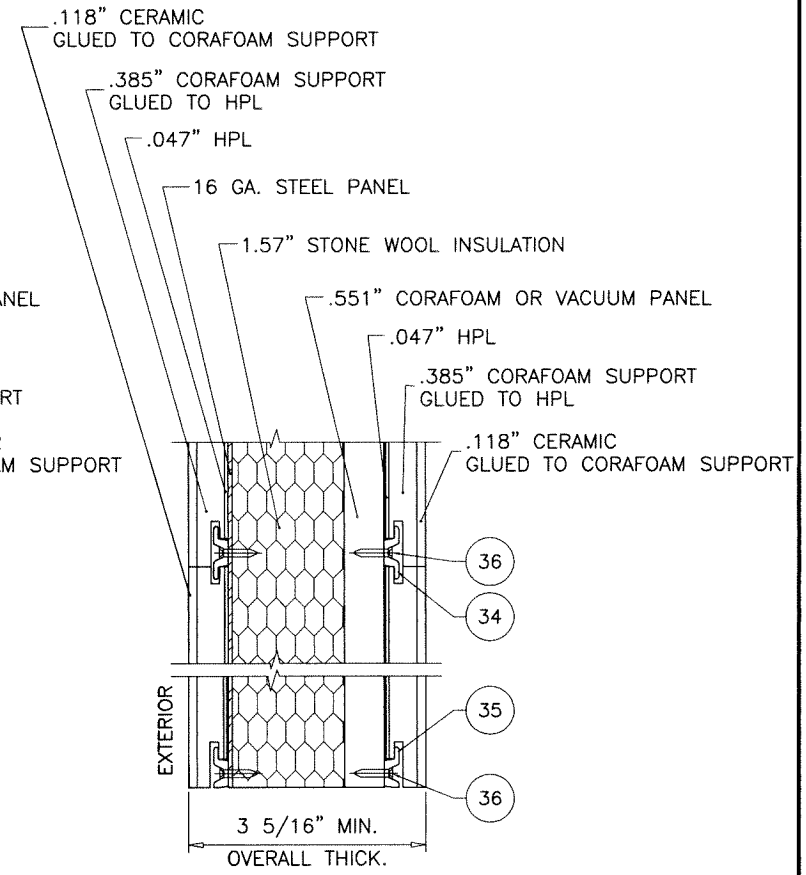
OPTION #1
MDF/PLYWOOD SECTOR



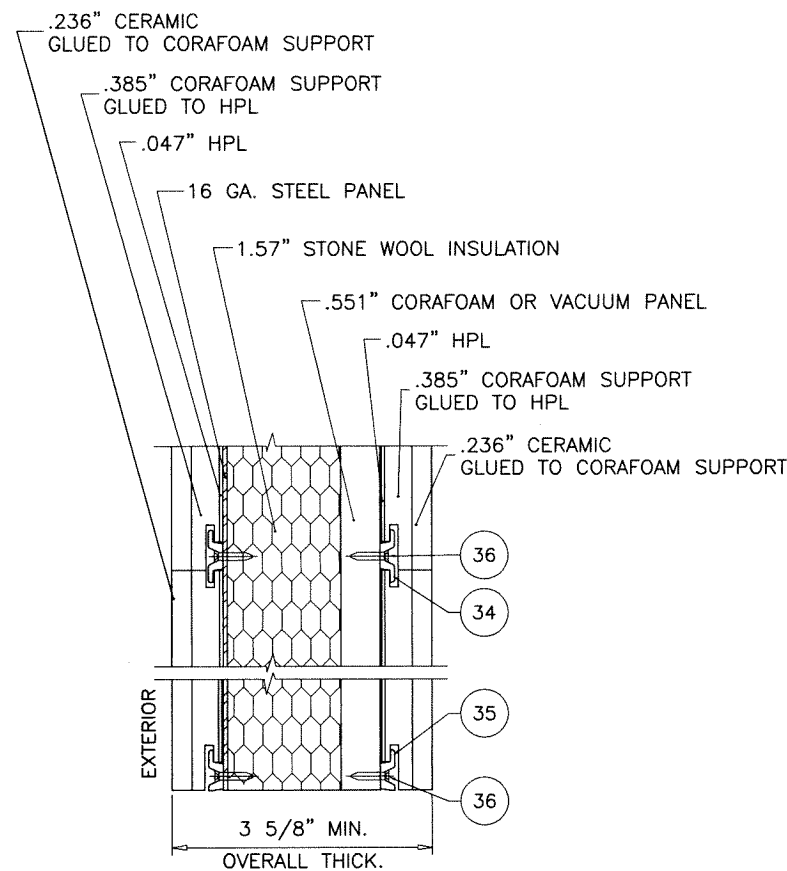
OPTION #2
ALLOY SECTOR



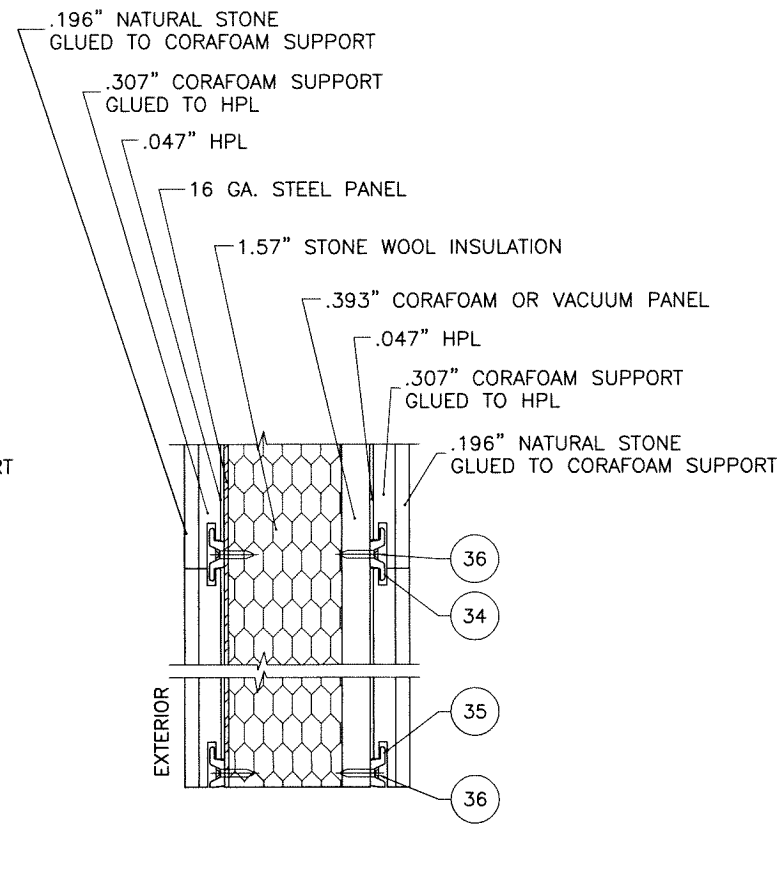
OPTION #3
GLASS SECTOR



OPTION #4
3mm THK. CERAMIC SECTOR



OPTION #4A
6mm THK. CERAMIC SECTOR

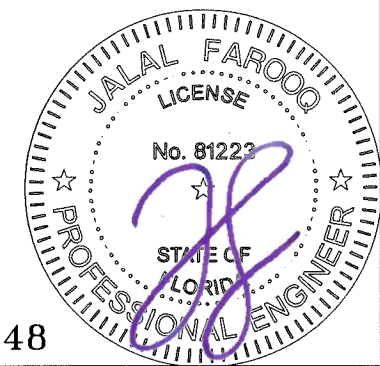


OPTION #5
NATURAL STONE SECTOR

MECHANICAL FASTENED CLADDING OPTIONS

INTERIOR AND EXTERIOR CLADDING WITH SECTORS
SECTOR WIDTH = LEAF WIDTH
SECTOR HEIGHT = (VARIES) 12\"/>

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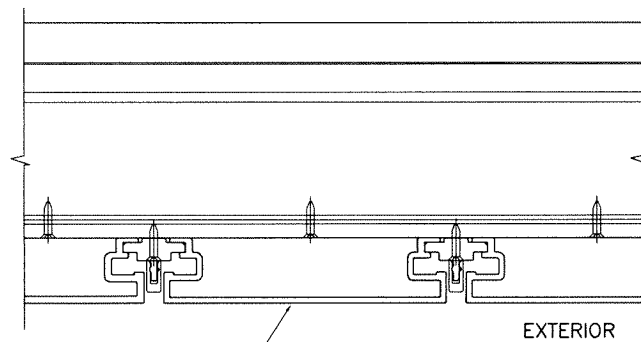
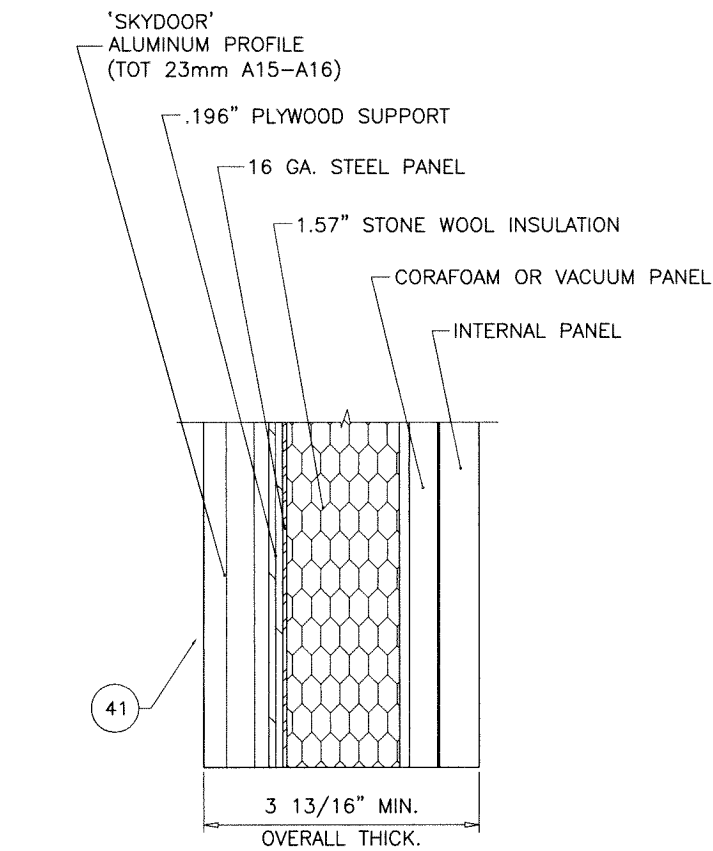


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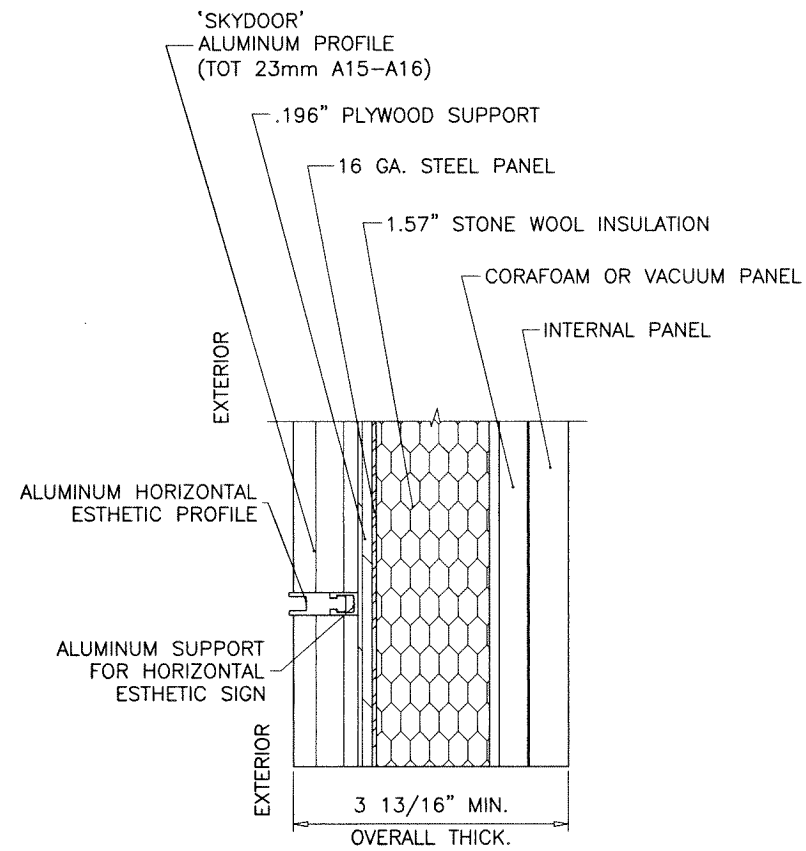
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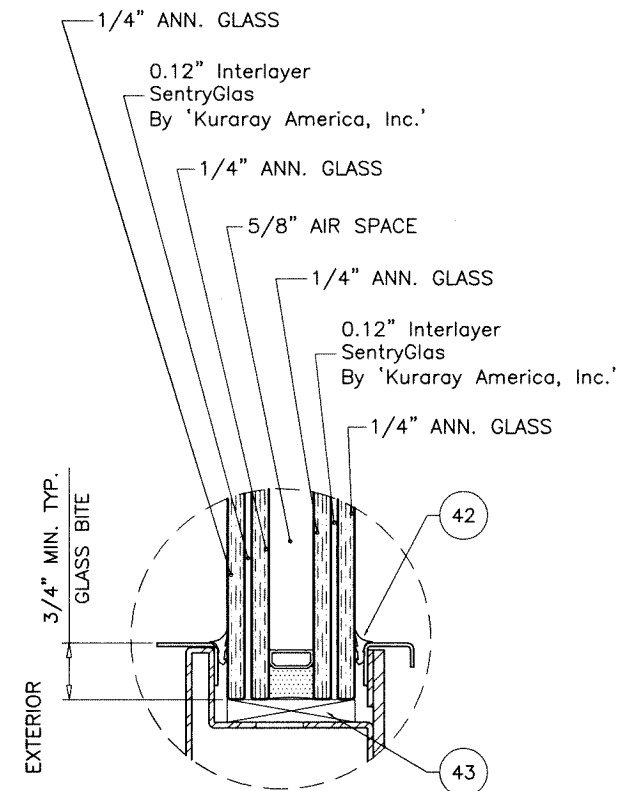
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OPTION #6
VERTICAL SECTOR (SKYDOOR)

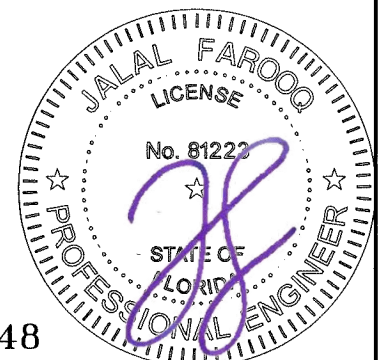


OPTION #7
HORIZONTAL PROFILE (SKYDOOR)



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

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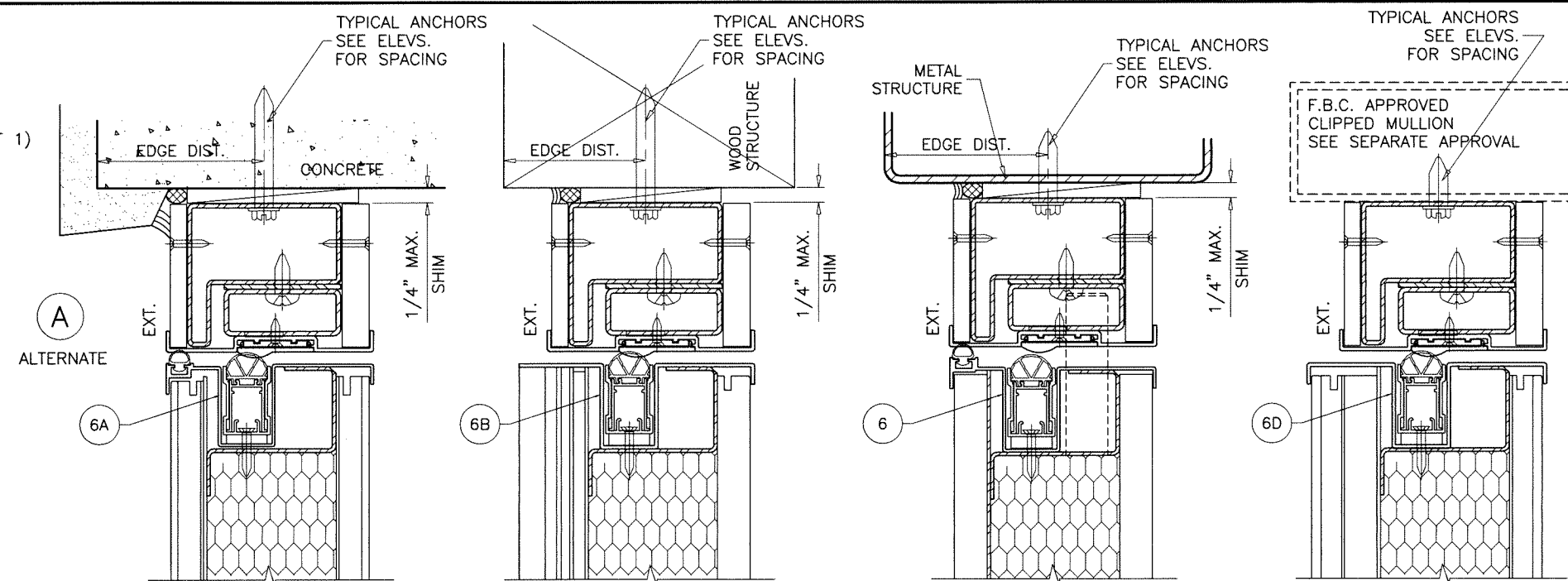
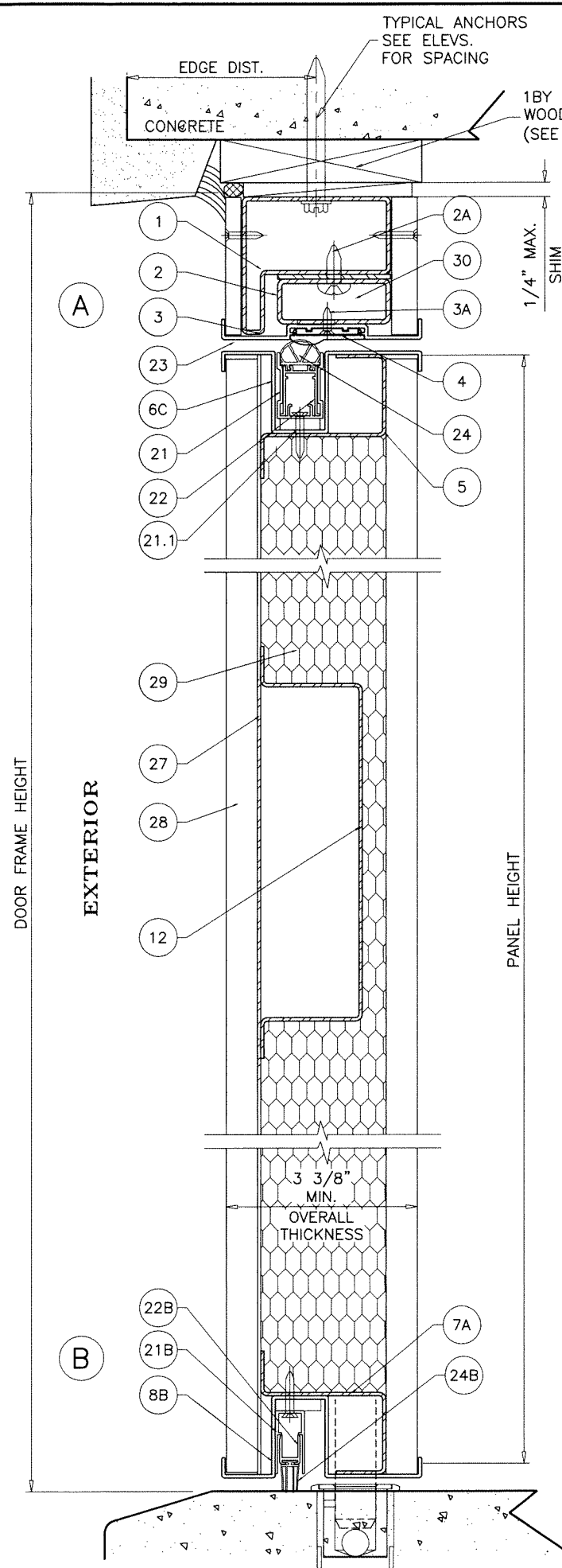
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TYPICAL ANCHORS AT HEAD/JAMBS: SEE ELEV. FOR SPACING

5/16" DIA. ULTRACON BY 'DEWALT' ($F_u=177$ KSI, $F_y=155$ 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. ($F_y = 36$ 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' ($F_u=164$ KSI, $F_y=117$ 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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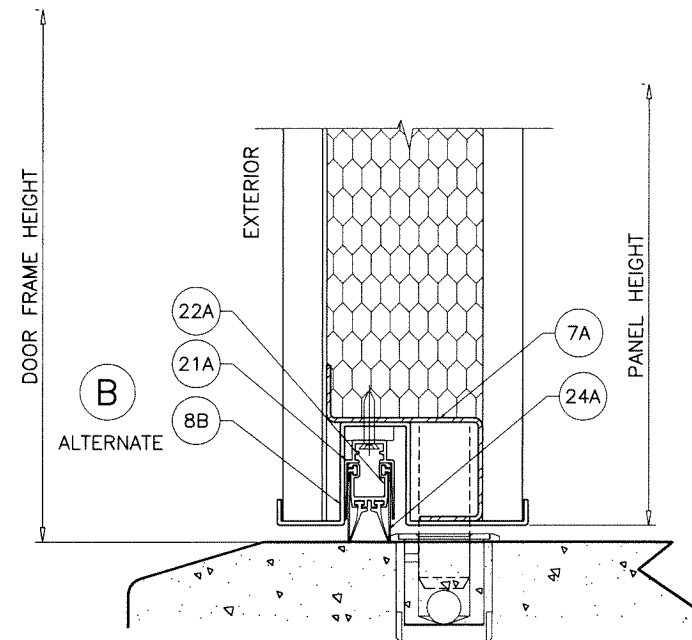
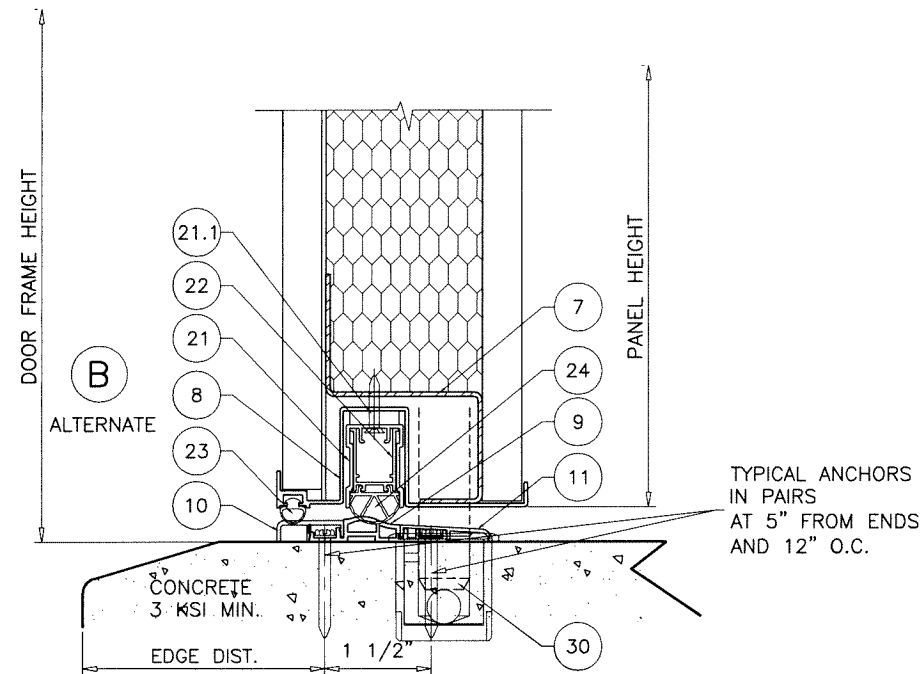
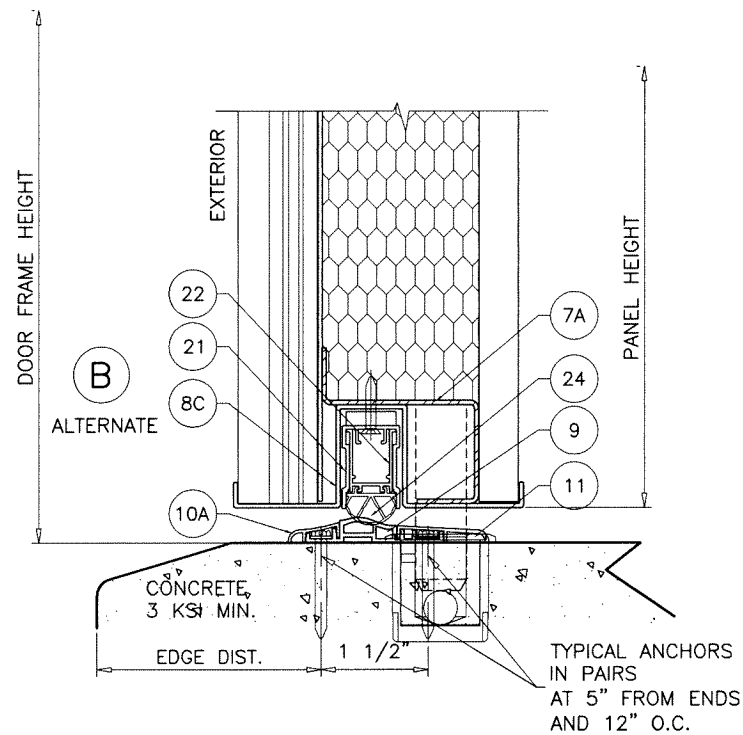
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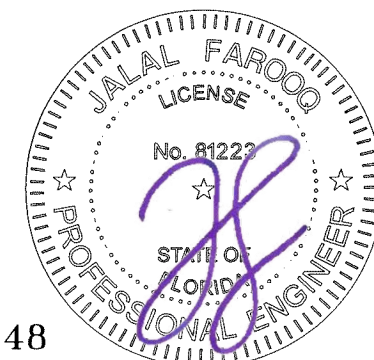
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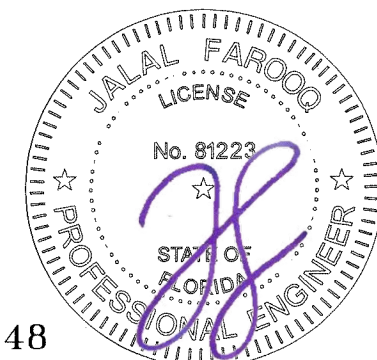
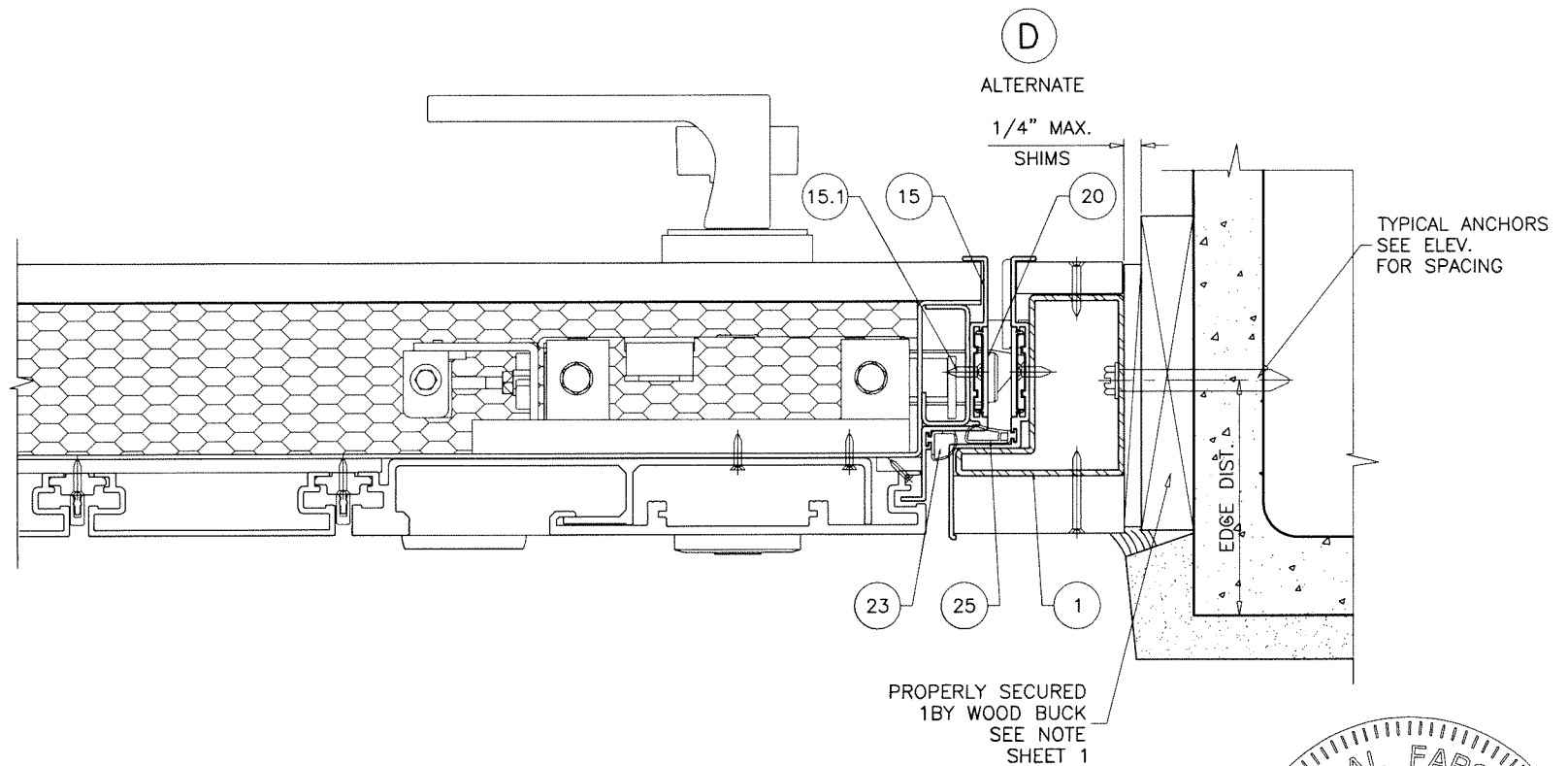
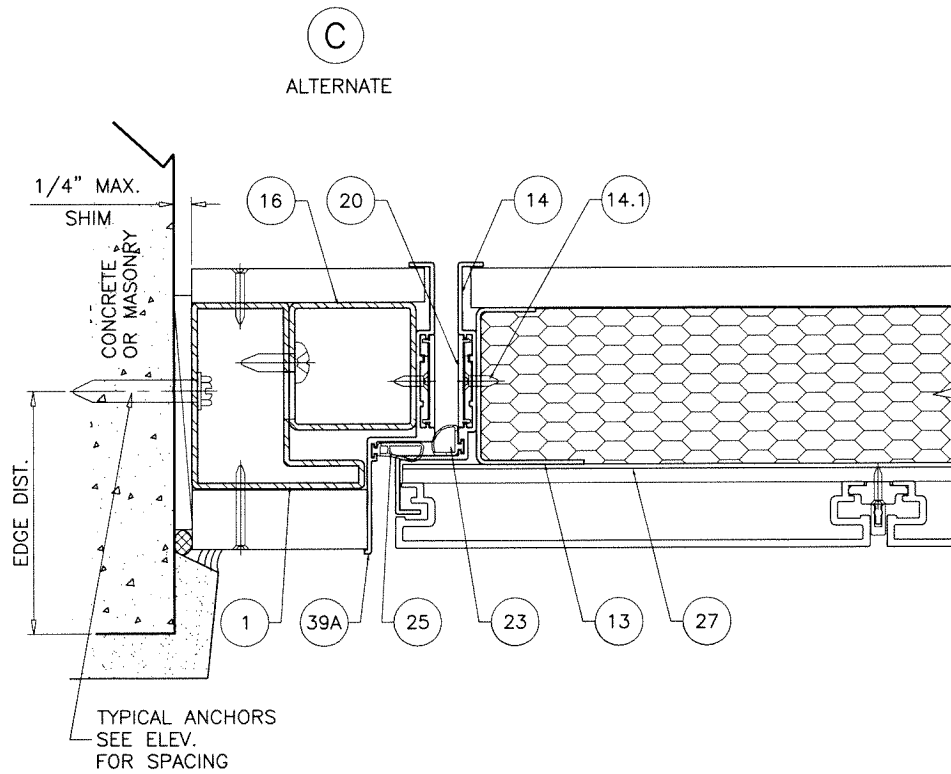
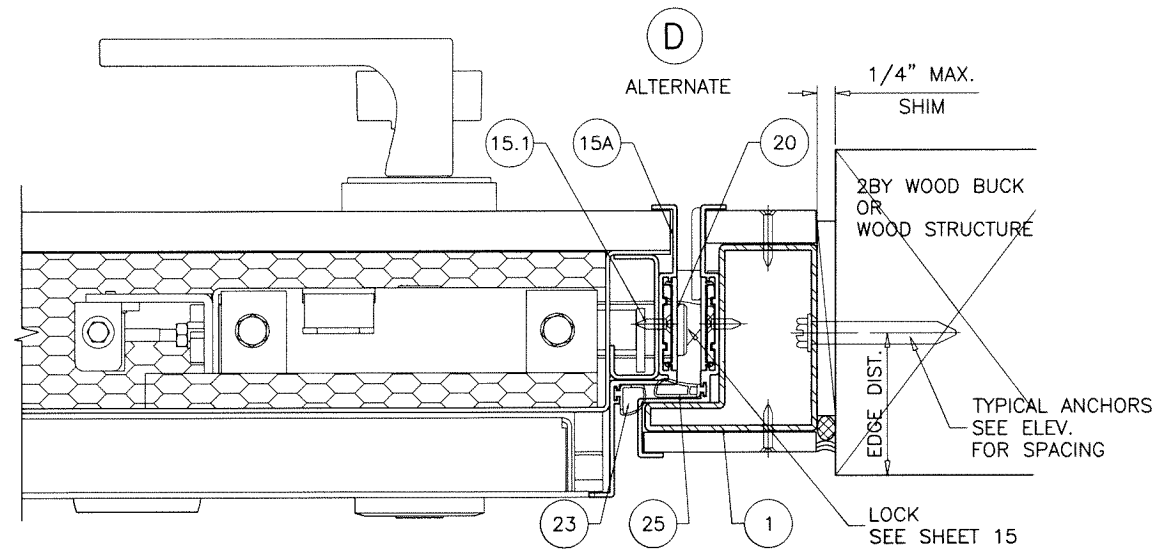
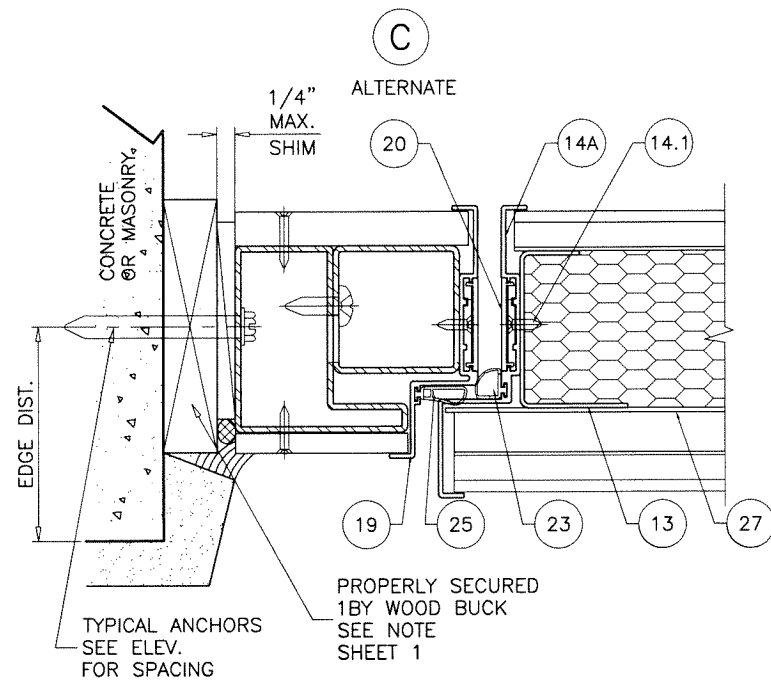
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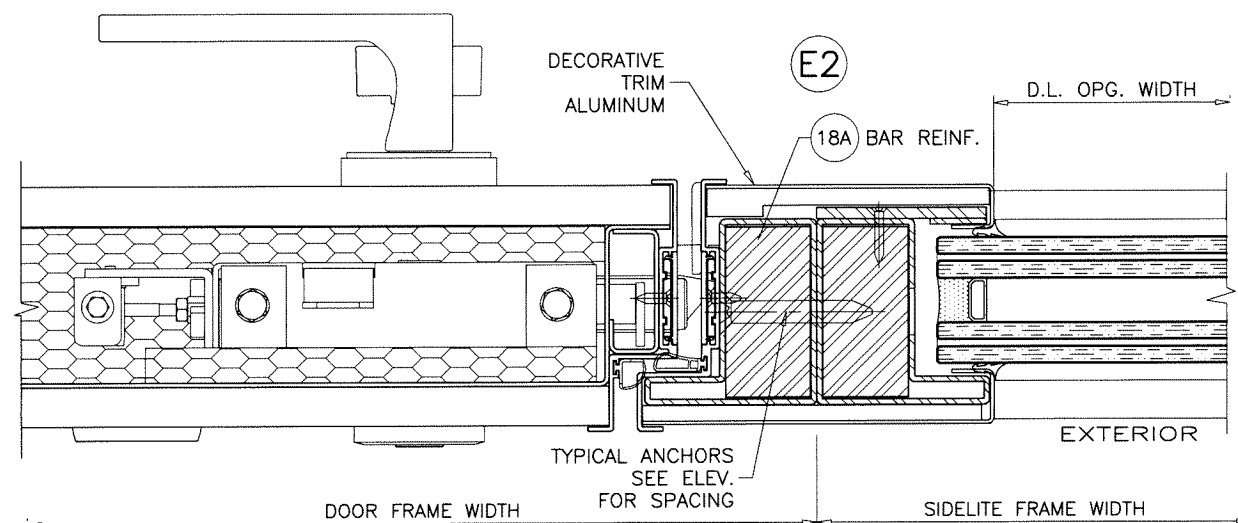
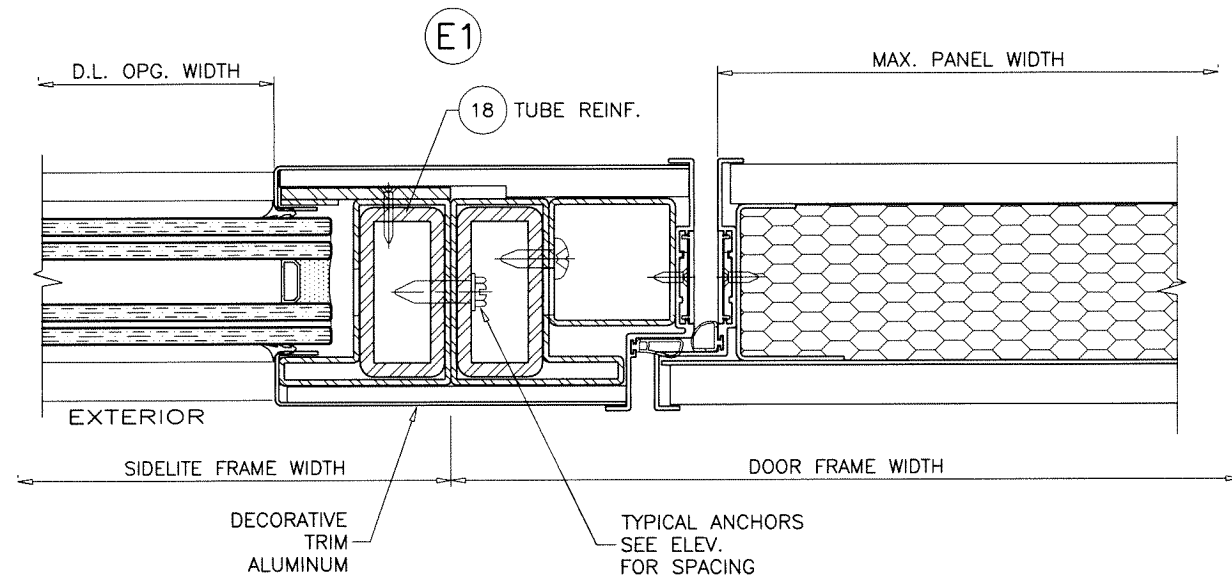
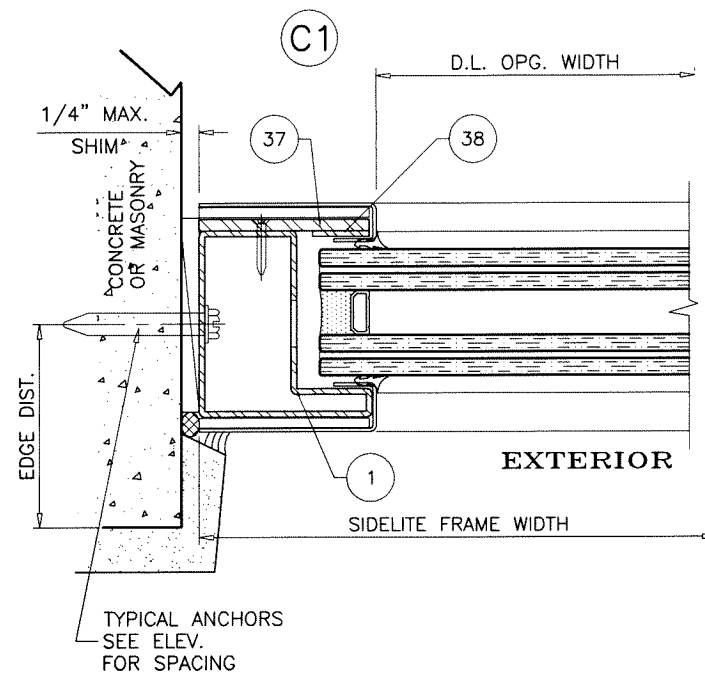
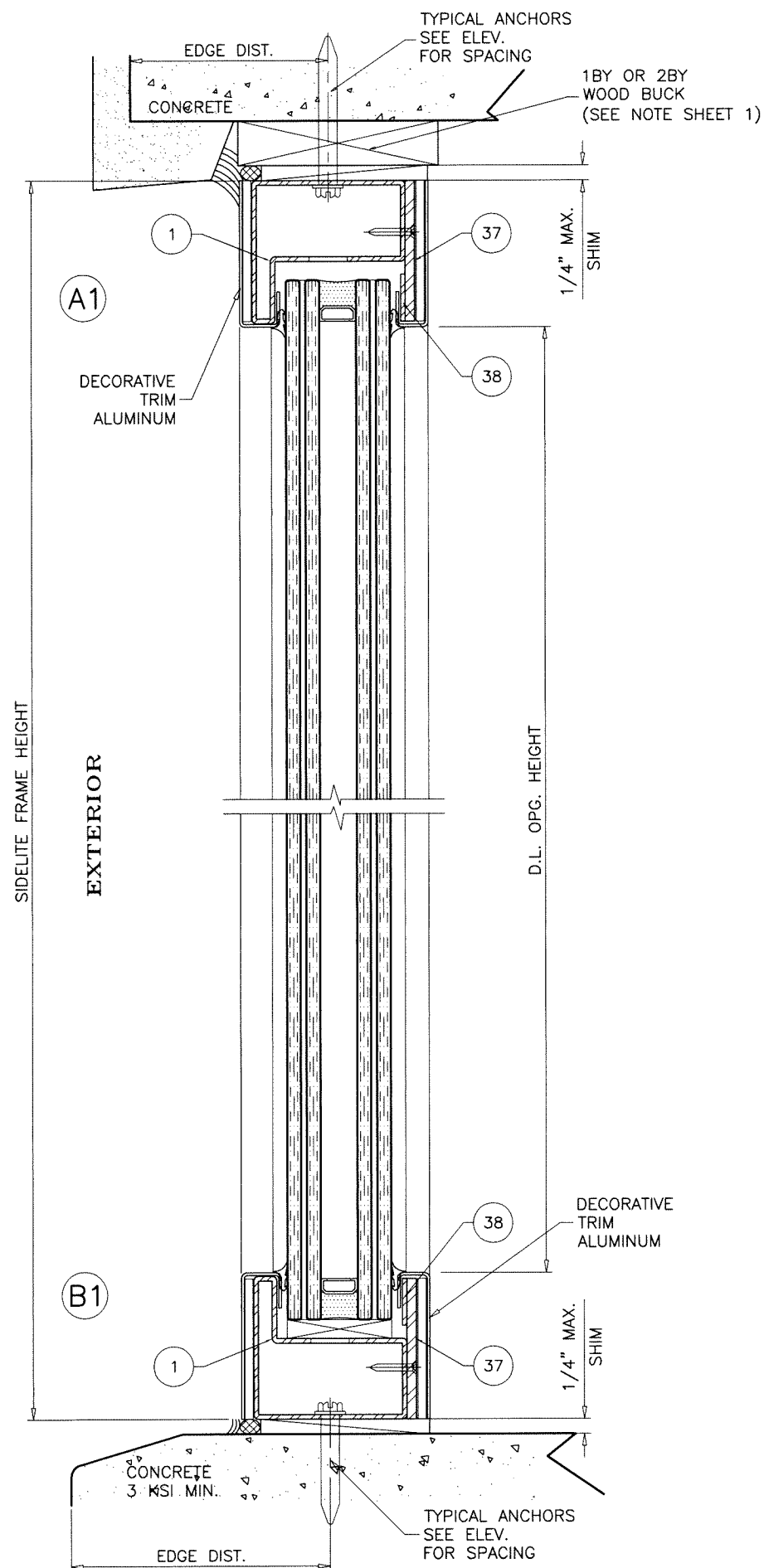
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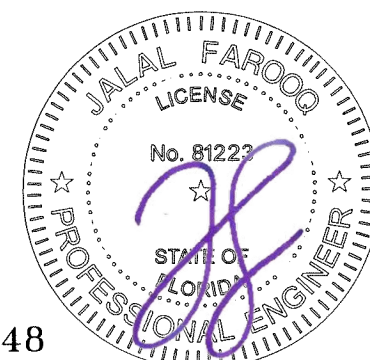
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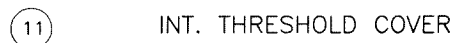
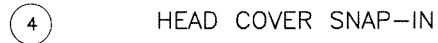
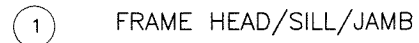
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sheet 11 of 15			



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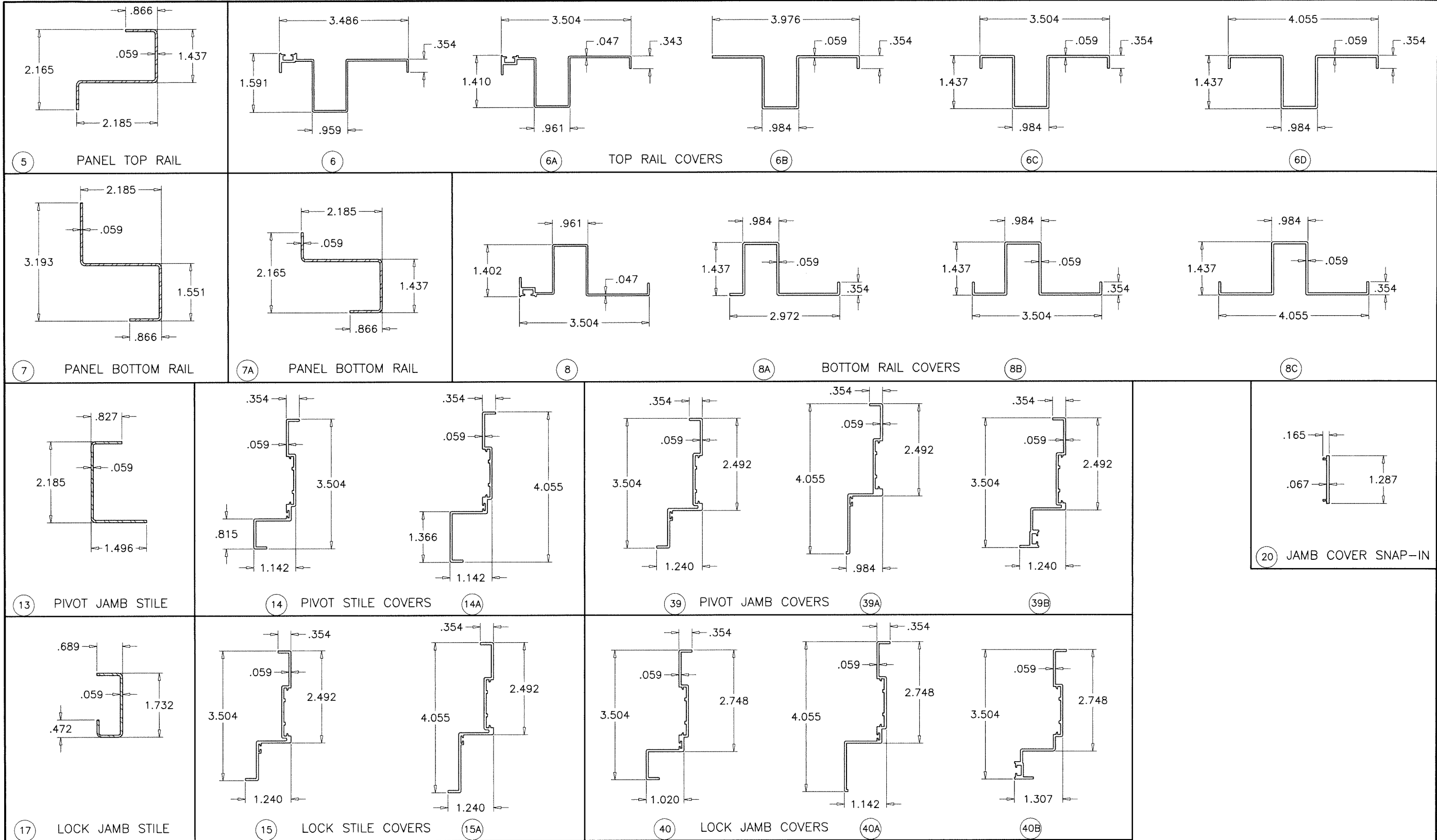
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100
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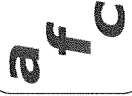
SERIES 'SYNUA-12' INSWING PIVOT DOOR (L.M.I.)

OIKOS VENEZIA SRL
VIA DELLA TECNICA NO. 6
30020 GRUARO - ITALY

TEL. 0039 0421 7671 FAX 0039 0421 767 222

date: 09-23-22		revisions:	
scale: 3/8" = 1"		no	date
dr. by: TARIQ		by	description
chk. by:			
drawing no.			
22-37F			
sheet 12 of 15			





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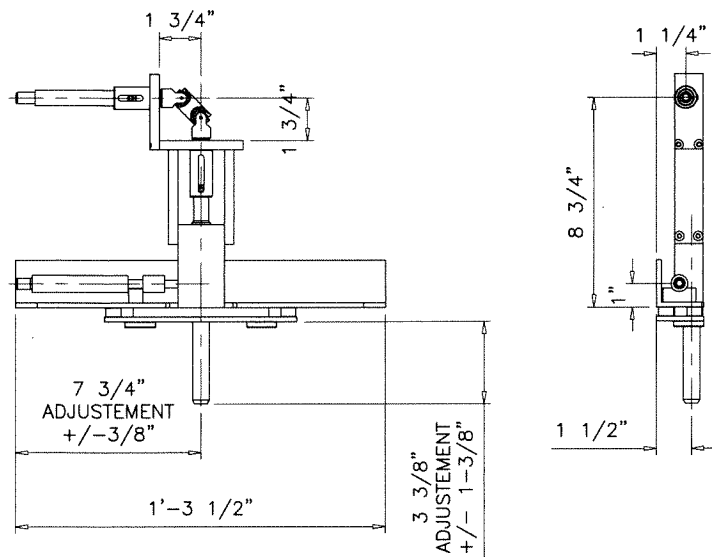
22-37F

sheet 13 of 15

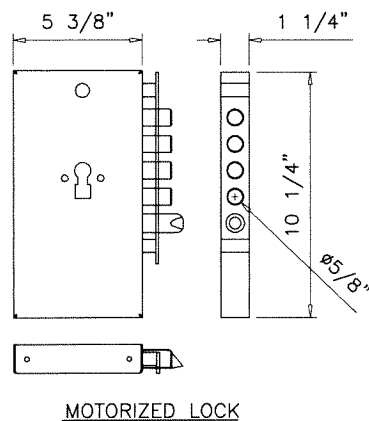
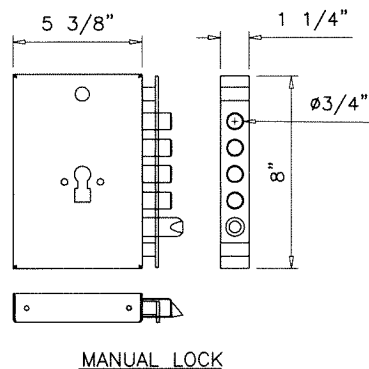
Sealed: 10/12/2026

FL #41748



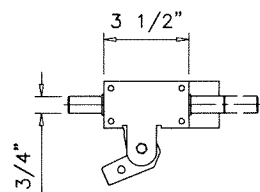


30 PIVOT HINGE
SCALE 1/8" = 1"

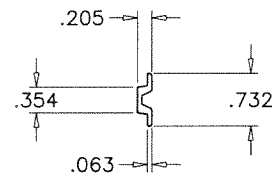


31 5 POINT CENTER LOCK
SCALE 1/8" = 1"

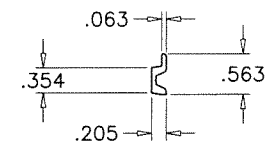
5 POINT CENTER LOCK (#31) CONNECTED TO TOP, BOTTOM & SIDE SINGLE POINT LOCKS (#32) WITH CONNECTING RODS (#33)



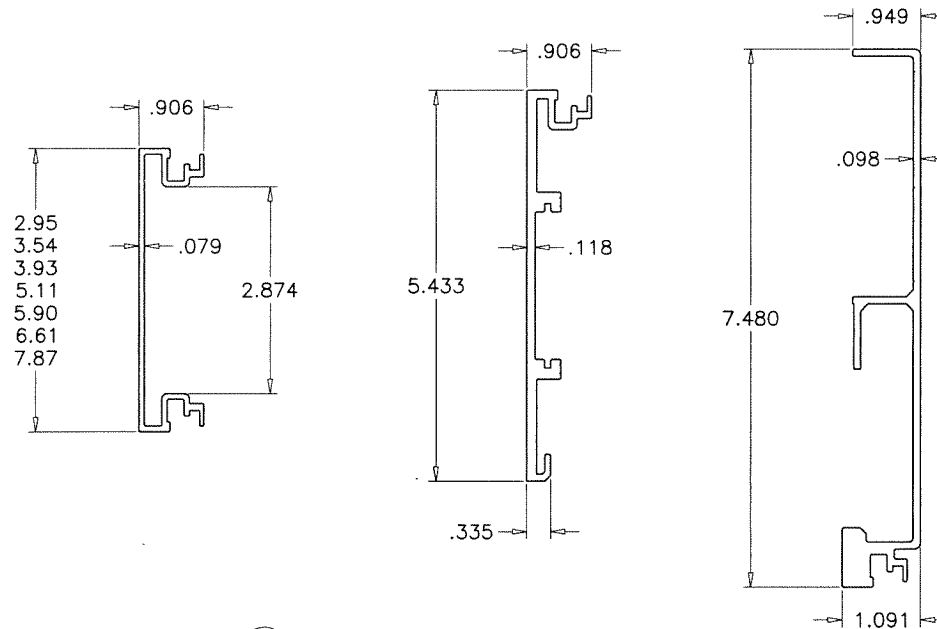
32 SINGLE POINT LOCK
SCALE 1/8" = 1"



34 INTERMEDIATE CLADDING CLIP



35 TOP/BOTTOM CLADDING CLIP



41 SKYDOOR SLAT PROFILES

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dr. by:	TARIQ	chk. by:	
drawing no.	22-37F	sheet	14 of 15

COMP-ANL 22-37F-OVS

ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	—	3	FRAME HEAD/SILL/JAMB	STEEL	—
2	—	1	HEAD FILLER TUBE	STEEL	—
2A	#14 X 5/8"	AS REQD.	FILLER TUBE FASTENERS, AT 3" FROM ENDS & 10" O.C.	ST. STEEL	PH SMS
3	—	1	HEAD COVER	6060-T5	—
3A	#8 X 7/8"	AS REQD.	COVER FASTENERS, AT 4" FROM ENDS & 12" O.C.	ST. STEEL	FH SELF DRILLING
4	—	1	HEAD COVER SNAP-IN	6060-T5	—
5	—	1	PANEL TOP RAIL	STEEL	—
6	—	1	TOP RAIL COVERS	6060-T5	—
7	—	1	PANEL BOTTOM RAIL	STEEL	—
8	—	1	BOTTOM RAIL COVERS	6060-T5	—
9	—	1	THRESHOLD	PVC	—
10	—	1	EXT. THRESHOLD COVER	6060-T5	—
11	—	1	INT. THRESHOLD COVER	6060-T5	—
12	—	AS REQD.	HAT REINFORCING, SPOT WELDED TO PANEL AT EACH END	STEEL	—
13	—	1	PIVOT JAMB STILE	STEEL	—
14	—	1	PIVOT STILE COVERS	6060-T5	—
14.1	#6 X 7/8"	AS REQD.	COVER FASTENERS, AT 2" FROM ENDS & 6" O.C.	ST. STEEL	FH SELF DRILLING
15	—	1	LOCK STILE COVERS	6060-T5	—
15.1	#6 X 7/8"	AS REQD.	COVER FASTENERS, AT 2" FROM ENDS & 10" O.C.	ST. STEEL	FH SELF DRILLING
16	—	1	PIVOT JAMB FILLER TUBE	STEEL	—
16A	#14 X 5/8"	AS REQD.	FILLER TUBE FASTENERS, AT 6" FROM ENDS & 16" O.C.	ST. STEEL	PH SMS
17	—	1	LOCK JAMB STILE	STEEL	—
18	—	AS REQD.	MULLION REINFORCING	STEEL	—
19	—	1	LOCK STILE COVERS	6060-T5	—
19A	#6 X 7/8"	AS REQD.	COVER FASTENERS, AT 2" FROM ENDS & 10" O.C.	ST. STEEL	FH SELF DRILLING
20	—	AS REQD.	JAMB COVER SNAP-IN	6060-T5	—
21	—	—	W'STRIP ADAPTER	6060-T5	—
21A	—	—	W'STRIP ADAPTER	6060-T5	—
21B	—	—	W'STRIP ADAPTER	6060-T5	—
21.1	—	AS REQD.	W'STRIP ADAPTER FASTENERS	ST. STEEL	—
22	—	—	W'STRIP ADAPTER INSERT	6060-T5	—
22A	—	—	W'STRIP ADAPTER INSERT	6060-T5	—
22B	—	—	W'STRIP ADAPTER INSERT	6060-T5	—
23	—	AS REQD.	EXTERIOR W'STRIPPING	VINYL	—
24	—	AS REQD.	INTERIOR W'STRIPPING	VINYL	—
24A	—	AS REQD.	INTERIOR W'STRIPPING	VINYL	—
24B	—	AS REQD.	INTERIOR W'STRIPPING	VINYL	—
25	—	AS REQD.	FRAME JAMB W'STRIPPING	VINYL	—
26	—	OPTIONAL	INTERIOR/EXTERIOR TRIM	—	—
26A	#6 X 7/8"	AS REQD.	TRIM FASTENERS, AT 5" FROM ENDS & 16" O.C.	ST. STEEL	FH SELF DRILLING
27	—	—	DOOR PANEL, WELDED TO RAILS AND STILES	STEEL	16 GA. (.058") MIN. Fy = 41,000
28	—	—	PANEL COVER (SEE SHEETS 4 THRU 6 FOR OPTIONS)	—	—
28A	#4 X 1"	AS REQD.	COVER FASTENERS, AT 2" FROM ENDS & 9" O.C.	ST. STEEL	FH SMS
29	—	AS REQD.	PANEL CORE (INSULATION)	STONE WOOL	—
30	—	2	PIVOT HINGE	—	—
31	—	—	5 POINT CENTER LOCK (USE WITH ITEM #32 & #33)	—	OIKOS
32	—	—	SINGLE POINT LOCK (USE WITH ITEM #31 & #33)	—	OIKOS
33	—	—	CONNECTING RODS (USE WITH ITEM #31 & #32)	—	OIKOS
34	—	AS REQD.	INTERMEDIATE CLADDING CLIP	6060-T5	—
35	—	AS REQD.	TOP/BOTTOM CLADDING CLIP	6060-T5	—
36	#4 X 7/16"	AS REQD.	CLADDING CLIP FASTENERS, AT 6" FROM ENDS & 10" O.C.	ST. STEEL	FH SMS
37	—	AS REQD.	SIDELITE INTERNAL FRAME	STEEL	—
38	—	AS REQD.	SIDELITE FILLER PLATE	STEEL	—
39	—	1	PIVOT JAMB COVERS	6060-T5	—
40	—	1	LOCK JAMB COVERS	6060-T5	—
41	—	AS REQD.	SKYDOOR SLAT PROFILES	6060-T5	—
42	—	AS REQD.	SIDELITE GLAZING GASKET	VINYL	DUROMETER 70±5 SHORE A
43	—	2/ LITE	SETTING BLOCKS AT 1/4 POINTS	EPDM	DUROMETER 80±5 SHORE A

DOOR HARDWARE

LOCKS:
ELECTRICAL FUNCTION IS NOT PART OF THIS APPROVAL.

FLUSH MOUNT 8 POINT LOCK SYSTEM AT 38" FROM BOTTOM
KEY OPERATED ON EXTERIOR FASTENED WITH (1) #6 X 5/8" MS
THUMB TURN ON INTERIOR FASTENED WITH (3) #6 X 7/8" FH SMS
5 POINT CENTER LOCK WITH CONNECTING RODS ACTIVATES
SINGLE LOCKS AT TOP, BOTTOM & OPPOSITE SIDE
CENTER LOCK FASTENED TO LOCK BRACKET
WITH (4) #6 X 5/8" MACHINE SCREWS
SINGLE LOCKS WELDED TO 3/8" X 2-1/8" X 3/8" BY 5-3/16" LONG
CHANNEL BRACKET
BRACKETS WELDED TO PANEL

1-1/4" X 7" LONG CONCEALED NYLON KEEPERS FACING CENTER LOCK
1-1/4" X 1-1/2" LONG CONCEALED NYLON KEEPERS FACING SINGLE LOCKS

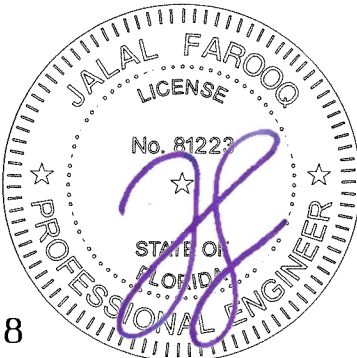
HINGES:

PIVOT HINGES AT FRAME HEAD AND SILL
WELDED TO PANEL

SEALANT:

ALL JOINTS AND FRAME CONNECTIONS SEALED WITH
'SCHNEE-MOREHEAD 5504' SEAM SEALER.

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