



Product Approval
USER: Public User

[Product Approval Menu](#) > [Product or Application Search](#) > [Application List](#) > **Application Detail**

OFFICE OF THE SECRETARY

FL #	FL41748-R1
Application Type	Revision
Code Version	2023
Application Status	Approved

Comments
Archived



Product Manufacturer
Address/Phone/Email

OIKOS VENEZIA Srl
via della Tecnica 6
Gruaro, NON-US 30020
(390) 421-7671
info@oikos-usa.com

Authorized Signature

Mario Biancolin
info@oikos-usa.com

Technical Representative
Address/Phone/Email

Quality Assurance Representative
Address/Phone/Email

Category
Subcategory

Exterior Doors
Swinging Exterior Door Assemblies

Compliance Method

Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer
☐ Evaluation Report - Hardcopy Received

Florida Engineer or Architect Name who developed the Evaluation Report
Florida License
Quality Assurance Entity
Quality Assurance Contract Expiration Date
Validated By

Jalal Farooq
PE-81223
National Accreditation and Management Institute
12/31/2026
Abel Carrasco, PE
☒ Validation Checklist - Hardcopy Received

Certificate of Independence

[FL41748_R1_COI_SS - Certificate of Independence 2022.pdf](#)

Referenced Standard and Year (of Standard)

Standard	Year
TAS 201	1994
TAS 202	1994
TAS 203	1994

Equivalence of Product Standards
Certified By

Sections from the Code

Product Approval Method

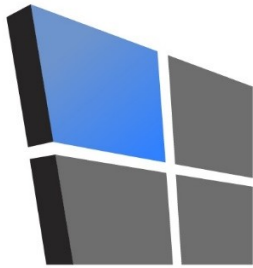
Method 1 Option D

Date Submitted
Date Validated
Date Pending FBC Approval
Date Approved

10/04/2023
10/06/2023
10/10/2023
12/13/2023

Summary of Products

FL #	Model, Number or Name	Description
41748.1	Series Synua-12 Inswing Pivot Door	Large missile impact resistant steel inswing pivot door with or without sidelites.
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +65/-65 Other: See drawing 22-37F for span vs load combinations and installation details.		Installation Instructions FL41748_R1_IL_SS- Synua-12 IS Pivot (LMI) - DWG 22-37F (2023).pdf Verified By: Jalal Farooq PE # 81223 Created by Independent Third Party: Yes Evaluation Reports FL41748_R1_AE_SS- Synua-12 IS Pivot (LMI)-PAE 2023.pdf Created by Independent Third Party: Yes
41748.2	Series Synua-12 Outswing Pivot Door	Large missile impact resistant steel outswing pivot door with or without sidelites.
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +65/-65 Other: See drawing 22-39F for span vs load combinations and installation details.		Installation Instructions FL41748_R1_IL_SS- Synua-12 OS Pivot (LMI) - DWG 22-39F (2023).pdf Verified By: Jalal Farooq PE # 81223 Created by Independent Third Party: Yes Evaluation Reports FL41748_R1_AE_SS- Synua-12 OS Pivot (LMI)-PAE 2023.pdf Created by Independent Third Party: Yes



AL-FAROOQ CORPORATION

CONSULTING ENGINEERS & PRODUCT DEVELOPMENT

PRODUCT APPROVAL EVALUATION RULE CHAPTER #61G20-3 • METHOD 1 OPTION D

FL 41748

Date: 09/28/2023

Detailed Product Description:

Manufacturer: OIKOS VENEZIA SRL

Manufacturer Address: Via Della Tecnica 6, 30020 Gruaro, Venezia, Italy

Model Name: Series Synua-12 Inswing Pivot Door

Maximum Load: +65 PSF, -65PSF (Large Missile Impact)

Installation Drawings # 22-37F

This product complies with the High Velocity Hurricane Zone (HVHZ) testing requirements.

For maximum sizes, combination of span vs loads and anchor type refer to installation drawings.

Comparative analysis used ☐ Yes ☒ No

Mandatory Tests (Tested in accordance with AAMA 101/I.S.2/NAFS/TAS-202)

TEST	DESCRIPTION	TEST LOCATION	TEST REPORT DATE	TEST REPORT #	Test Sealed by
ASTM E283	Air Infiltration Leakage	Blackwater Testing Lab	03/10/2022	BW-OIK-22-001	Roberto Archila, PE
ASTM E330 & TAS 202	Uniform Static Air Press.	Blackwater Testing Lab	03/10/2022	BW-OIK-22-001	Roberto Archila, PE
AAMA 1304	Forced Entry Test	Blackwater Testing Lab	03/10/2022	BW-OIK-22-001	Roberto Archila, PE

Supplemental Tests (Tested in accordance with TAS-201 and TAS-203)

TEST	DESCRIPTION	TEST LOCATION	TEST REPORT DATE	TEST REPORT #	TEST SEALED BY
FBC 1626.2 TAS 201 & 203	Large Missile Impact & Cyclic	Blackwater Testing Lab	03/10/2022	BW-OIK-22-001	Roberto Archila, PE

Under the limitations of the attached installation drawings, to the best of my knowledge and ability, the above product conforms to the requirements of the 2023 Florida Building Code.

Evaluation Report Engineer:

Jalal Farooq
Al-Farooq Corporation

PE # 81223
EB # 3538



Sealed: 9/29/2023

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

SERIES 'SYNUA-12'
IN SWING 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) 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 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.

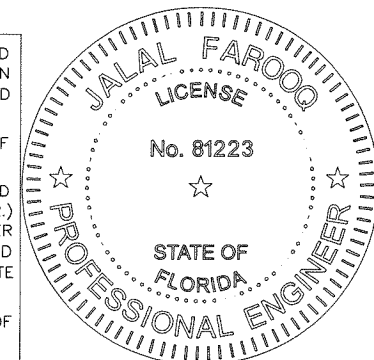
DESIGN LOADS SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'.

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.



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

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VIA DELLA TECNICA NO. 6
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date: 09-23-22

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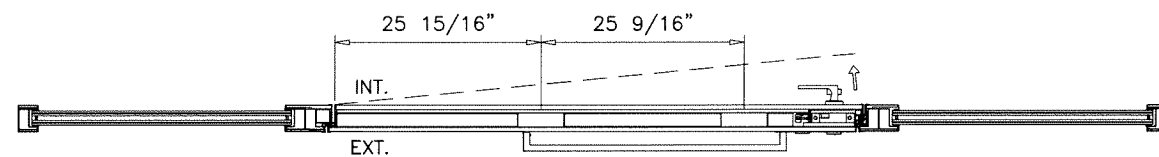
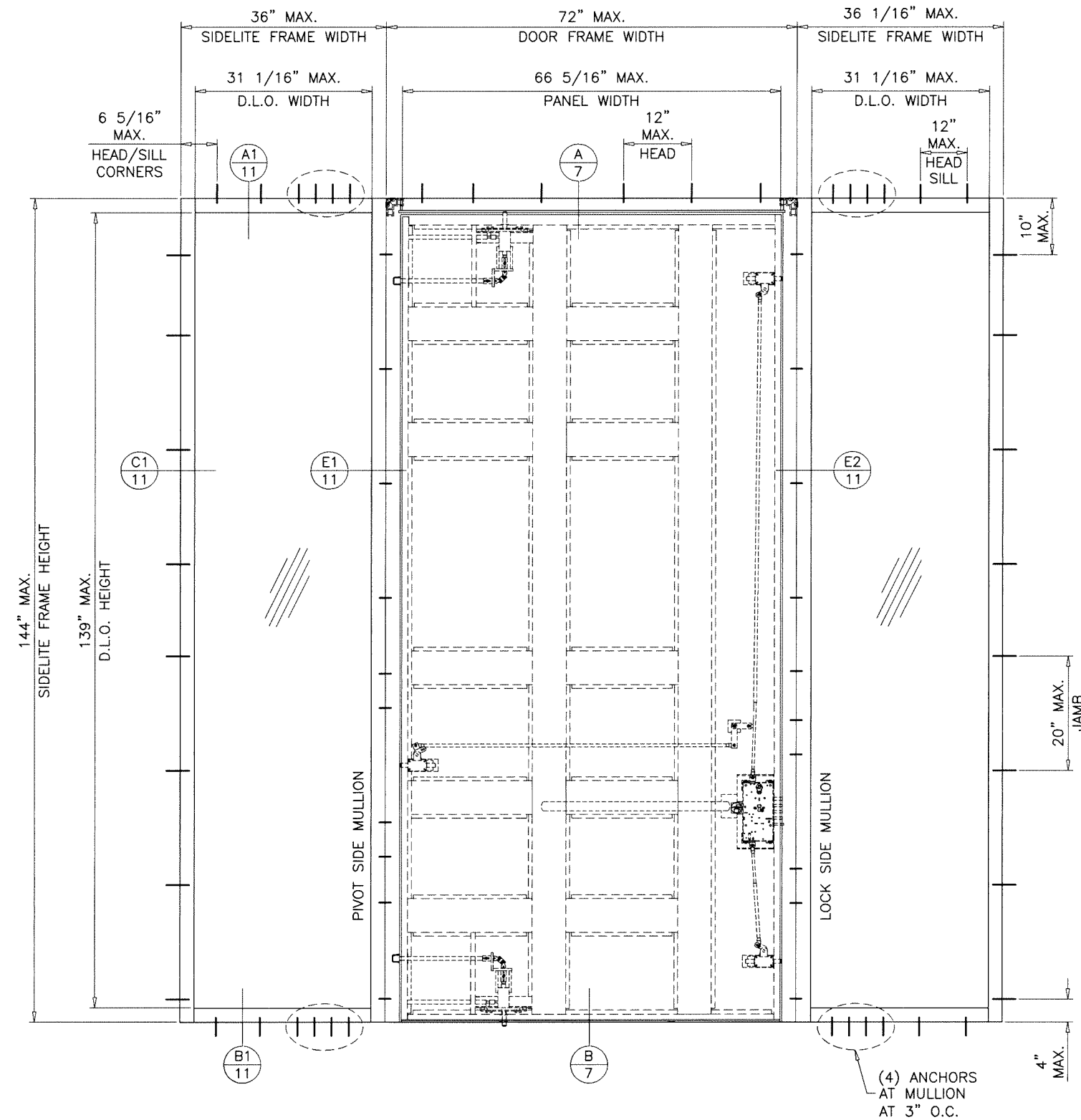
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chk. by:

drawing no.

22-37F

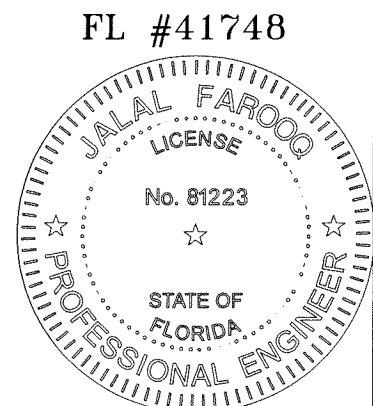
sheet 1 of 15



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.

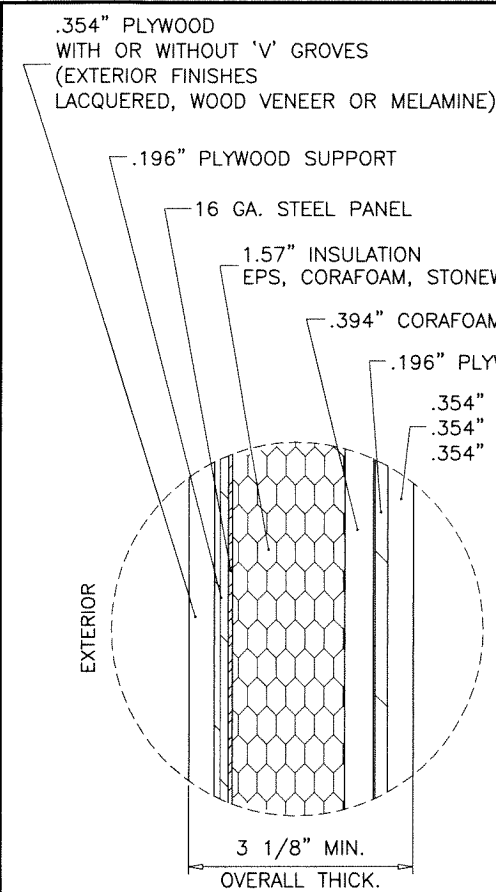


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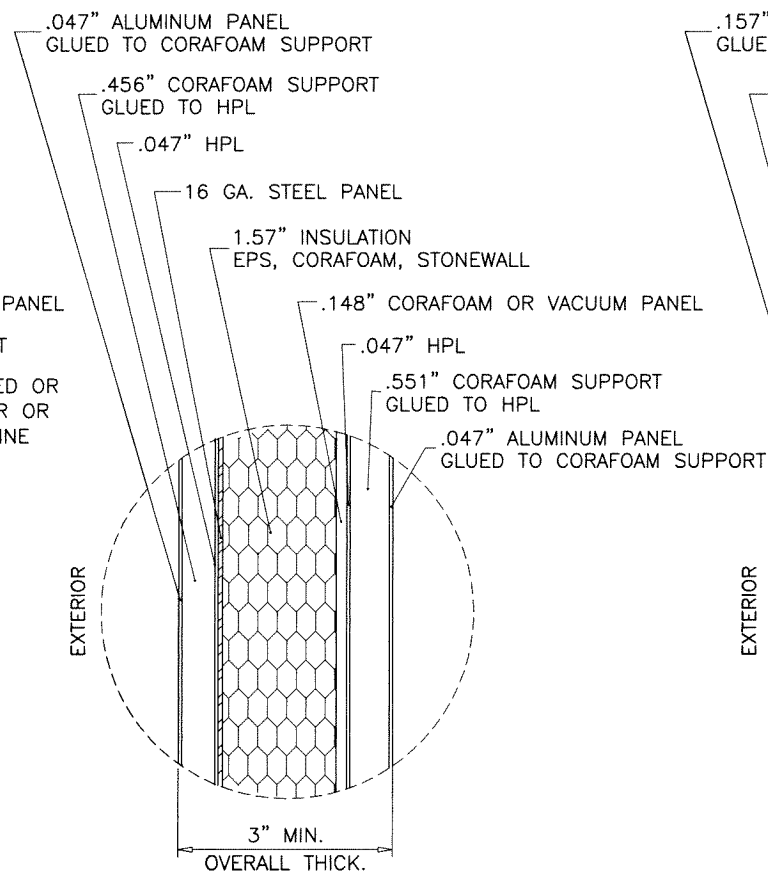
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sheet 3 of 15



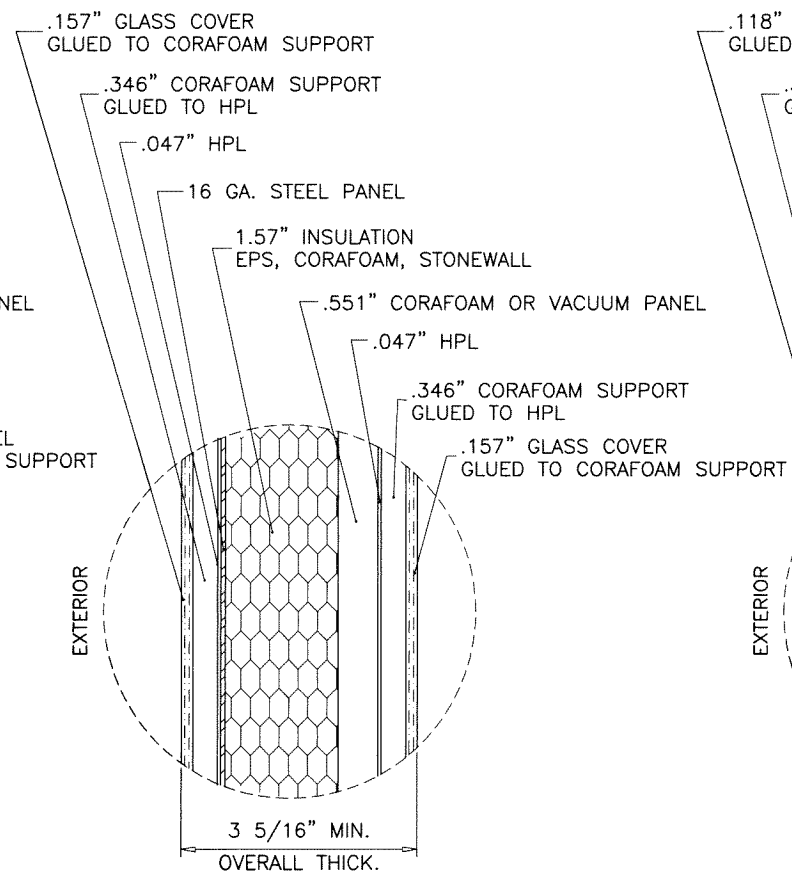
OPTION #1

MDF/OKUME PANEL WITH OR WITHOUT GROVES



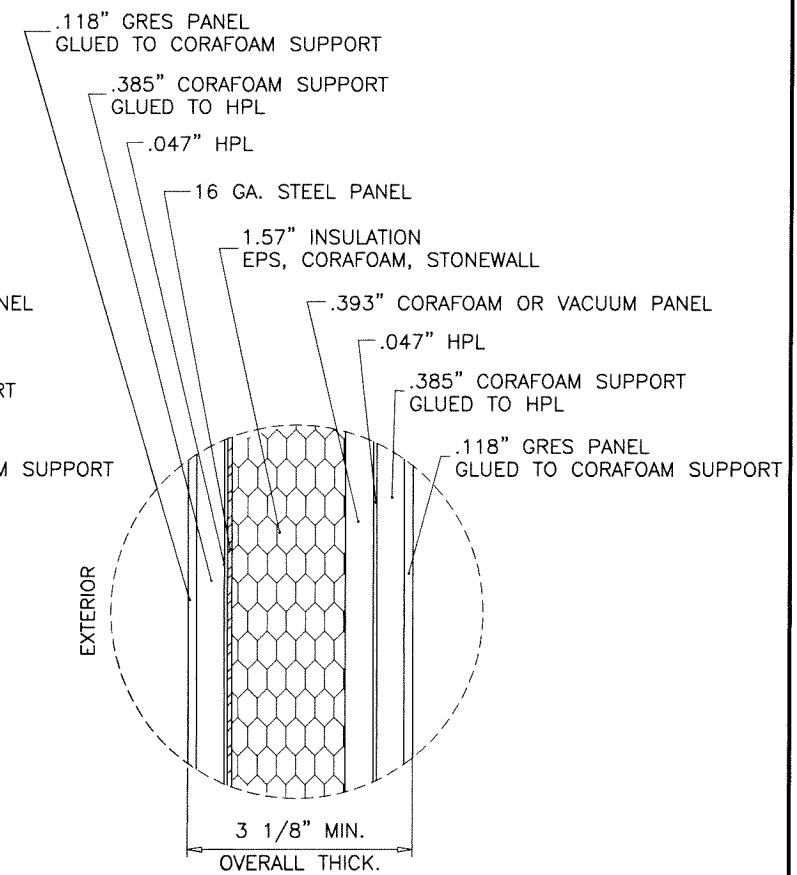
OPTION #2

ALLOY PANEL



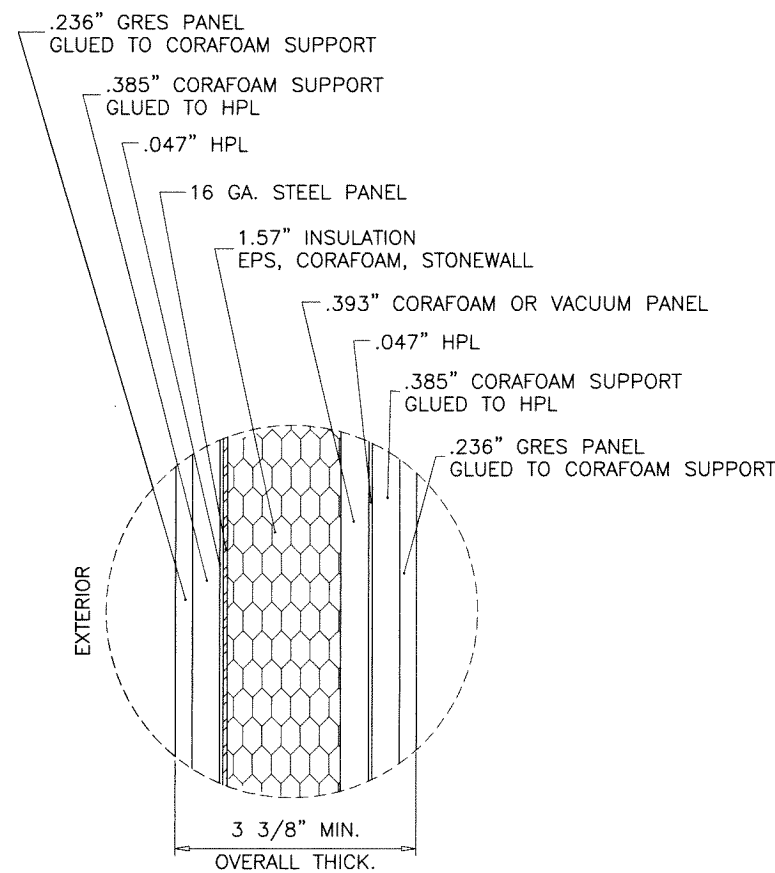
OPTION #3

GLASS PANEL



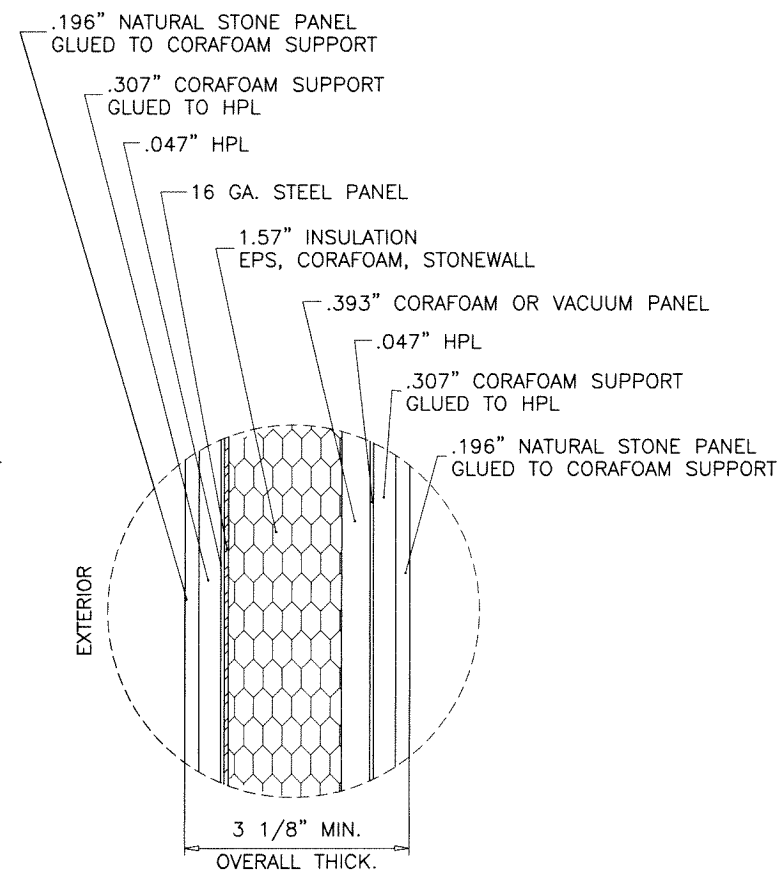
OPTION #4

3mm THK. GRES PANEL



OPTION #4A

6mm THK. GRES PANEL

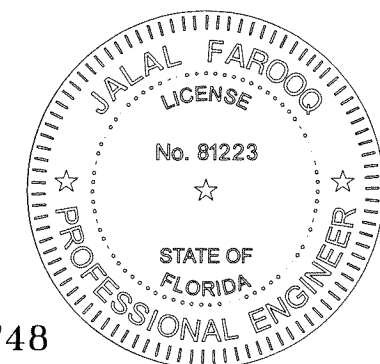


OPTION #5

NATURAL STONE

GLUED CLADDING OPTIONS

INTERIOR AND EXTERIOR CLADDING WITH SINGLE PANELS



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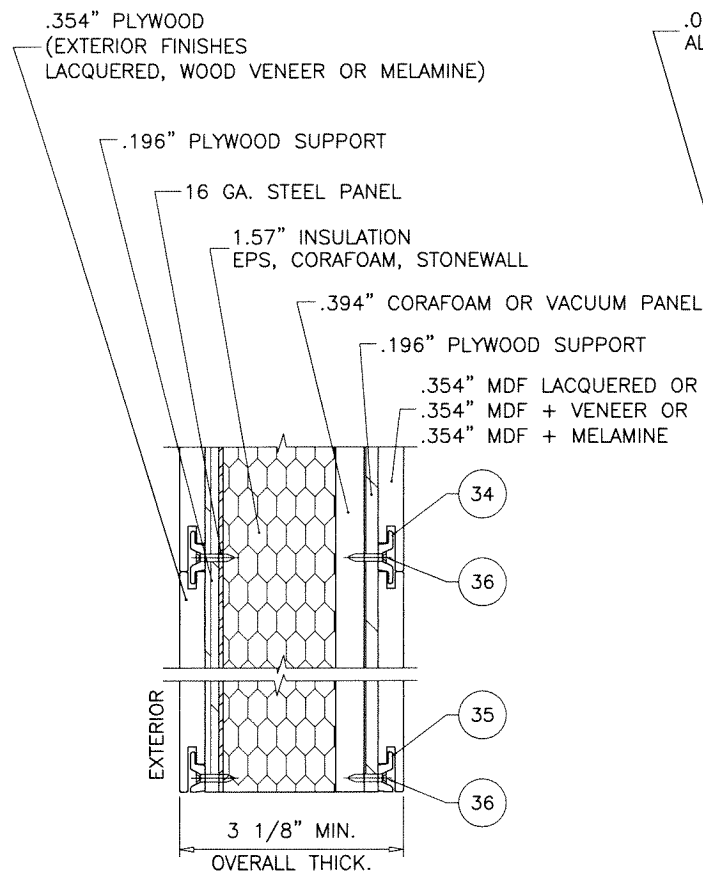
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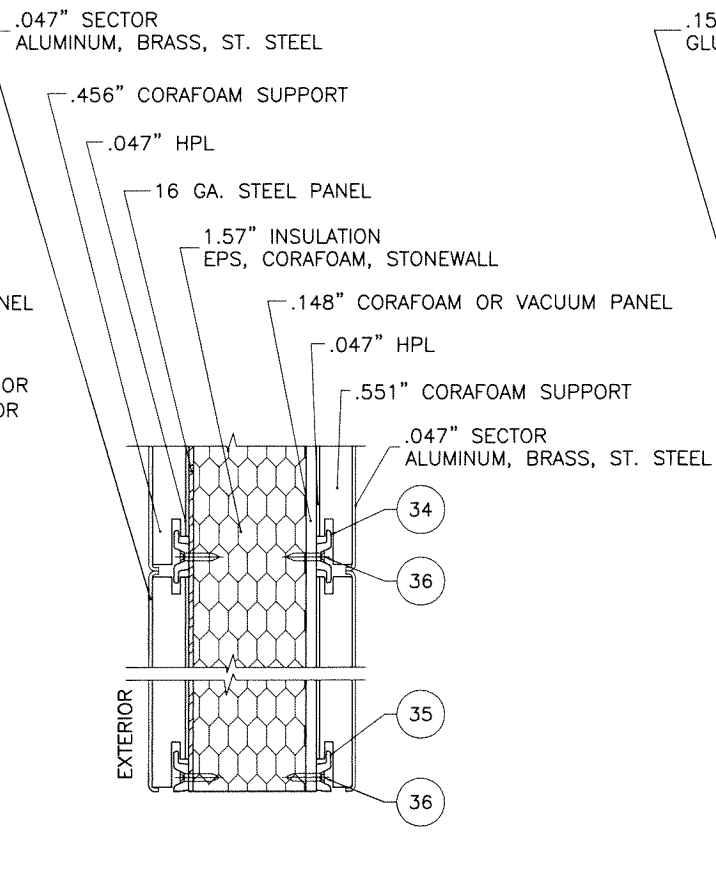
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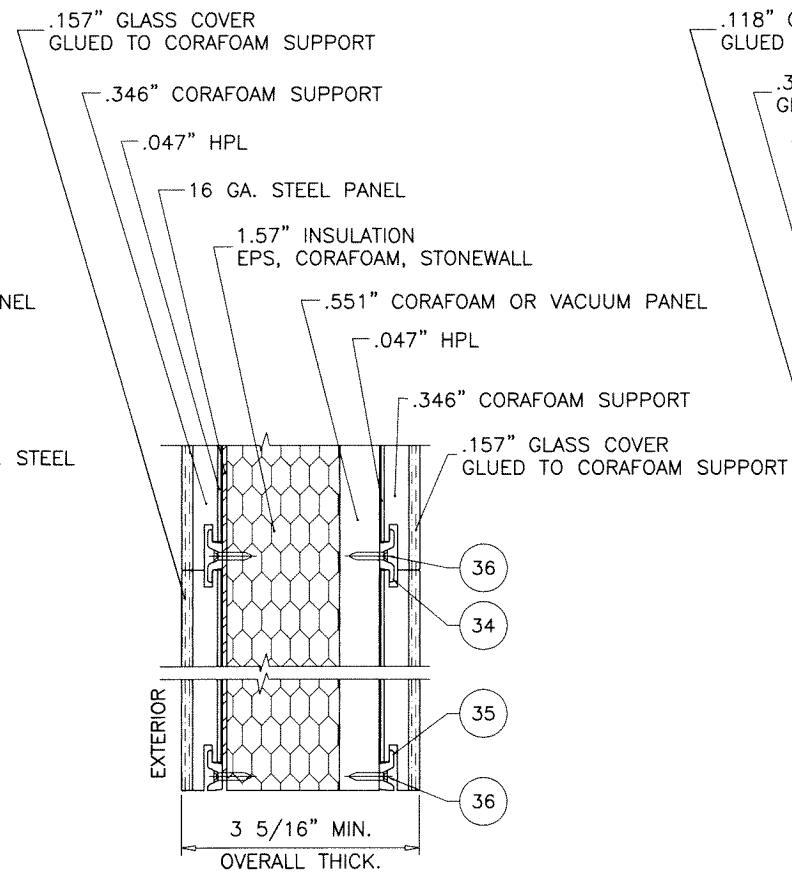
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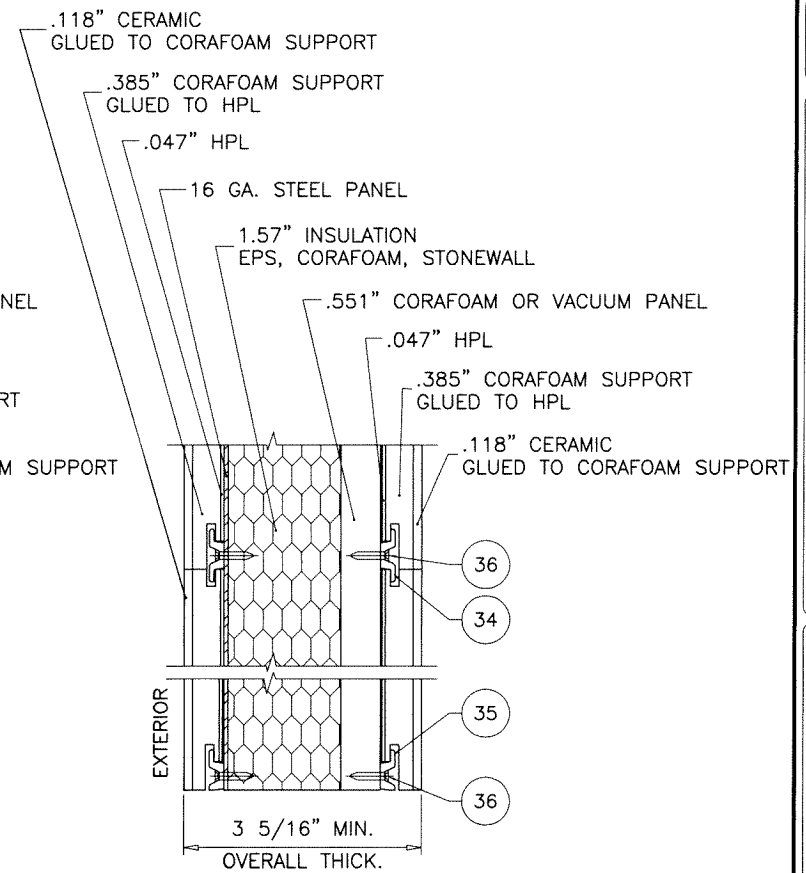
OPTION #1
MDF/PLYWOOD SECTOR



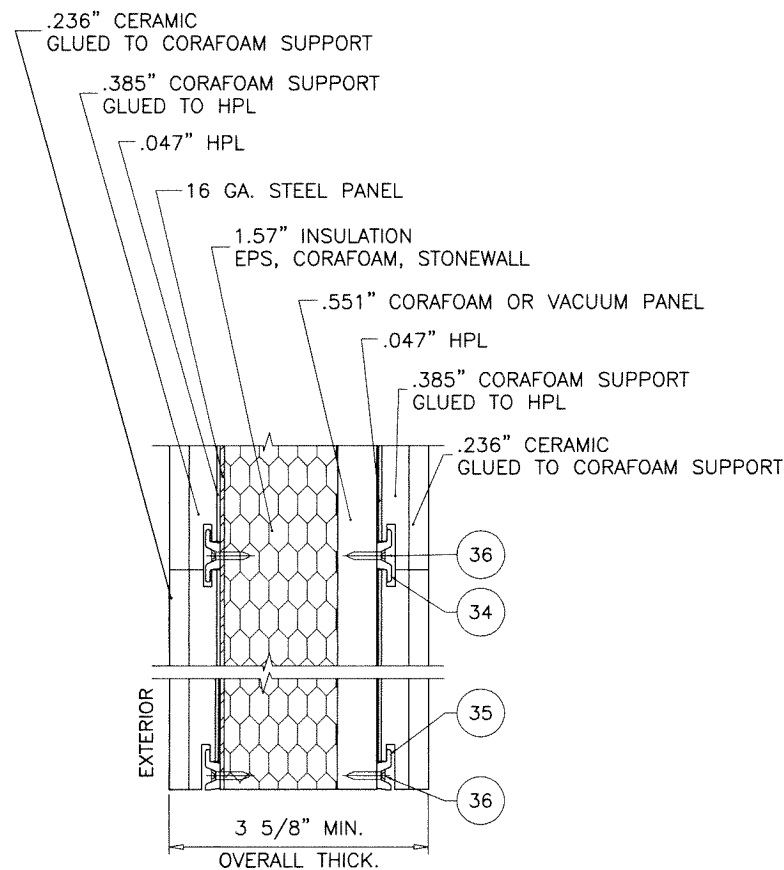
OPTION #2
ALLOY SECTOR



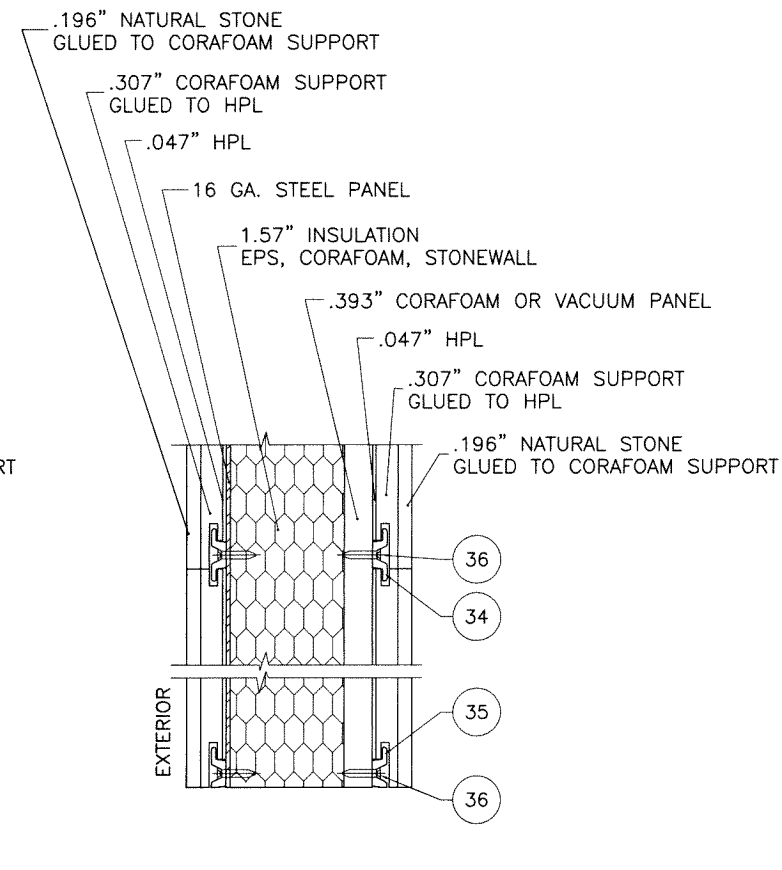
OPTION #3
GLASS SECTOR



OPTION #4
3mm THK. CERAMIC SECTOR



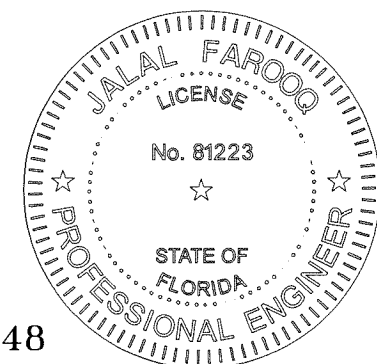
OPTION #4A
6mm THK. CERAMIC SECTOR



OPTION #5
NATURAL STONE SECTOR

MECHANICAL FASTENED CLADDING OPTIONS

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



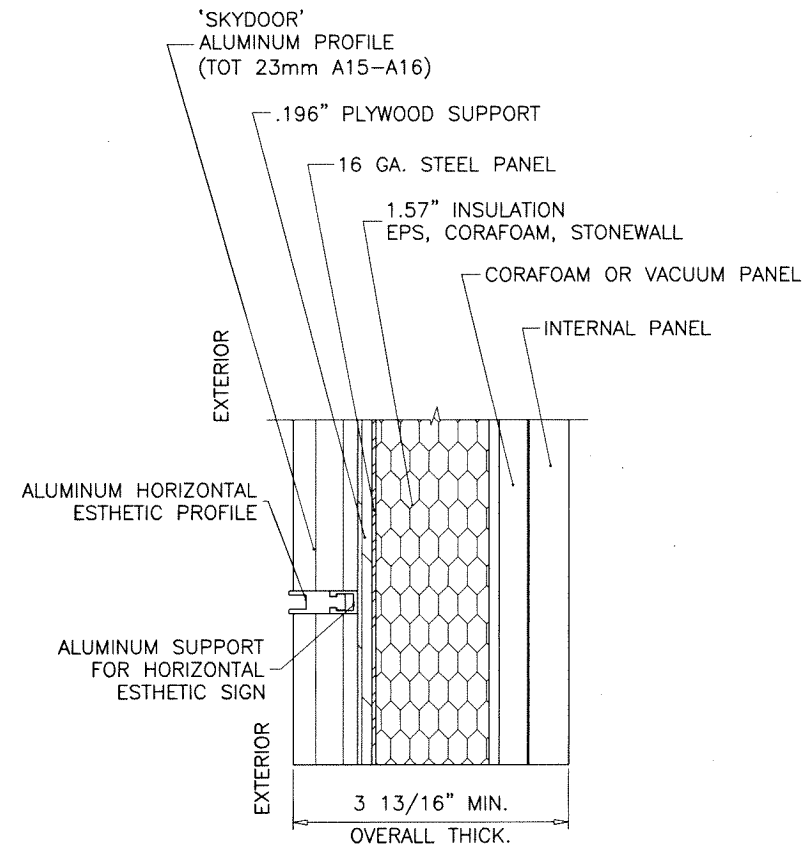
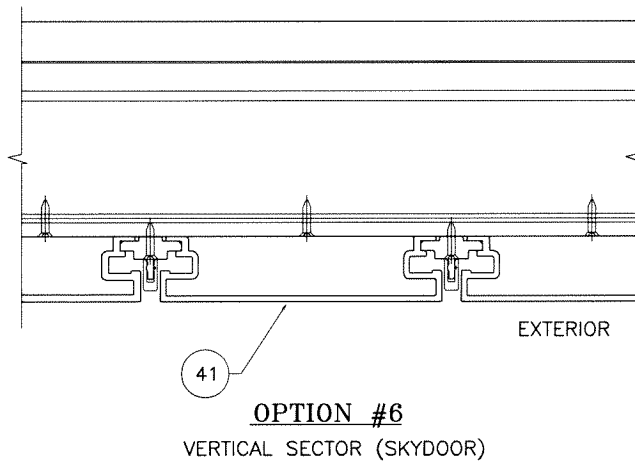
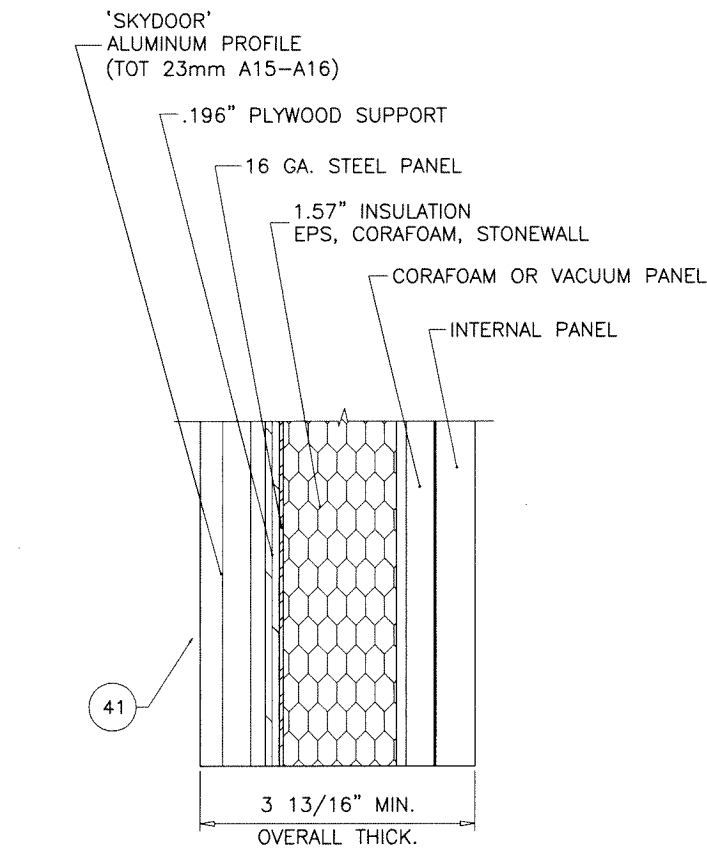
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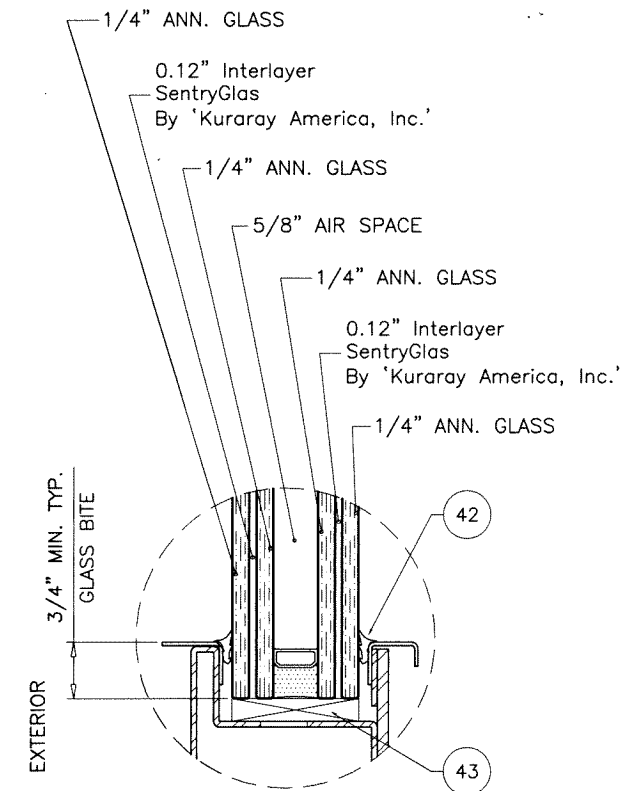
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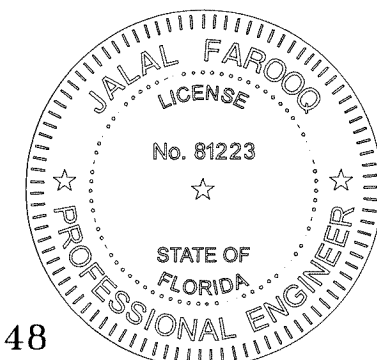
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OPTION #7
HORIZONTAL PROFILE (SKYDOOR)



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



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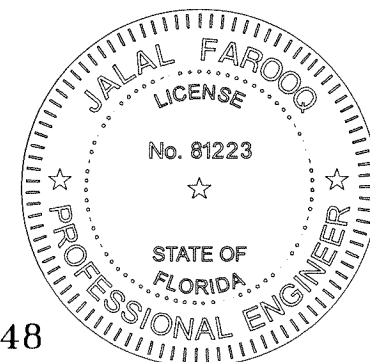
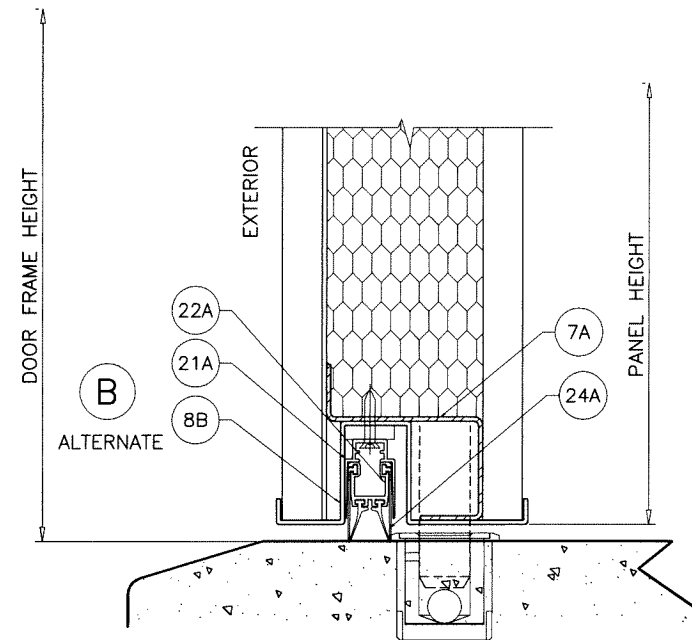
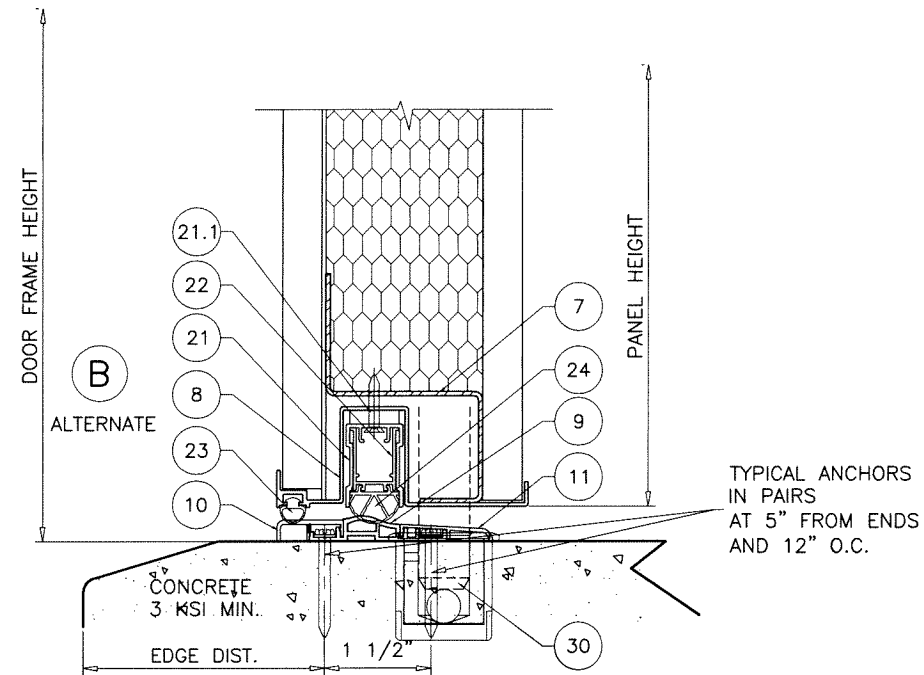
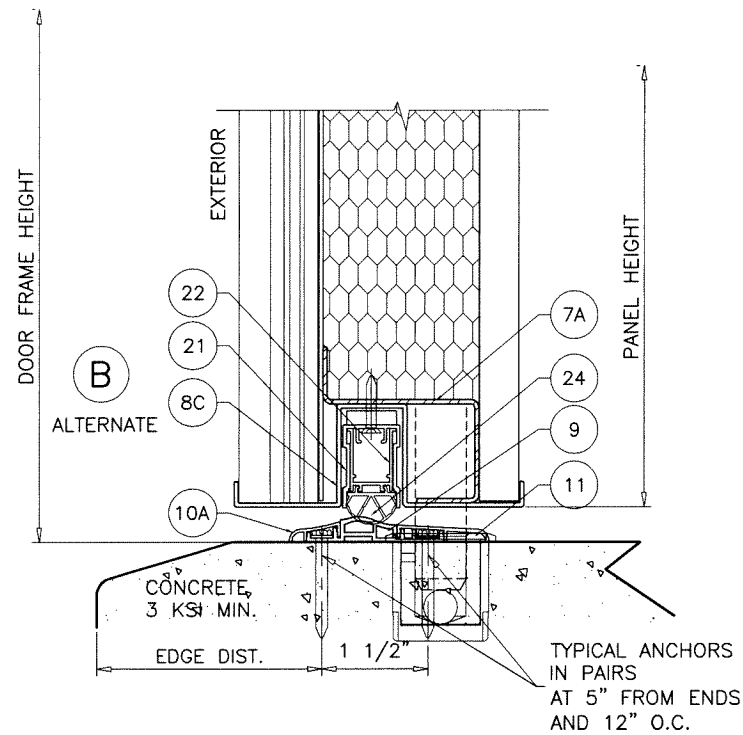
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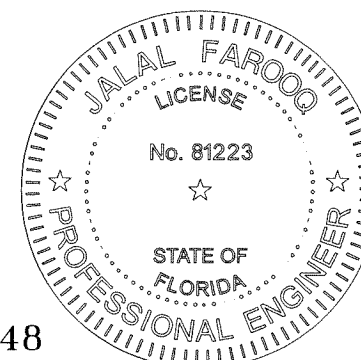
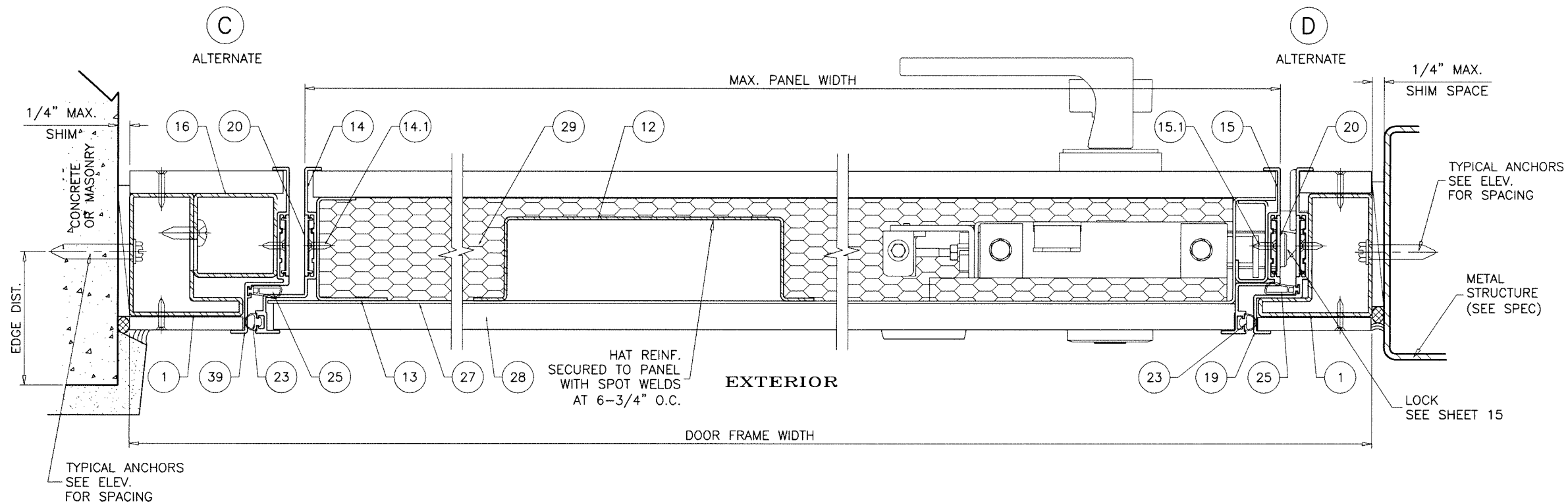
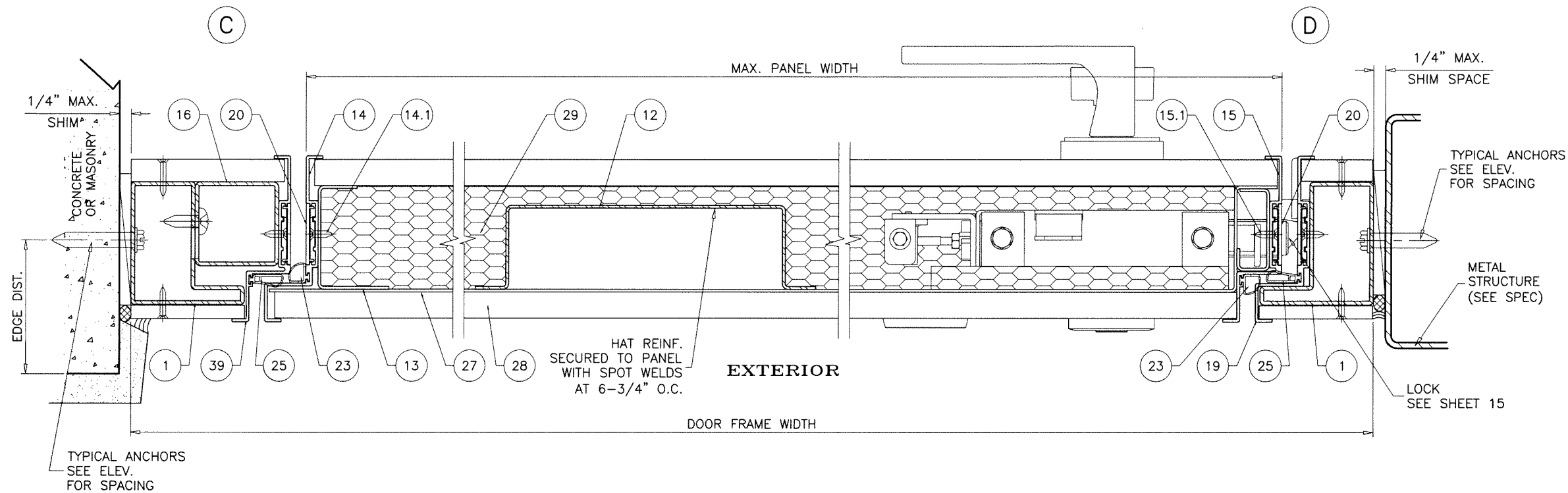
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COMP-ANL 22-37F-OVS

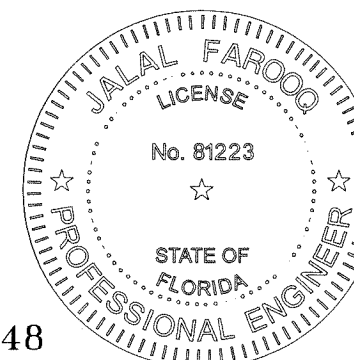
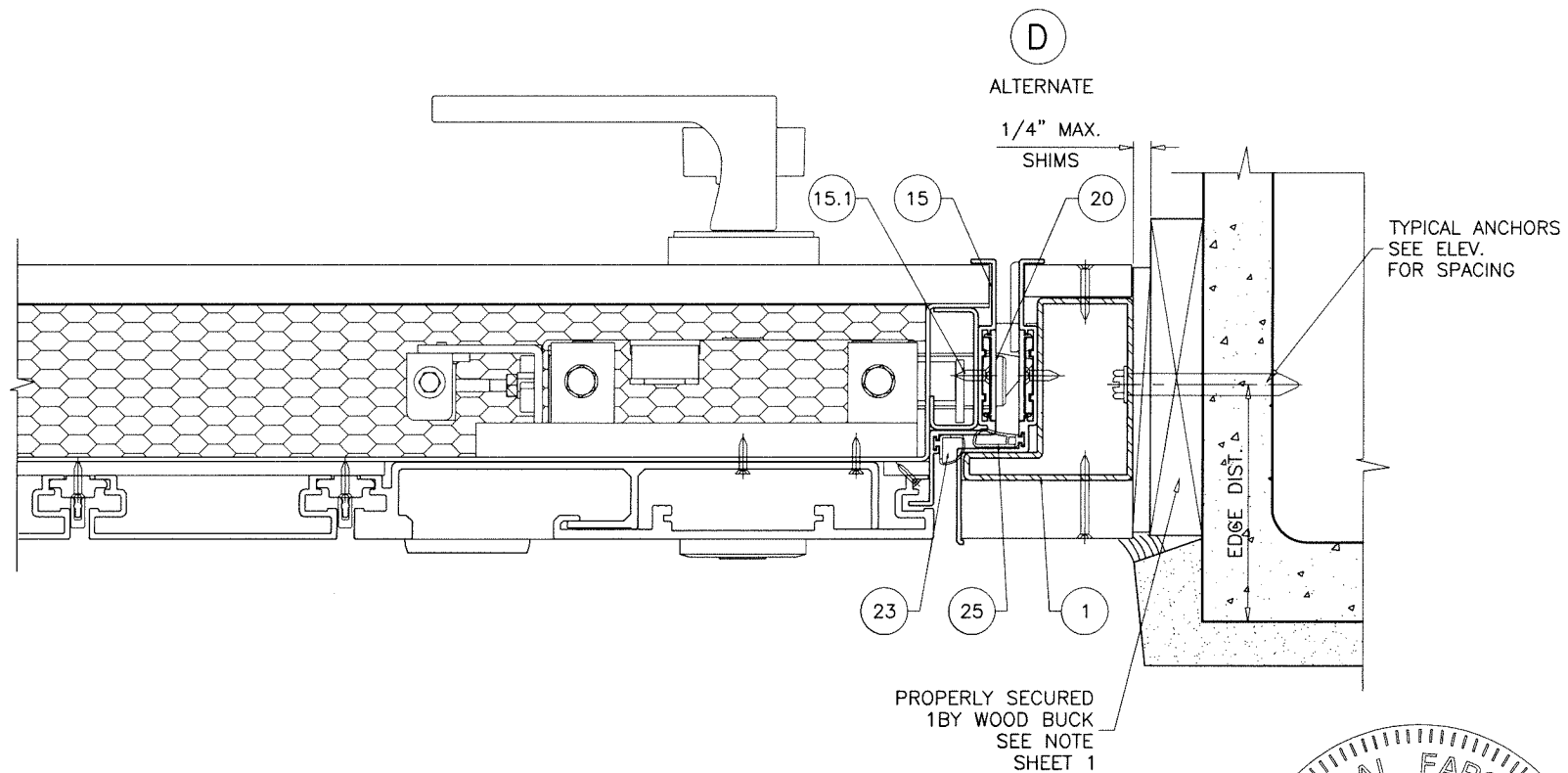
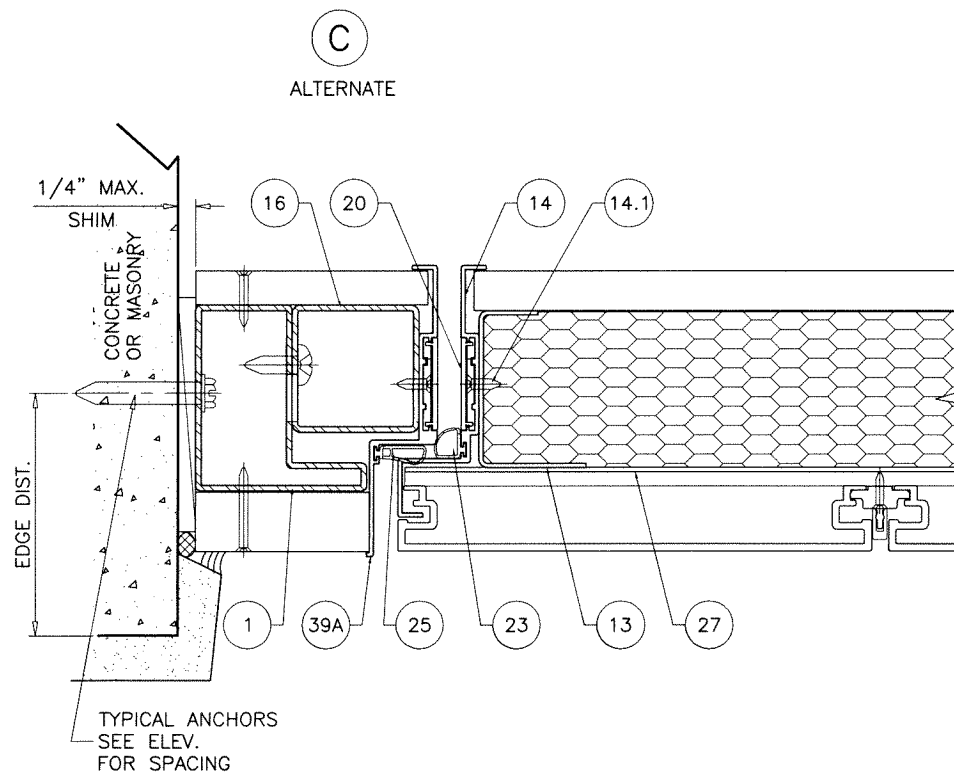
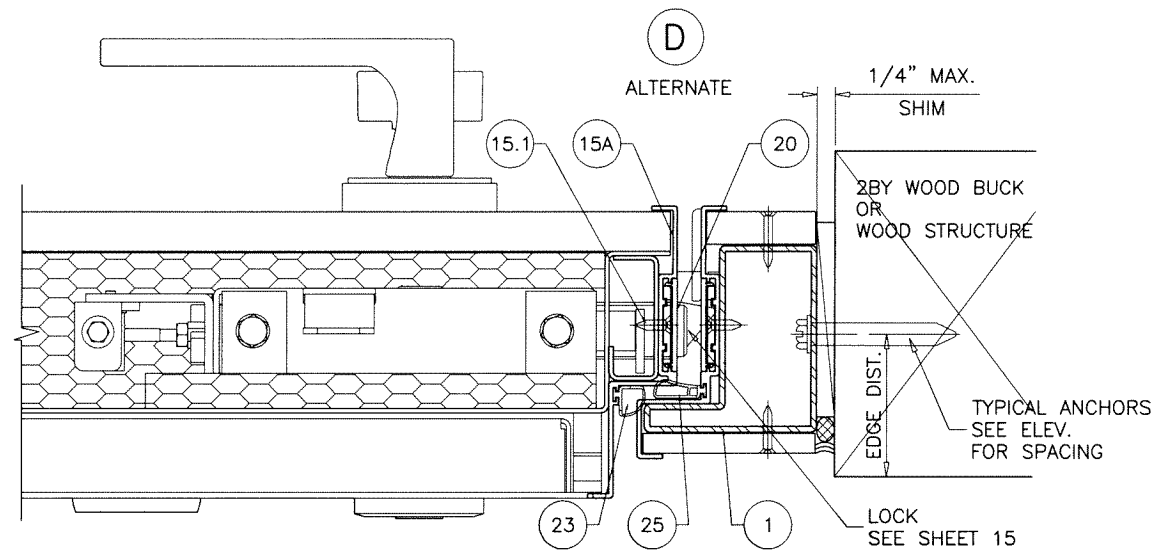
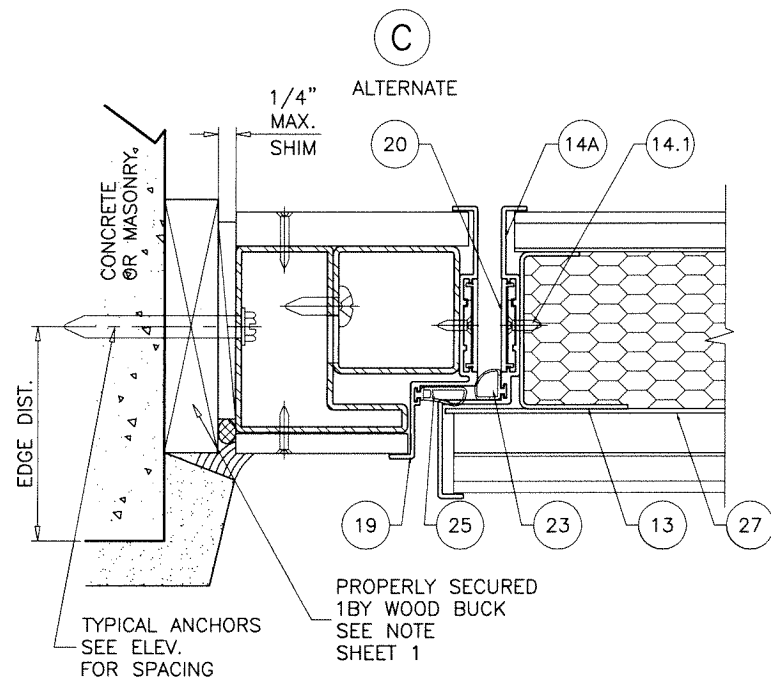
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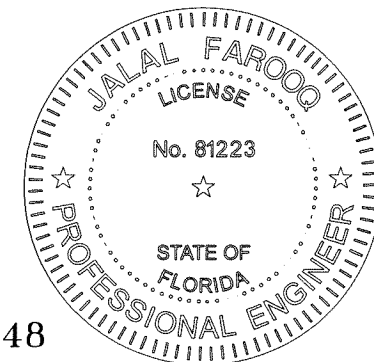
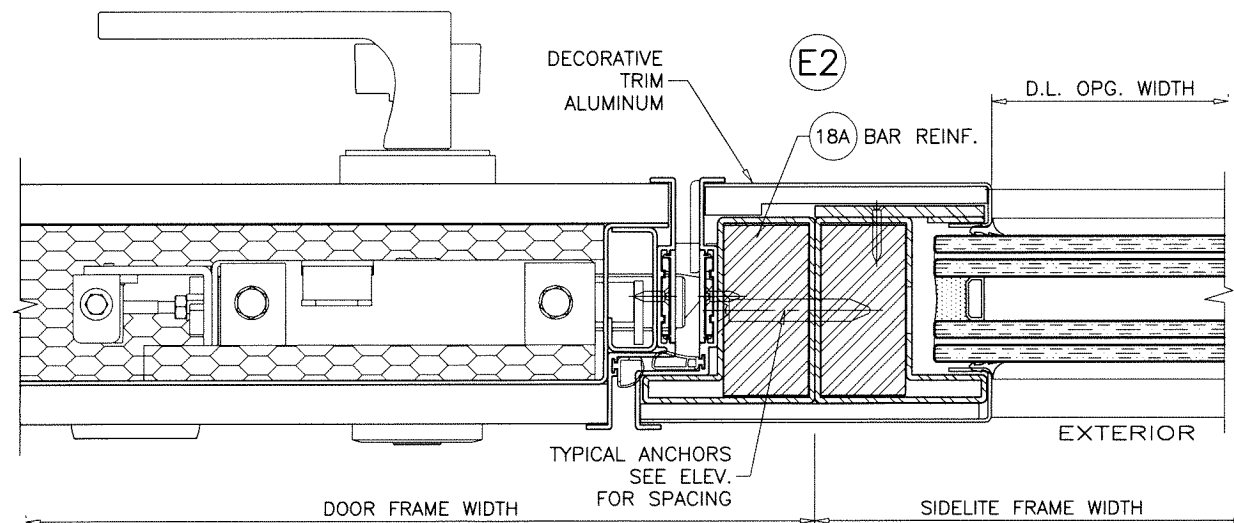
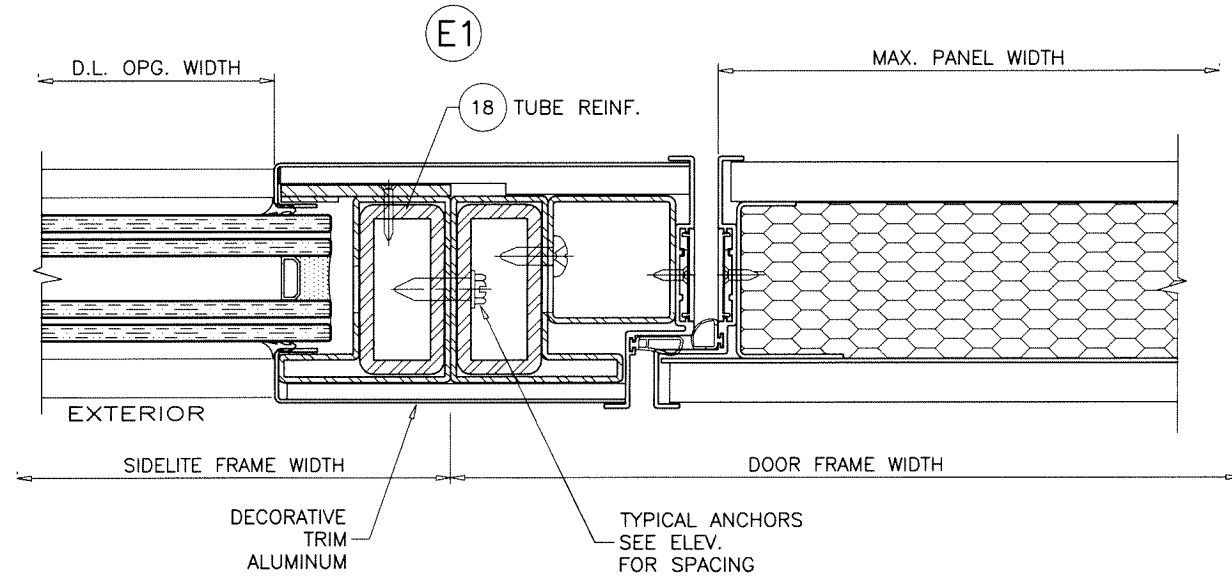
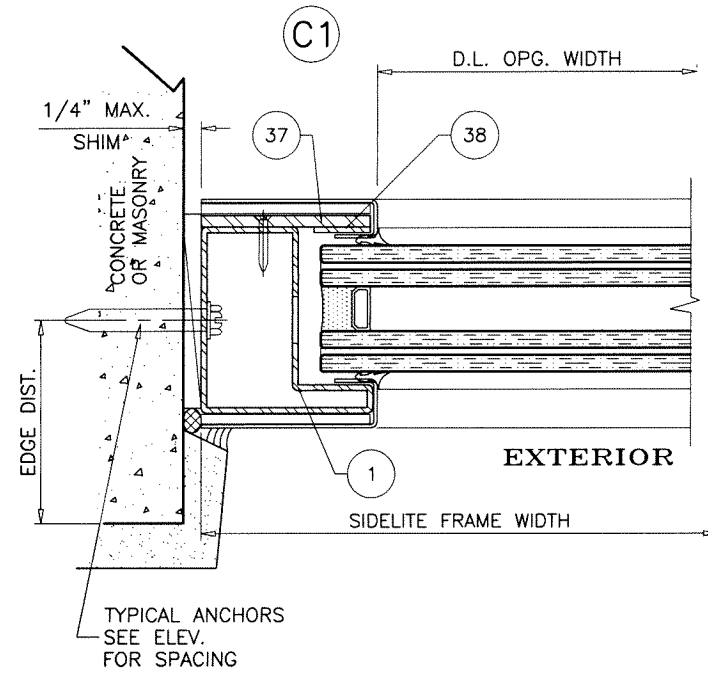
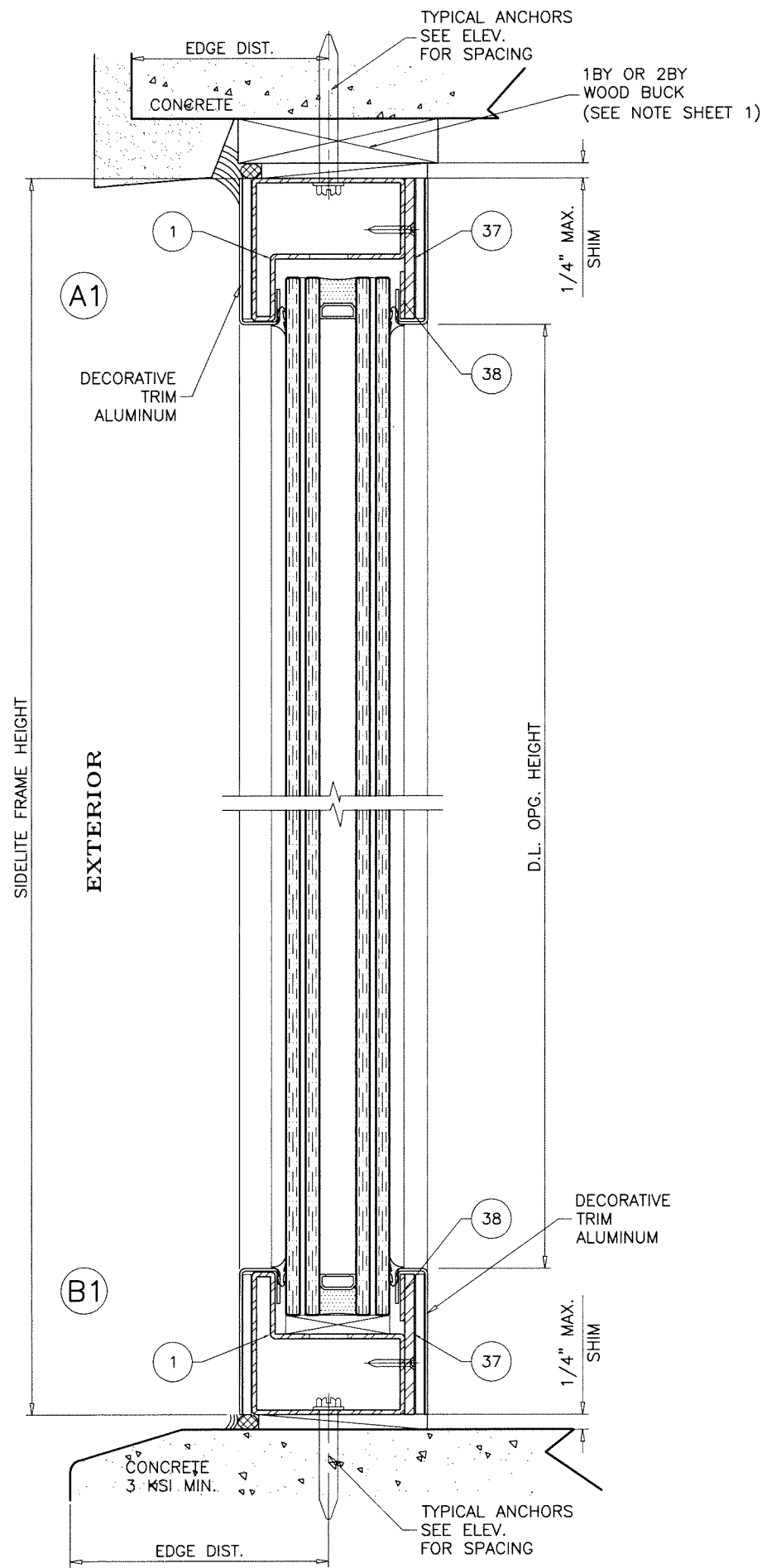
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VIA DELLA TECNICA NO. 6
30020 GRUARO - ITALY
TEL. 0039 0421 7671 FAX 0039 0421 767 222

date: 09-23-22
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

revisions:

no	date	by	description

drawing no.
22-37F
sheet 10 of 15



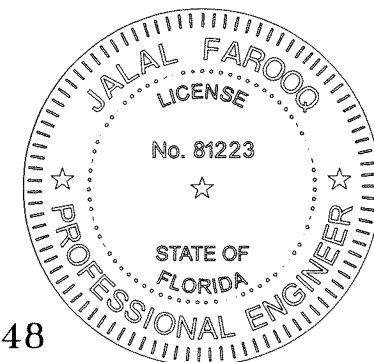
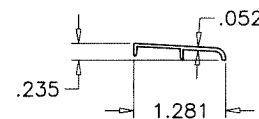
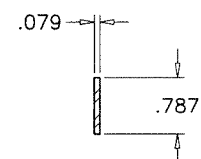
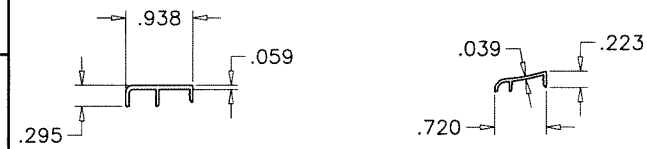
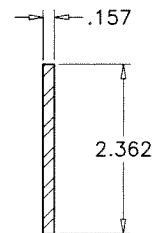
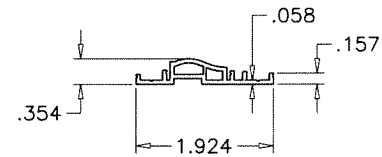
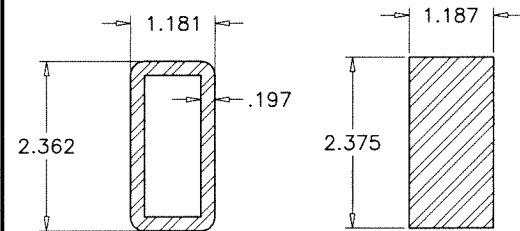
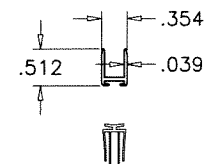
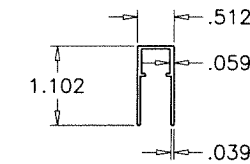
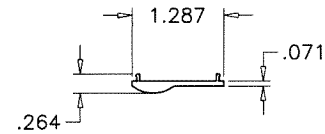
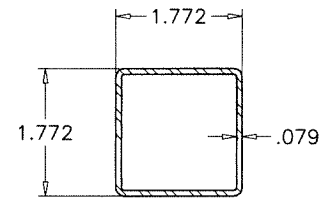
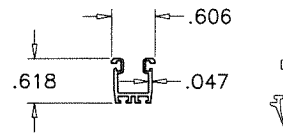
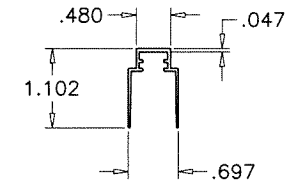
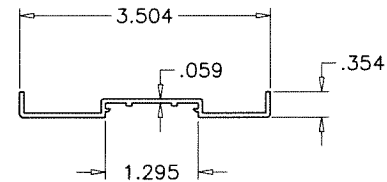
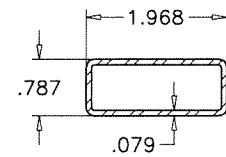
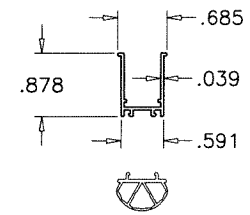
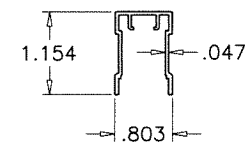
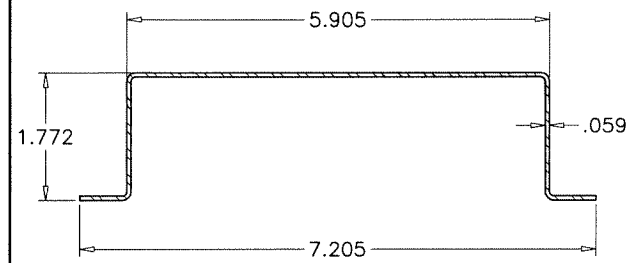
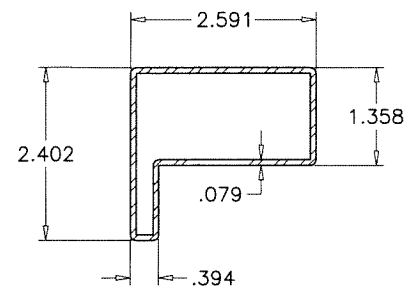
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SERIES 'SYNJA-12' INSWING PIVOT DOOR (L.M.I.)
OKOS VENEZIA SRL
VIA DELLA TECNICA NO. 6
30020 GRUARO - ITALY
TEL. 0039 0421 7671 FAX 0039 0421 767 222

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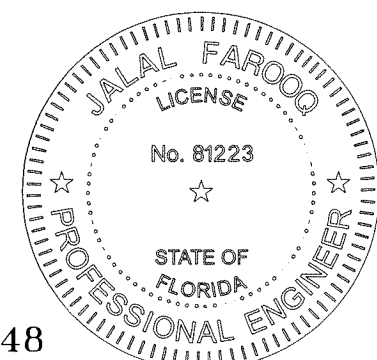
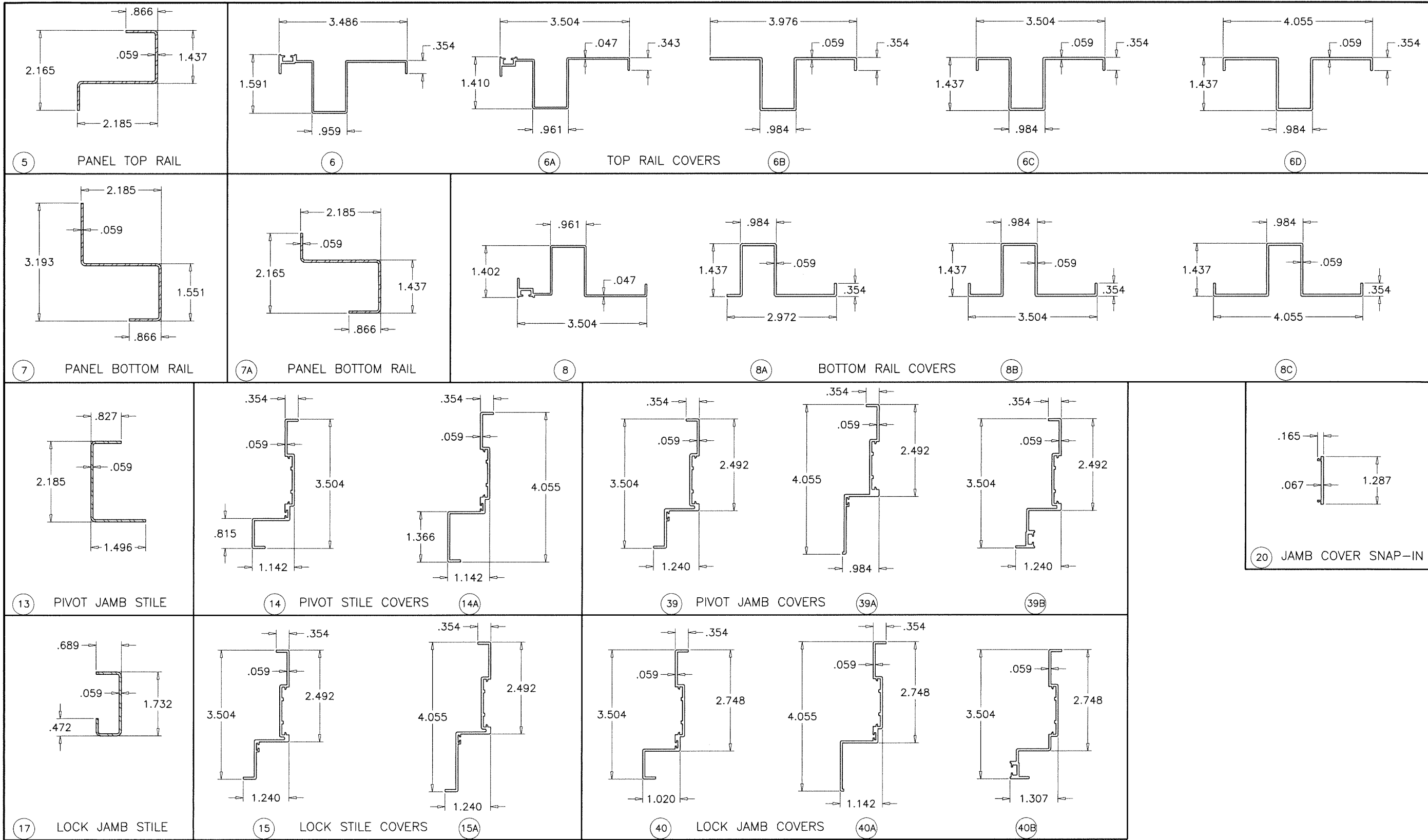
AIKOS VENEZIA SRL
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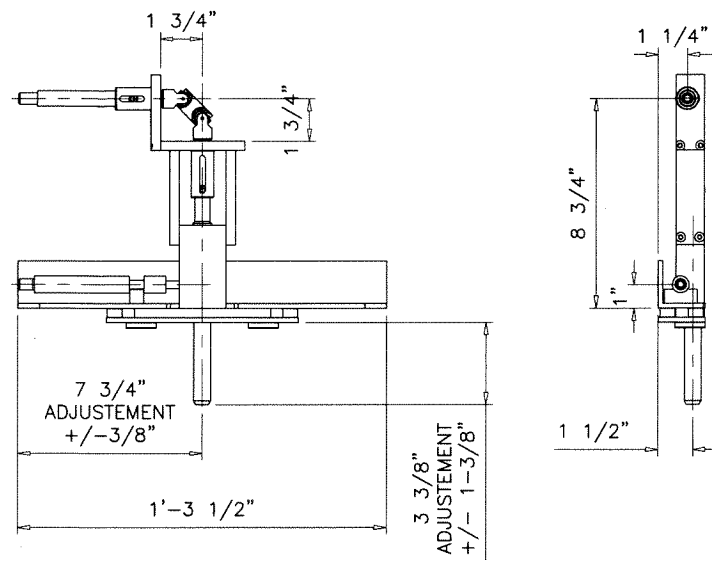
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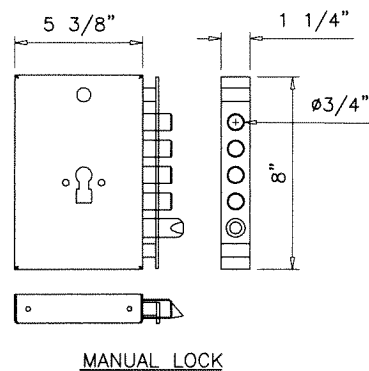
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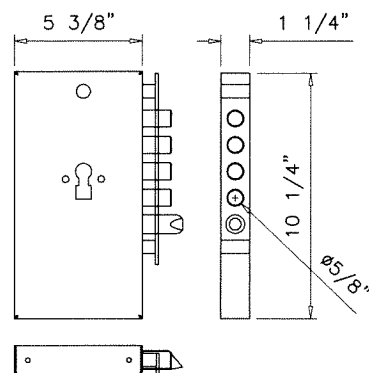
date: 09-23-22	scale: 3/8" = 1"	dr. by: TARIQ	chk. by:
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30 PIVOT HINGE
SCALE 1/8" = 1"



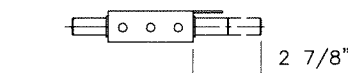
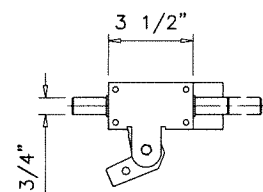
MANUAL LOCK



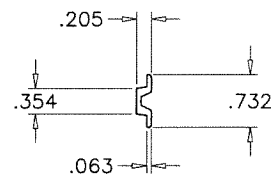
MOTORIZED LOCK

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

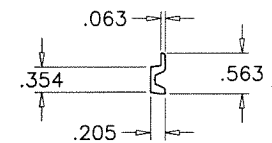
5 POINT CENTER LOCK (#31) CONNECTED TO TOP, BOTTOM & SIDE
SINGLE POINT LOCKS (#32) WITH CONNECTING RODS (#33)



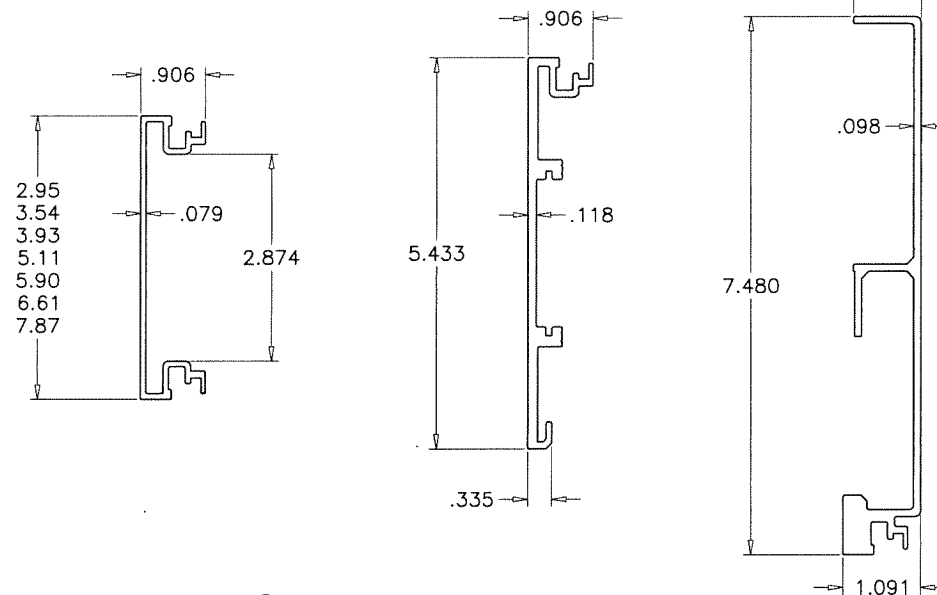
32 SINGLE POINT LOCK
SCALE 1/8" = 1"



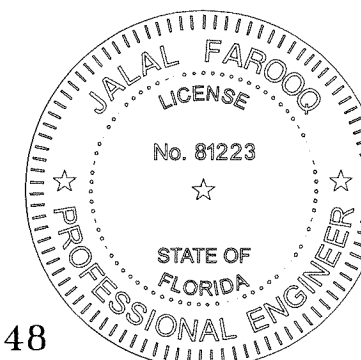
34 INTERMEDIATE CLADDING CLIP



35 TOP/BOTTOM CLADDING CLIP



41 SKYDOOR SLAT PROFILES



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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

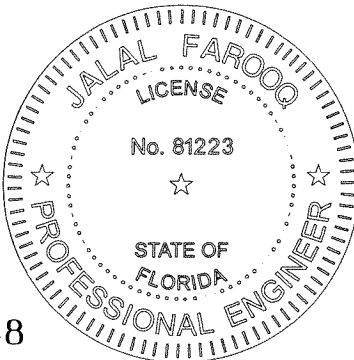
1-1/4" X 7" LONG CONCEALED NYLON KEEPERS FACING CENTER LOCK
1-1/4" X 1-1/2" LONG CONCEALED NYLON KEEPERS FACING SINGLE LOCKS

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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