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Product Approval
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FL #	FL22251-R6								
Application Type	Revision								
Code Version	2023								
Application Status	Approved								
Comments									
Archived	☐								
Product Manufacturer	E.S. Windows, Inc.								
Address/Phone/Email	10653 NE Quaybridge Ct. Miami, FL 33138 (305) 638-5151 ssabagh@energiasolarsa.com								
Authorized Signature	Jalal Farooq veronica@afceng.com								
Technical Representative	Samir Sabagh								
Address/Phone/Email	3550 NW 49th St. Miami, FL 33142 (305) 638-5151 ssabagh@energiasolarsa.com								
Quality Assurance Representative									
Address/Phone/Email									
Category	Exterior Doors								
Subcategory	Sliding 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	Jalal Farooq								
Florida License	PE-81223								
Quality Assurance Entity	Keystone Certifications, Inc.								
Quality Assurance Contract Expiration Date	03/20/2035								
Validated By	Abel Carrasco, PE ☒ Validation Checklist - Hardcopy Received								
Certificate of Independence	FL22251_R6_COI_SS - Certificate of Independence.pdf								
Referenced Standard and Year (of Standard)	<table> <thead> <tr> <th>Standard</th> <th>Year</th> </tr> </thead> <tbody> <tr> <td>TAS 201</td> <td>1994</td> </tr> <tr> <td>TAS 202</td> <td>1994</td> </tr> <tr> <td>TAS 203</td> <td>1994</td> </tr> </tbody> </table>	Standard	Year	TAS 201	1994	TAS 202	1994	TAS 203	1994
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

07/28/2023

Date Validated

07/30/2023

Date Pending FBC Approval

08/02/2023

Date Approved

10/17/2023

Summary of Products

FL #	Model, Number or Name	Description
22251.1	Series 6000 Aluminum Sliding Glass Door (2 Track)	Large missile impact resistant aluminum sliding glass door.
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +85/-145 Other: See attached drawing W17-37 for installation instructions and span vs load combinations.		Installation Instructions FL22251_R6_II_SS - 6000 Alum SGD - 2 TRACK (LMI)-DWG W17-37 (2023).pdf Verified By: Jalal Farooq PE # 81223 Created by Independent Third Party: Yes Evaluation Reports FL22251_R6_AE_SS - 6000 Alum SGD - 2 TRACK (LMI)-PAE 2023.pdf Created by Independent Third Party: Yes
22251.2	Series 6000-3 Aluminum Sliding Glass Door (3 Track)	Large missile impact resistant aluminum sliding glass door.
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +85/-125 Other: See attached drawing 19-09F for installation instructions and span vs load combinations.		Installation Instructions FL22251_R6_II_SS - 6000 Alum SGD - 3 TRACK (LMI)-DWG 19-09F 2023.pdf Verified By: Jalal Farooq PE #81223 Created by Independent Third Party: Yes Evaluation Reports FL22251_R6_AE_SS - 6000 Alum SGD - 3 TRACK (LMI)-PAE 2023.pdf Created by Independent Third Party: Yes
22251.3	Series 6100 Aluminum Sliding Glass Door (2 Track Wet Glazed)	Small missile impact resistant, wet glazed aluminum sliding glass door.
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +85/-145 Other: See attached drawing W17-38 for installation instructions and span vs load combinations.		Installation Instructions FL22251_R6_II_SS - 6100 Alum SGD - 2 Track (SMI-Wet)-DWG W17-38 (2023).pdf Verified By: Jalal Farooq PE # 81223 Created by Independent Third Party: Yes Evaluation Reports FL22251_R6_AE_SS - 6100 Alum SGD - 2 Track (SMI-Wet)-PAE 2023.pdf Created by Independent Third Party: Yes
22251.4	Series 6100 Aluminum Sliding Glass Door (Dry Glazed)	Small missile impact resistant, dry glazed aluminum sliding glass door.
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +110/-140 Other: See attached drawing W17-41 for installation instructions and span vs load combinations.		Installation Instructions FL22251_R6_II_SS - 6100 Alum SGD (SMI-Dry)-DWG W17-41 (2023).pdf Verified By: Jalal Farooq PE # 81223 Created by Independent Third Party: Yes Evaluation Reports FL22251_R6_AE_SS - 6100 Alum SGD (SMI-Dry)-PAE 2023.pdf Created by Independent Third Party: Yes
22251.5	Series 6100-3 Aluminum Sliding Glass Door (3 Track Wet Glazed)	Small missile impact resistant, wet glazed aluminum sliding glass door.
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +85/-125 Other: See attached drawing 19-10F for installation instructions and span vs load combinations.		Installation Instructions FL22251_R6_II_SS - 6100 Alum SGD - 3 Track (SMI-Wet)-DWG 19-10F (2023).pdf Verified By: Jalal Farooq PE #81223 Created by Independent Third Party: Yes Evaluation Reports FL22251_R6_AE_SS - 6100 Alum SGD - 3 Track (SMI-Wet)-PAE 2023.pdf Created by Independent Third Party: Yes

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Product Approval Accepts:



DAYLITE OPENINGS:
D.L.O. HEIGHT = PANEL HEIGHT - 7.000"
D.L.O. WIDTH = PANEL WIDTH - 6.937"
PANEL HEIGHT = FRAME HEIGHT - 1.375"

SERIES-6000 ALUMINUM SLIDING GLASS DOOR

SEE SHEETS 3 THRU 5 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE AND REQUIRED REINFORCING.

USING CHART ON SHEET 6 SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOADS REQUIRED.

LOWER DESIGN PRESSURES FROM GLASS OR ANCHOR CHARTS WILL APPLY TO ENTIRE SYSTEM.

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.

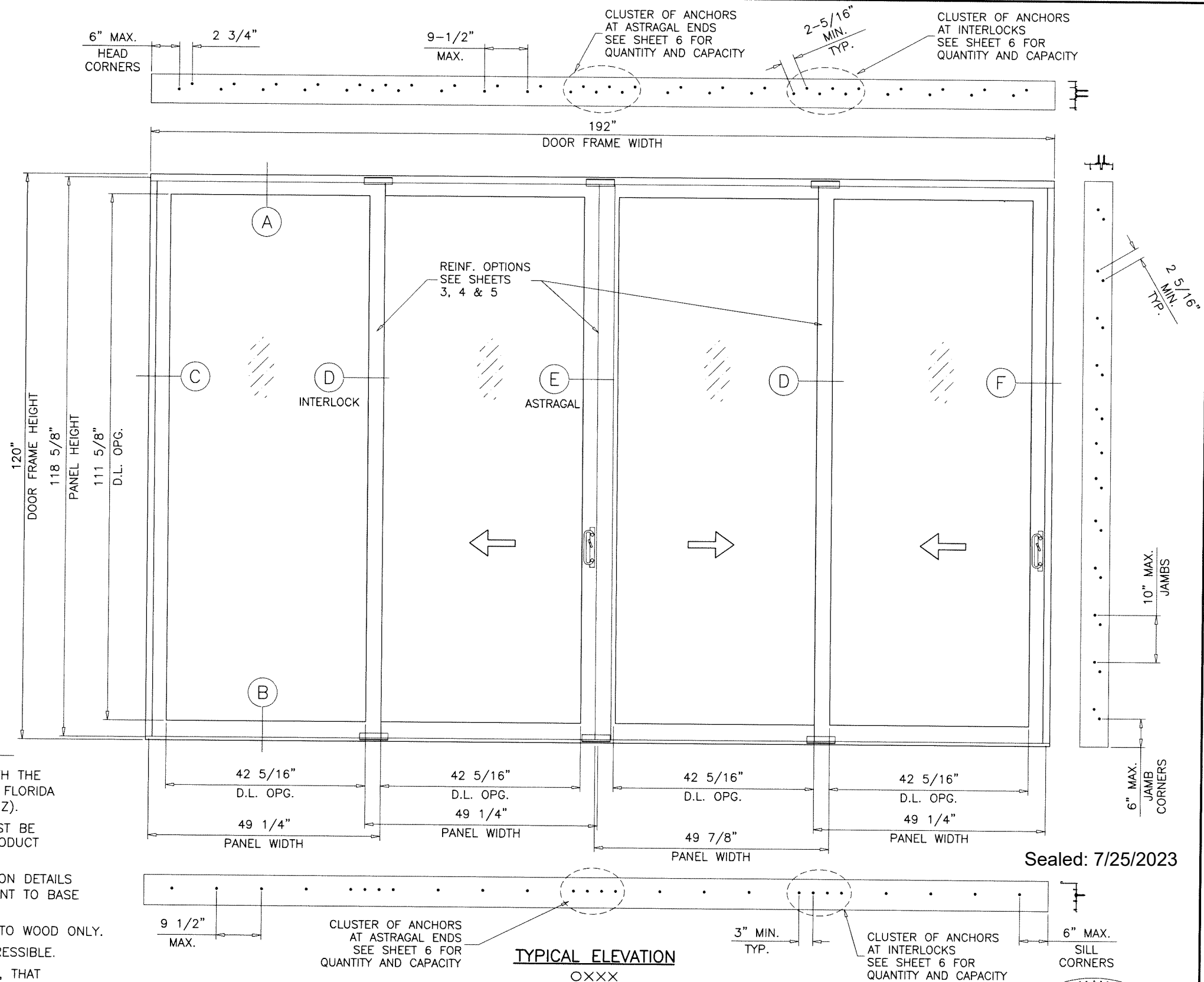
MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2020/2023 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

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)'.

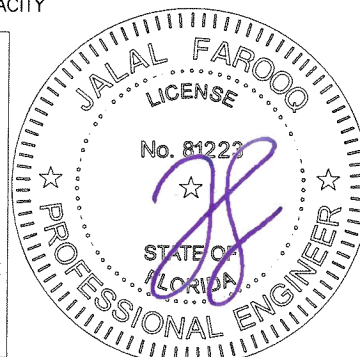
MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE. LABELING TO COMPLY WITH SECTION 1709.9.2.



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

VERIFY COMPLIANCE WITH EGRESS LIMITATIONS WHERE REQUIRED.

- A- CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT.
- B- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
- C- SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D. ENGINEER OF RECORD, ACTING AS A DELEGATED ENGINEER TO THE P.E.D. ENGINEER SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.
- D- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.



Sealed: 7/25/2023

af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\W17-37ES

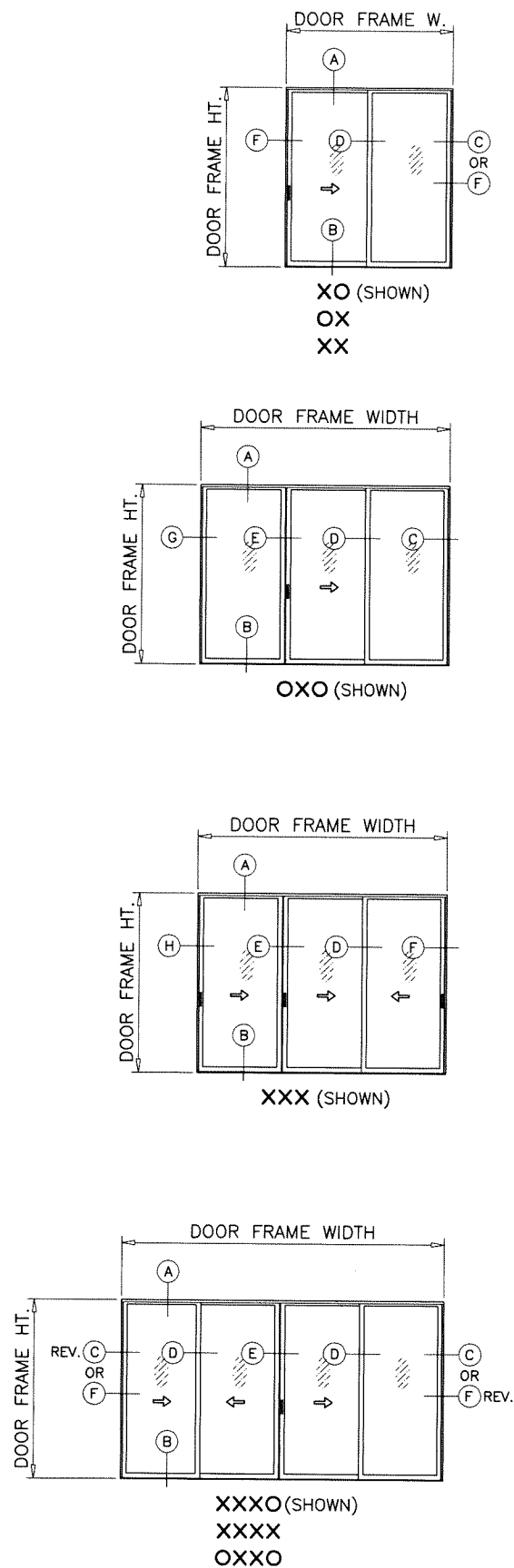
SERIES-6000 ALUM SLIDING GLASS DOOR (L.M.I.)
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:	no	date	by	description
	A	10.05.17		UPDATED TO 2017 FBC
	B	02.18.19		GENERAL REVISION
	C	10.14.20		UPDATED TO 2020 FBC
	D	07.25.23		UPDATED TO 2023 FBC

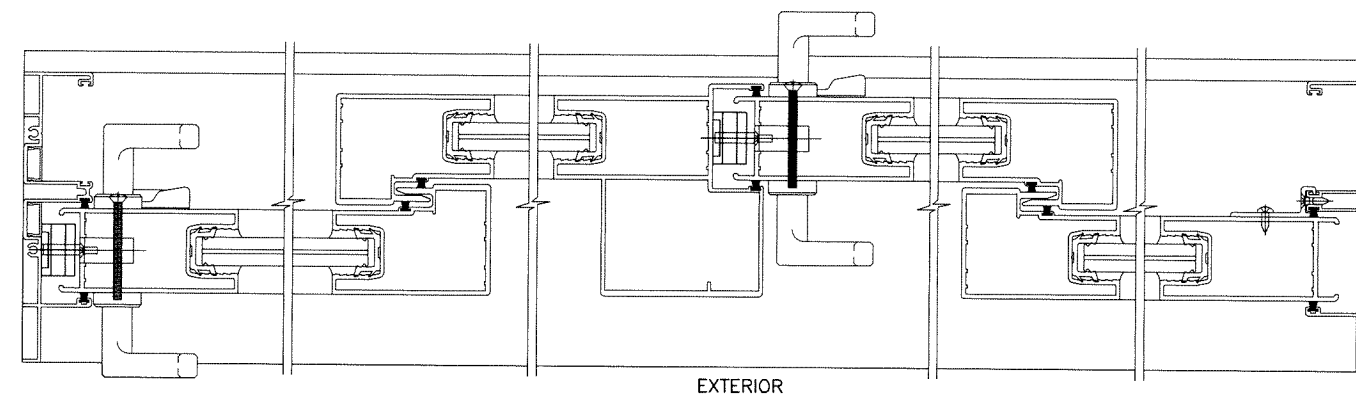
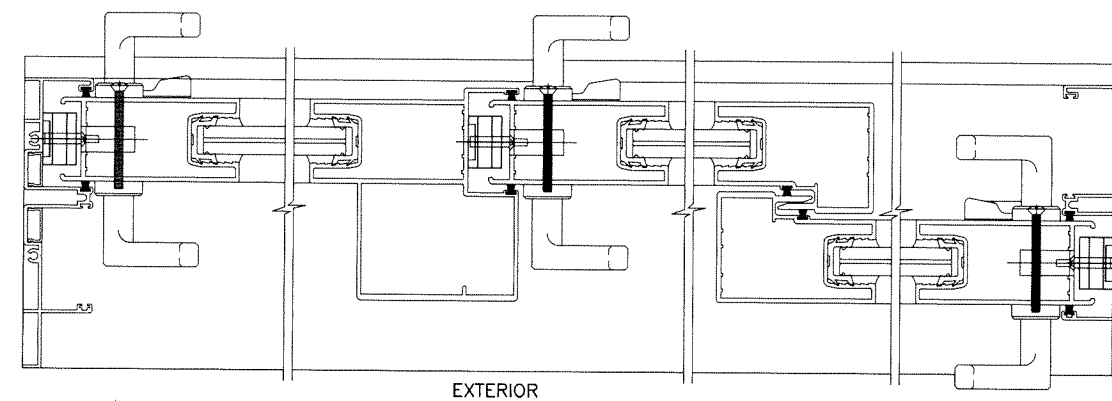
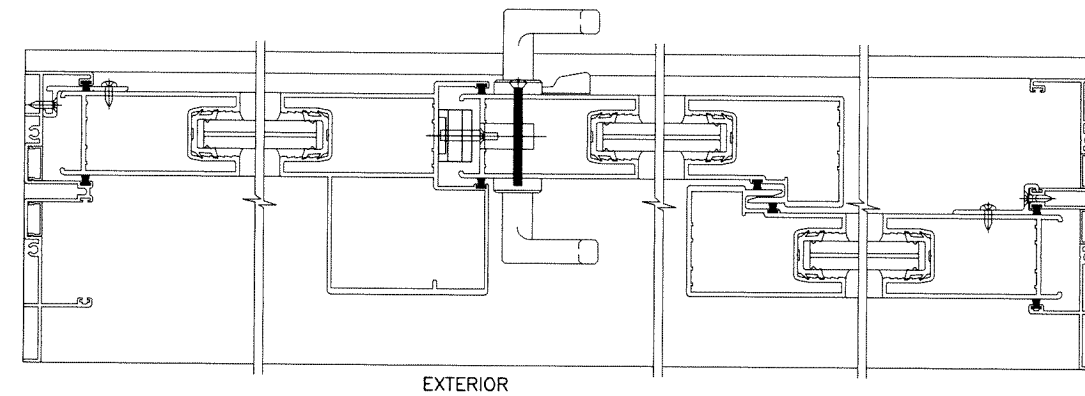
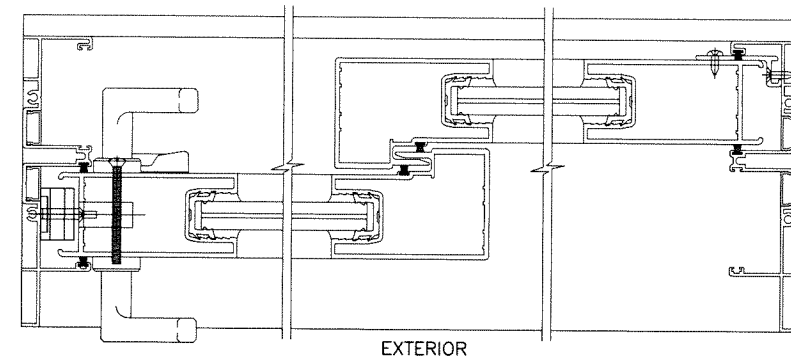
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chk. by:

drawing no.
W17-37
sheet 1 of 13

FL #22251



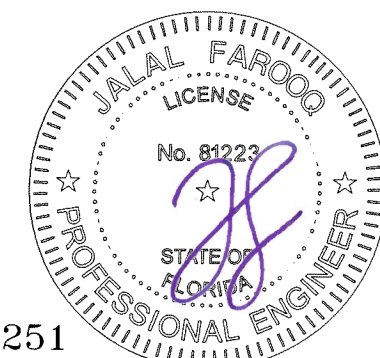
APPROVED CONFIGURATIONS



NOTE:
CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSE
SEE APPLICABLE DESIGN PRESSURE & SIZE IN
SHEETS 3 THRU 5 AND ANCHOR INSTALLATION IN SHEET 6.

MAX. OVERALL DOOR FRAME AREA NOT TO EXCEED 160 SQ. FT.

Sealed: 7/25/2023



FL #22251

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AL-FAROOQ CORPORATION
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COMP-ANL W17-37ES

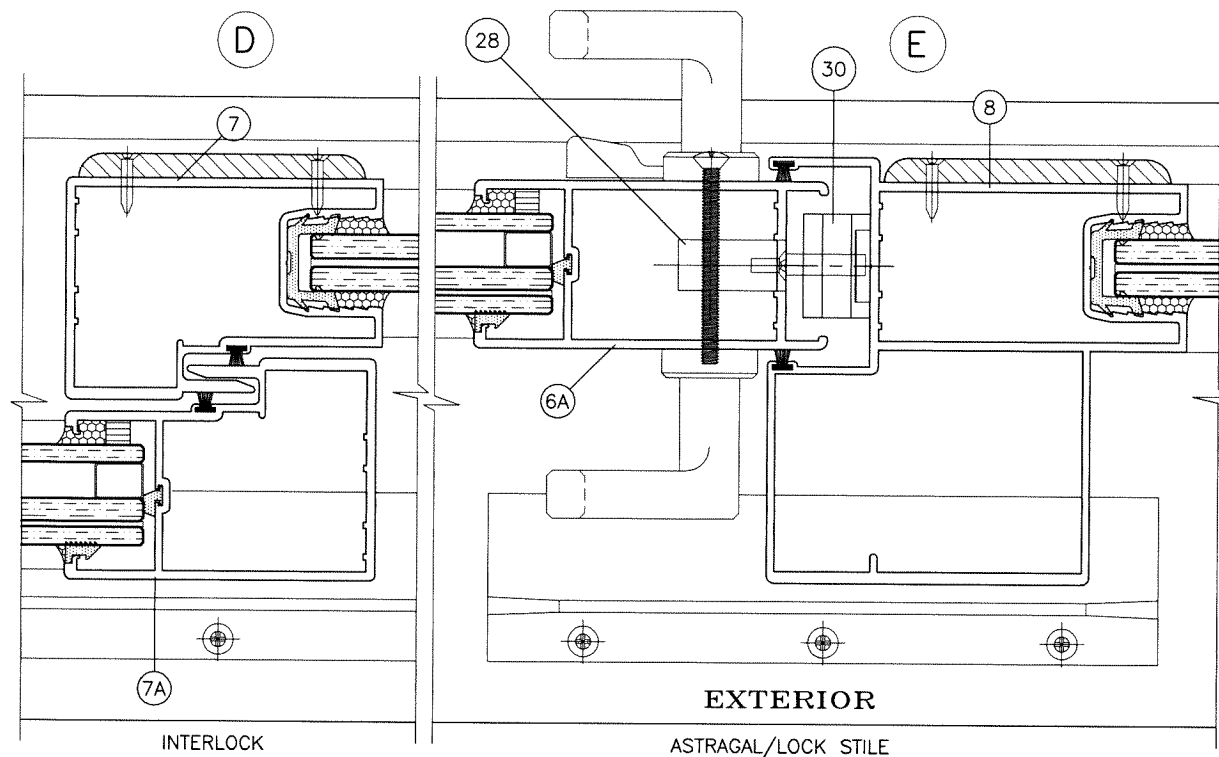
SERIES-6000 ALUM SLIDING GLASS DOOR (L.M.I.)

E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

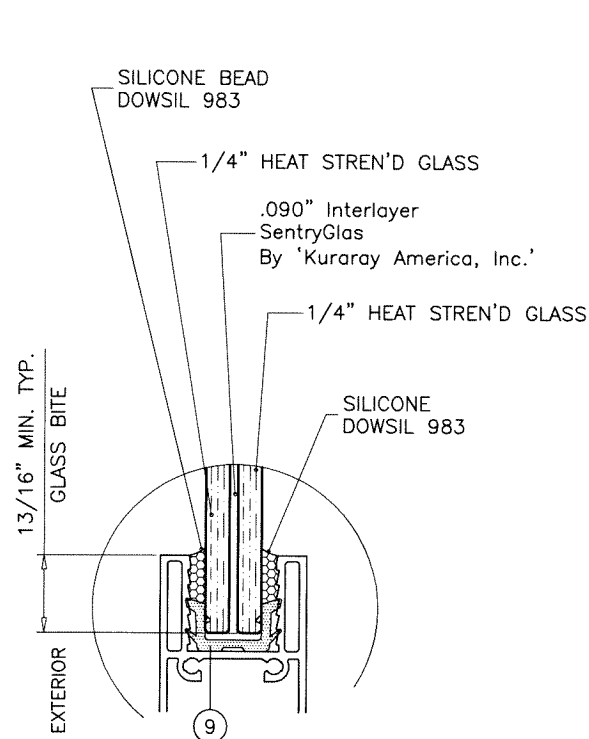
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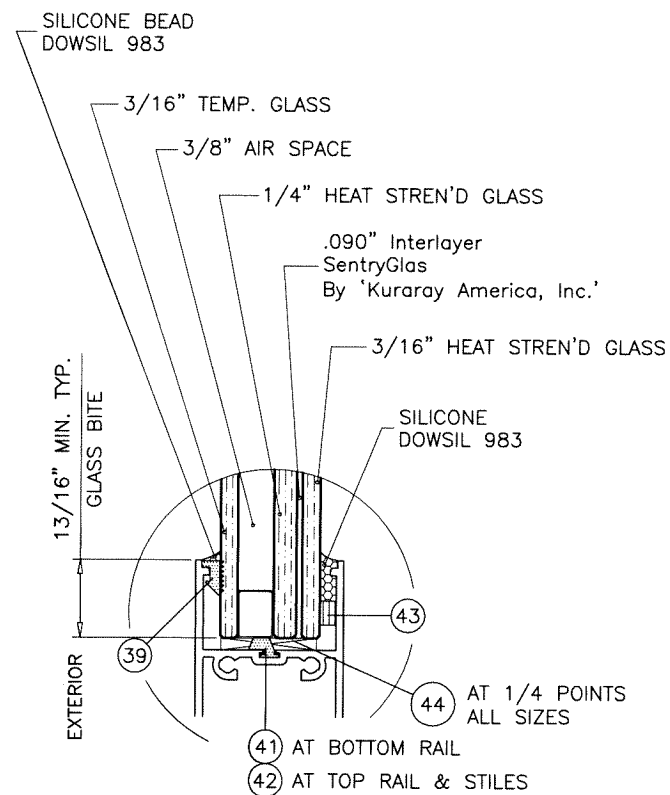
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W17-37
sheet 2 of 13



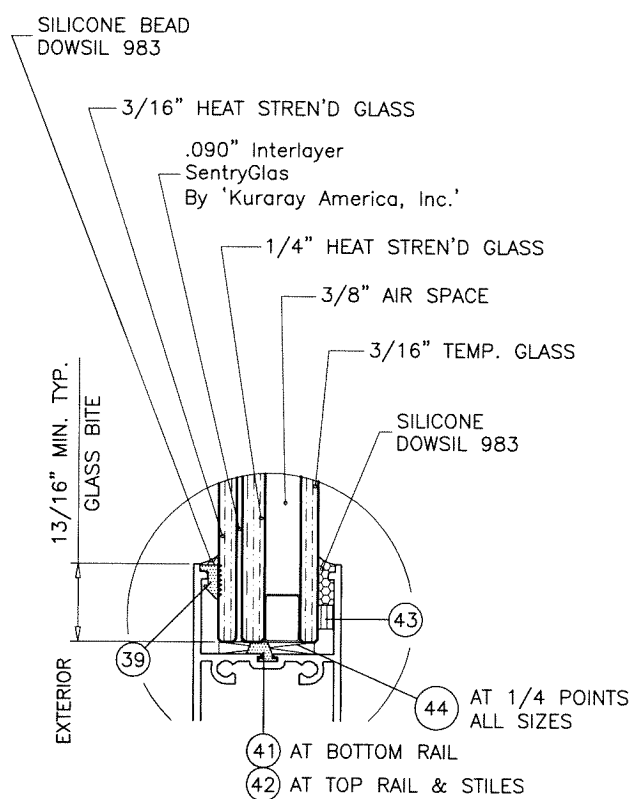
OPTION #1
WITHOUT REINFORCING



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



GLASS TYPE 'B'
1" OVERALL INSUL. LAM. GLASS



GLASS TYPE 'B' (REVERSE)
1" OVERALL INSUL. LAM. GLASS

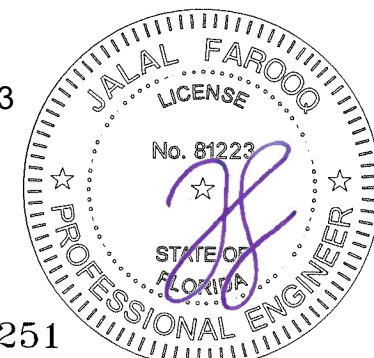
GLAZING OPTIONS

DESIGN LOAD CAPACITY - PSF WITHOUT REINFORCING					
PANEL WIDTH NOMINAL INCHES	DOOR FRAME HEIGHT INCHES	GLASS TYPE 'A'		GLASS TYPE 'B' & 'B' REVERSE	
		EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
30	82	75.0	75.0	75.0	75.0
36		75.0	75.0	75.0	75.0
42		75.0	75.0	75.0	75.0
44		75.0	75.0	75.0	75.0
48		75.0	75.0	75.0	75.0
53		67.9	67.9	67.9	67.9
60		60.0	60.0	60.0	60.0
30	96	75.0	75.0	75.0	75.0
36		75.0	75.0	75.0	75.0
42		75.0	75.0	75.0	75.0
44		75.0	75.0	75.0	75.0
48		75.0	75.0	75.0	75.0
53		67.9	67.9	67.9	67.9
30	102	75.0	75.0	75.0	75.0
36		75.0	75.0	75.0	75.0
42		75.0	75.0	75.0	75.0
44		75.0	75.0	75.0	75.0
48		75.0	75.0	75.0	75.0
50		75.0	75.0	75.0	75.0
30	108	75.0	75.0	75.0	75.0
36		75.0	75.0	75.0	75.0
42		75.0	75.0	75.0	75.0
44		75.0	75.0	75.0	75.0
48		75.0	75.0	75.0	75.0
48		75.0	75.0	75.0	75.0

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

3/8" AIR SPACE CONSISTING OF:
SPACER:
'HELIMA' LOW PROFILE ALUMINUM SPACER
BY 'LINGERMANN GMBH'
AROUND THE PERIMETER OF THE GLASS.
PERIMETER SEALANT:
SILICONE
DOWSIL 791
GE 2000

Sealed: 7/25/2023



FL #22251

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

COMP-ANL W17-37ES

SERIES-6000 ALUM SLIDING GLASS DOOR (L.M.I.)

E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:

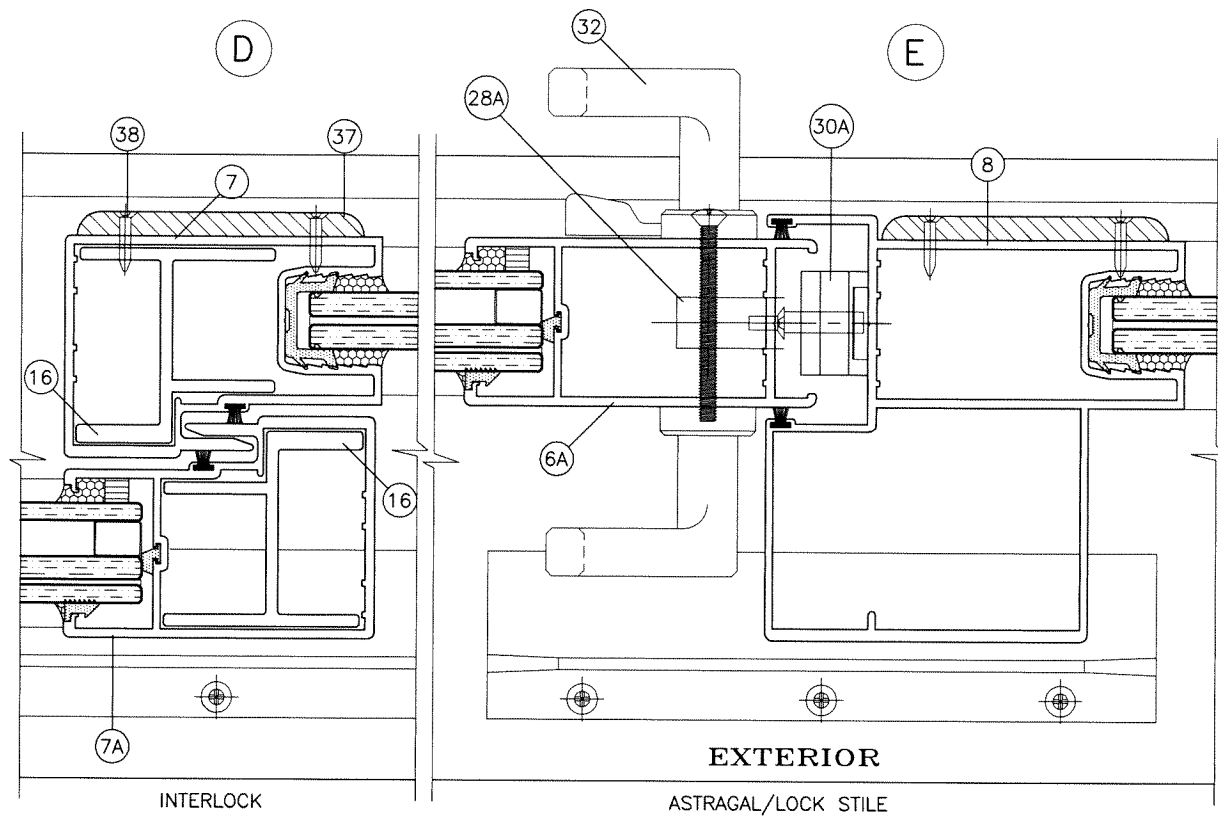
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chk. by:

drawing no.
W17-37

sheet 3 of 13

FL #22251

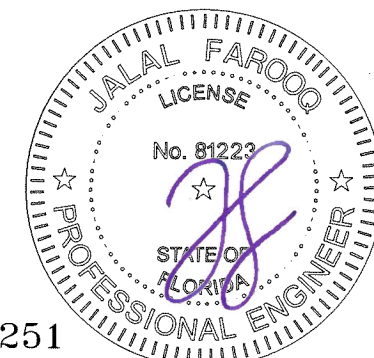


OPTION #2
ALUMINUM REINFORCING AT INTERLOCK

DESIGN LOAD CAPACITY - PSF REINFORCING AT INTERLOCK							
PANEL WIDTH NOMINAL INCHES	DOOR FRAME HEIGHT INCHES	GLASS TYPE 'A'		GLASS TYPE 'B'		GLASS TYPE 'B' REVERSE	
		EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
36	82	85.0	145.0	85.0	145.0	85.0	110.0
40		85.0	145.0	85.0	145.0	85.0	110.0
44		85.0	145.0	85.0	145.0	85.0	110.0
48		85.0	145.0	85.0	145.0	85.0	110.0
50		81.6	139.2	81.6	139.2	81.6	105.6
53		77.0	131.3	77.0	131.3	77.0	99.6
56		72.9	124.3	72.9	124.3	72.9	94.3
60		68.0	116.0	68.0	116.0	68.0	88.0
36	96	85.0	145.0	85.0	145.0	85.0	110.0
40		85.0	145.0	85.0	145.0	85.0	110.0
44		85.0	145.0	85.0	145.0	85.0	110.0
48		85.0	145.0	85.0	145.0	85.0	110.0
50		81.6	139.2	81.6	139.2	81.6	105.6
53		77.0	131.3	77.0	131.3	77.0	99.6
56		72.9	94.3	72.9	94.3	72.9	94.3
60		68.0	88.0	68.0	88.0	68.0	88.0
36	102	85.0	145.0	85.0	145.0	85.0	110.0
40		85.0	145.0	85.0	145.0	85.0	110.0
44		85.0	145.0	85.0	145.0	85.0	110.0
48		85.0	145.0	85.0	145.0	85.0	110.0
50		81.6	139.2	81.6	139.2	81.6	105.6
53		77.0	99.6	77.0	99.6	77.0	99.6
56		72.9	94.3	72.9	94.3	72.9	94.3
36	108	85.0	145.0	85.0	145.0	85.0	110.0
40		85.0	145.0	85.0	145.0	85.0	110.0
44		85.0	145.0	85.0	145.0	85.0	110.0
48		85.0	145.0	85.0	140.6	85.0	110.0
50		81.6	105.6	81.6	105.6	81.6	105.6
53		77.0	99.6	77.0	99.6	77.0	99.6
36	114	85.0	110.0	85.0	110.0	85.0	110.0
40		85.0	110.0	85.0	110.0	85.0	110.0
44		85.0	110.0	85.0	110.0	85.0	110.0
48		85.0	110.0	85.0	110.0	85.0	110.0
50		81.6	105.6	81.6	105.6	81.6	105.6
36	120	85.0	110.0	85.0	110.0	85.0	110.0
40		85.0	110.0	85.0	110.0	85.0	110.0
44		85.0	110.0	85.0	110.0	85.0	110.0
48		85.0	110.0	85.0	110.0	85.0	110.0

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
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AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCA05-DEC-219

Sealed: 7/25/2023



FL #22251

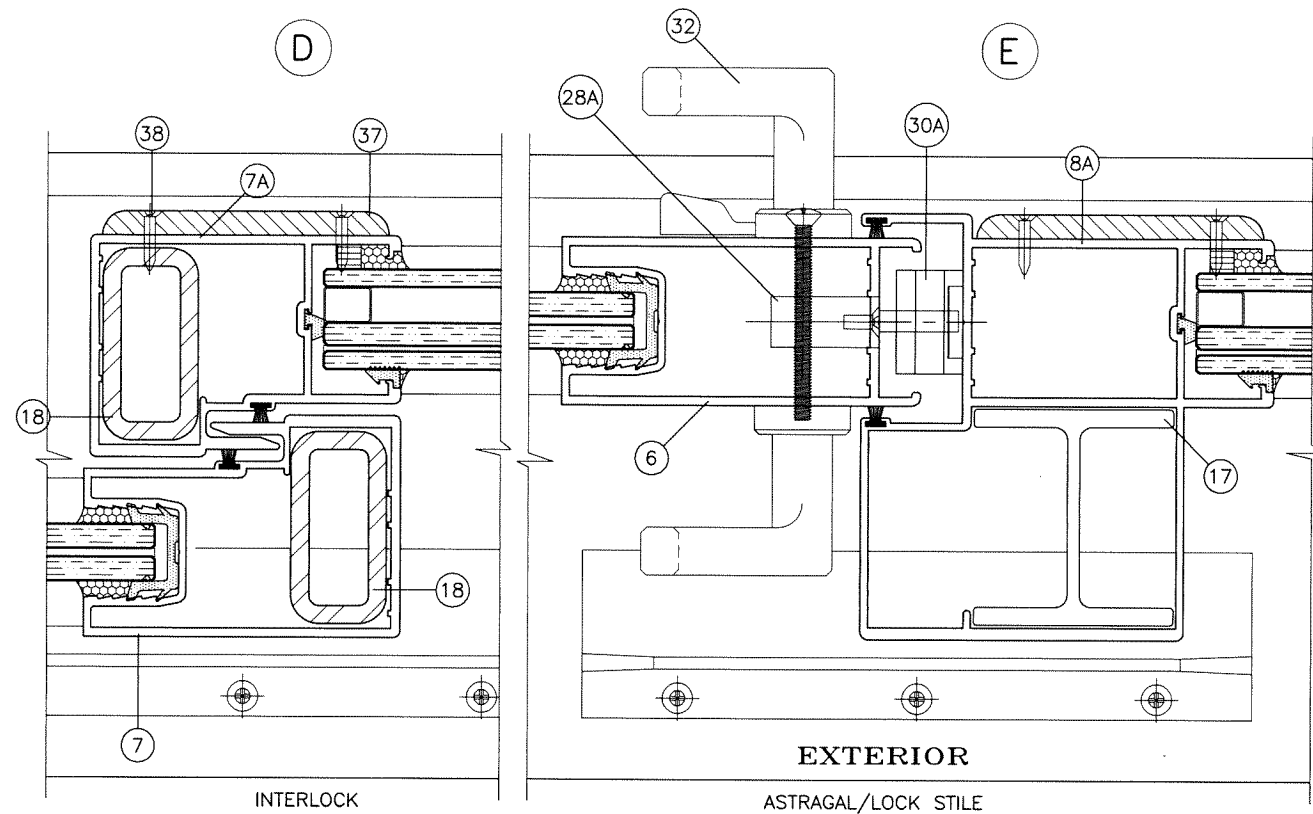
AL-FAROOQ CORPORATION
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W17-37
sheet 4 of 13

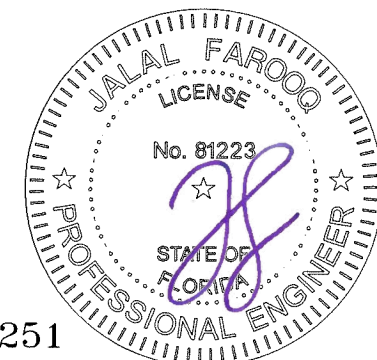


OPTION #3
 STEEL REINFORCING AT INTERLOCK
 ALUMINUM REINFORCING AT ASTRAGAL

DESIGN LOAD CAPACITY - PSF REINFORCING AT INTERLOCK & ASTRAGAL							
PANEL WIDTH NOMINAL INCHES	DOOR FRAME HEIGHT INCHES	GLASS TYPE 'A'		GLASS TYPE 'B'		GLASS TYPE 'B' REVERSE	
		EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
36	82	85.0	130.0	85.0	130.0	85.0	110.0
40		85.0	130.0	85.0	130.0	85.0	110.0
44		85.0	130.0	85.0	130.0	85.0	110.0
48		85.0	130.0	85.0	130.0	85.0	110.0
50		81.6	124.8	81.6	124.8	81.6	105.6
53		77.0	117.7	77.0	117.7	77.0	99.6
56		72.9	111.4	72.9	111.4	72.9	94.3
60		68.0	104.0	68.0	104.0	68.0	88.0
36	96	85.0	130.0	85.0	130.0	85.0	110.0
40		85.0	130.0	85.0	130.0	85.0	110.0
44		85.0	130.0	85.0	130.0	85.0	110.0
48		85.0	130.0	85.0	130.0	85.0	110.0
50		81.6	124.8	81.6	124.8	81.6	105.6
53		77.0	117.7	77.0	117.7	77.0	99.6
56		72.9	111.4	72.9	111.4	72.9	94.3
60		68.0	104.0	68.0	104.0	68.0	88.0
36	102	85.0	130.0	85.0	130.0	85.0	110.0
40		85.0	130.0	85.0	130.0	85.0	110.0
44		85.0	130.0	85.0	130.0	85.0	110.0
48		85.0	130.0	85.0	130.0	85.0	110.0
50		81.6	124.8	81.6	124.8	81.6	105.6
53		77.0	117.7	77.0	117.7	77.0	99.6
56		72.9	111.4	72.9	111.4	72.9	94.3
36	108	85.0	130.0	85.0	130.0	85.0	110.0
40		85.0	130.0	85.0	130.0	85.0	110.0
44		85.0	130.0	85.0	130.0	85.0	110.0
48		85.0	125.7	85.0	125.7	85.0	110.0
50		81.6	124.8	81.6	124.8	81.6	105.6
53		77.0	117.7	77.0	117.7	77.0	99.6
36	114	85.0	130.0	85.0	130.0	85.0	110.0
40		85.0	130.0	85.0	130.0	85.0	110.0
44		85.0	125.2	85.0	125.2	85.0	110.0
48		85.0	117.3	85.0	117.3	85.0	110.0
50		81.6	105.6	81.6	105.6	81.6	105.6
36	120	85.0	130.0	85.0	130.0	85.0	110.0
40		85.0	126.7	85.0	126.7	85.0	110.0
44		85.0	117.6	85.0	117.6	85.0	110.0
48		85.0	110.0	85.0	110.0	85.0	110.0

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

Sealed: 7/25/2023



FL #22251

af c
AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
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 TEL. (305) 264-8100 FAX. (305) 262-6978
 COMP-ANL W17-37ES

SERIES-6000 ALUM SLIDING GLASS DOOR (L.M.I.)
E.S. WINDOWS, LLC
 3550 N.W. 49 STREET
 MIAMI, FL. 33142
 TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:	no	date	by	description

date: 04-06-17
 scale: 1/2" = 1"
 dr. by: TARIQ
 chk. by:

drawing no.
W17-37
 sheet 5 of 13

HEAD ANCHOR LOAD CAPACITY - PSF					
AVERAGE PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	ANCHOR TYPE 'A'		ANCHOR TYPE 'B'	ANCHOR TYPE 'C'
		6 ANCHORS AT MTG. STILE ENDS	7 ANCHORS AT MTG. STILE ENDS	6 ANCHORS AT MTG. STILE ENDS	6 ANCHORS AT MTG. STILE ENDS
		INT. (-)	INT. (-)	INT. (-)	INT. (-)
30	82	145.0	145.0	145.0	145.0
36		145.0	145.0	145.0	145.0
40		145.0	145.0	145.0	145.0
42		145.0	145.0	145.0	145.0
44		145.0	145.0	145.0	145.0
48		145.0	145.0	145.0	145.0
50		139.2	139.2	139.2	139.2
53		131.3	131.3	131.3	131.3
56	96	124.3	124.3	124.3	124.3
60		116.0	116.0	116.0	116.0
30		145.0	145.0	145.0	145.0
36		145.0	145.0	145.0	145.0
40		135.9	145.0	145.0	145.0
42		131.1	145.0	145.0	145.0
44		126.8	145.0	145.0	145.0
48		119.5	139.4	145.0	145.0
50	102	116.3	135.7	139.2	139.2
53		112.1	130.0	131.3	131.3
56		94.3	94.3	94.3	94.3
60		88.0	88.0	88.0	88.0
30		130.0	130.0	130.0	130.0
36		130.0	130.0	130.0	130.0
40		125.9	130.0	130.0	130.0
42		121.4	130.0	130.0	130.0
44	108	117.3	130.0	130.0	130.0
48		110.3	128.7	130.0	130.0
50		107.3	125.1	130.0	130.0
53		99.6	99.6	99.6	99.6
56		94.3	94.3	94.3	94.3
30		130.0	130.0	130.0	130.0
36		127.5	130.0	130.0	130.0
40		117.3	130.0	130.0	130.0
42	114	113.0	130.0	130.0	130.0
44		109.1	127.3	130.0	130.0
48		102.4	119.5	130.0	130.0
50		99.5	105.6	105.6	105.6
53		95.6	99.6	99.6	99.6
30		110.0	110.0	110.0	110.0
36		110.0	110.0	110.0	110.0
40		109.8	110.0	110.0	110.0
42	120	105.7	110.0	110.0	110.0
44		102.0	110.0	110.0	110.0
48		95.6	110.0	110.0	110.0
50		92.8	108.3	110.0	110.0
30		110.0	110.0	110.0	110.0
36		110.0	110.0	110.0	110.0
40		103.2	110.0	110.0	110.0
42		99.3	110.0	110.0	110.0
44	120	95.8	110.0	110.0	110.0
48		89.6	104.6	110.0	110.0

EXT.(+) Dp = 85 PSF MAX.

SILL ANCHOR LOAD CAPACITY - PSF			
AVERAGE PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	ANCHOR TYPE 'B'	
		4 ANCHORS AT MTG. STILE ENDS	5 ANCHORS AT MTG. STILE ENDS
		INT. (-)	INT. (-)
30	82	145.0	145.0
36		145.0	145.0
40		145.0	145.0
42		145.0	145.0
44		145.0	145.0
48		145.0	145.0
50		139.2	139.2
53		131.3	131.3
56	96	124.3	124.3
60		116.0	116.0
30		145.0	145.0
36		145.0	145.0
40		145.0	145.0
42		142.6	145.0
44		138.0	145.0
48		130.0	145.0
50	102	126.6	139.2
53		122.0	131.3
56		94.3	94.3
60		88.0	88.0
30		130.0	130.0
36		130.0	130.0
40		130.0	130.0
42		130.0	130.0
44	108	127.6	130.0
48		120.0	130.0
50		116.7	130.0
53		99.6	99.6
56		94.3	94.3
30		130.0	130.0
36		130.0	130.0
40		127.6	130.0
42	114	123.0	130.0
44		118.7	130.0
48		111.4	130.0
50		105.6	105.6
53		99.6	99.6
30		110.0	110.0
36		110.0	110.0
40		110.0	110.0
42	120	110.0	110.0
44		110.0	110.0
48		104.0	110.0
50		101.0	110.0
30		110.0	110.0
36		110.0	110.0
40		110.0	110.0
42		108.1	110.0
44	120	104.2	110.0
48		97.5	110.0

NOTE:

SEE SHEETS 3 THRU 5 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE.
USING CHART ON THIS SHEET SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN
DESIGN LOADS REQUIRED.
LOWER DESIGN PRESSURES FROM GLASS OR HEAD, SILL, JAMB ANCHOR CHARTS WILL
APPLY TO ENTIRE SYSTEM.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

— AT HEAD —

TYPE 'A'— 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

THRU 1BY BUCKS INTO CONCRETE
1-1/2" MIN. EMBED INTO CONCRETE

TYPE 'B'— 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
DIRECTLY INTO CONCRETE
1-1/2" MIN. EMBED

TYPE 'C'— #14 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)
INTO F.B.C. APPROVED MULLIONS
OR
INTO METAL STRUCTURES
(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)

— AT SILL —

TYPE 'B'— 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
DIRECTLY INTO CONCRETE
1-3/4" MIN. EMBED

— AT JAMBS —

TYPE 'A'— 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

THRU 1BY BUCKS INTO CONC. OR BLOCKS
1-1/4" MIN. EMBED INTO CONC. OR BLOCKS

TYPE 'B'— 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
DIRECTLY INTO CONC. OR BLOCKS
1-1/4" MIN. EMBED INTO CONC. OR BLOCKS

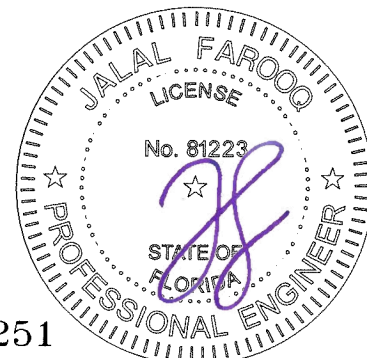
TYPE 'C'— #14 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)
INTO F.B.C. APPROVED MULLIONS
OR
INTO METAL STRUCTURES
(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

ANCHOR EDGE DISTANCES

INTO CONCRETE = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 3/4" 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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(C.A.N. 3538)

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3550 N.W. 49 STREET
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revisions:	no	date	by	description

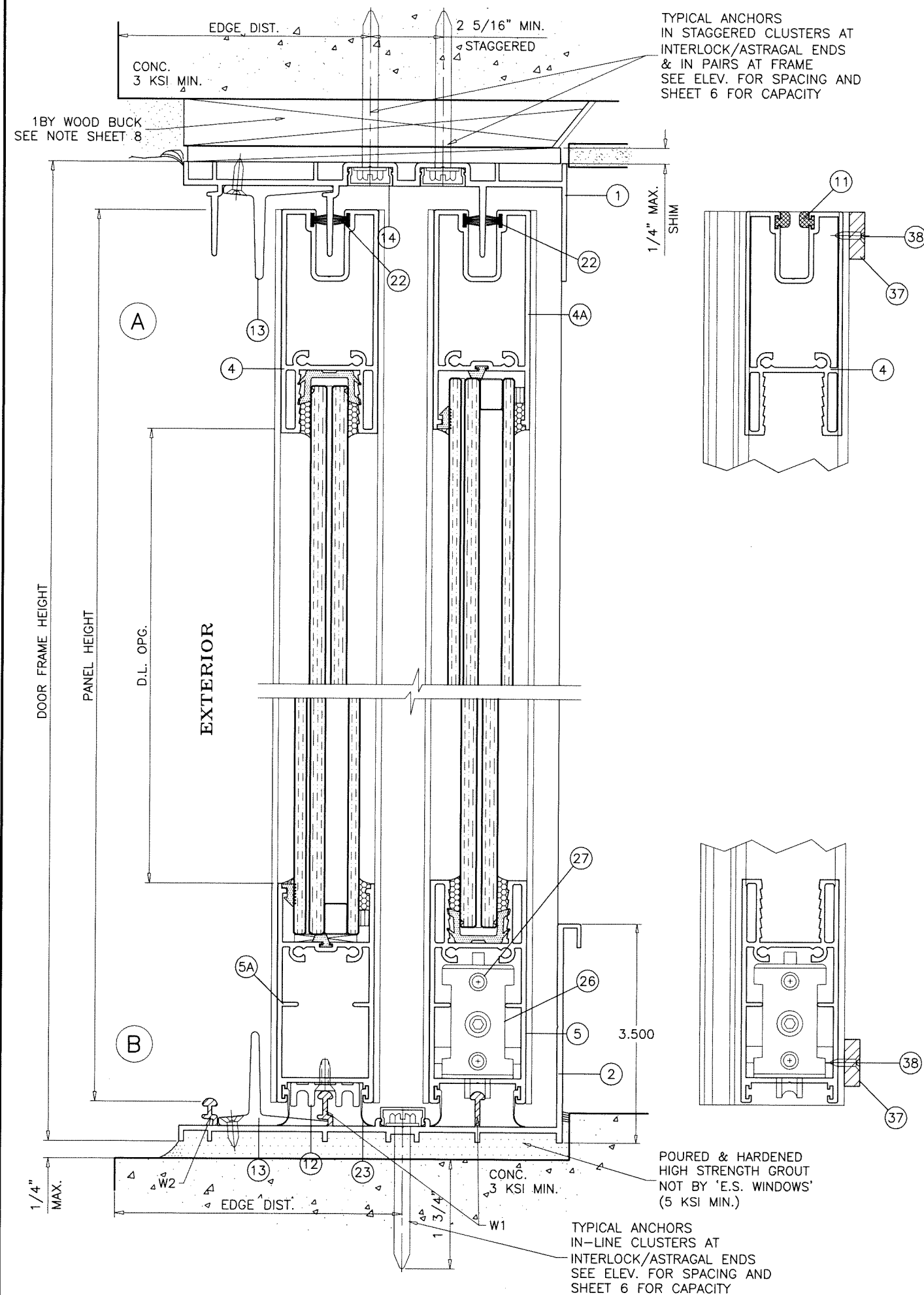
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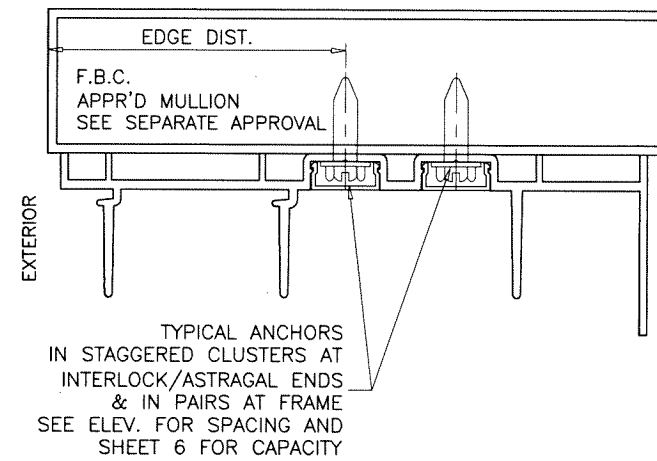
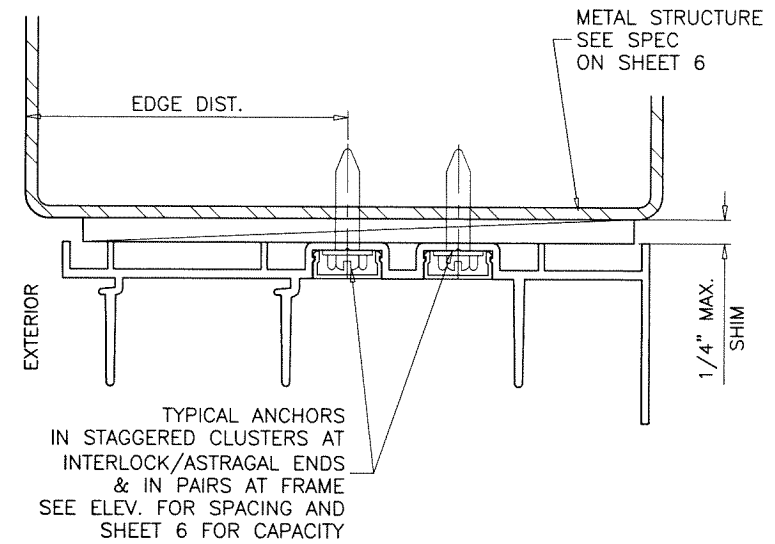
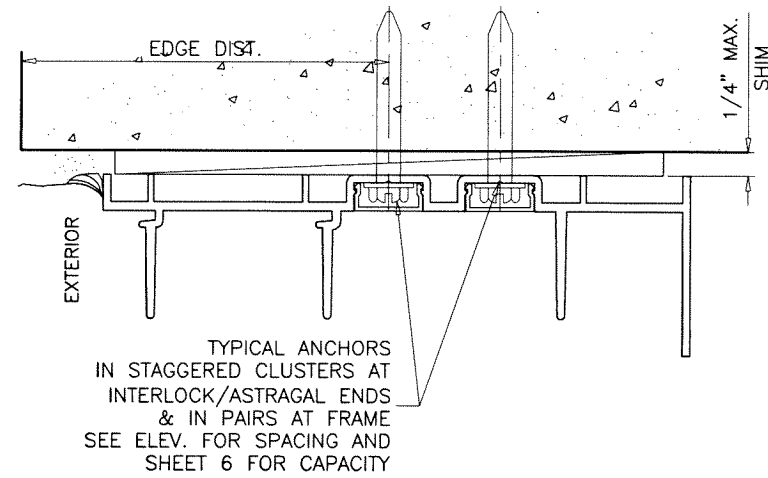
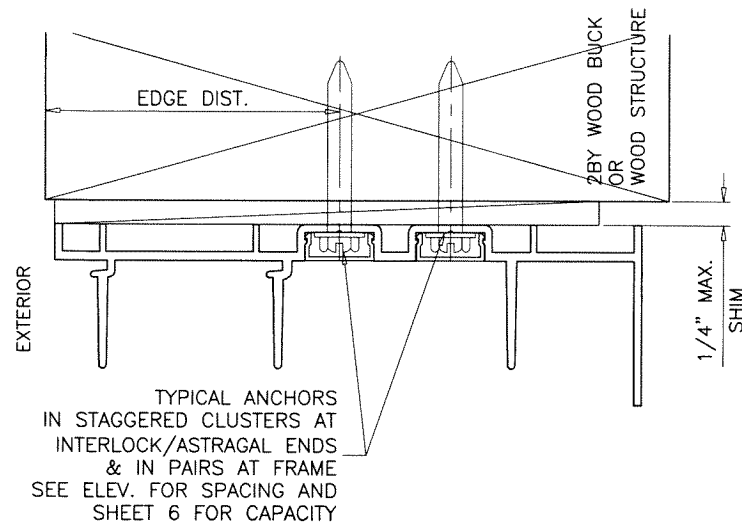
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W17-37

sheet 6 of 13

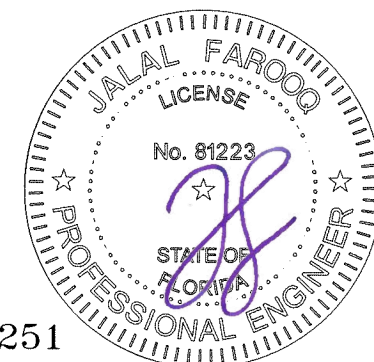
COMP-ANL W17-37ES





PROPERLY SECURED 1BY OR 2BY WOOD BUCKS AND METAL STRUCTURES NOT BY 'E.S. WINDOWS' MUST SUPPORT LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

Sealed: 7/25/2023



FL #22251

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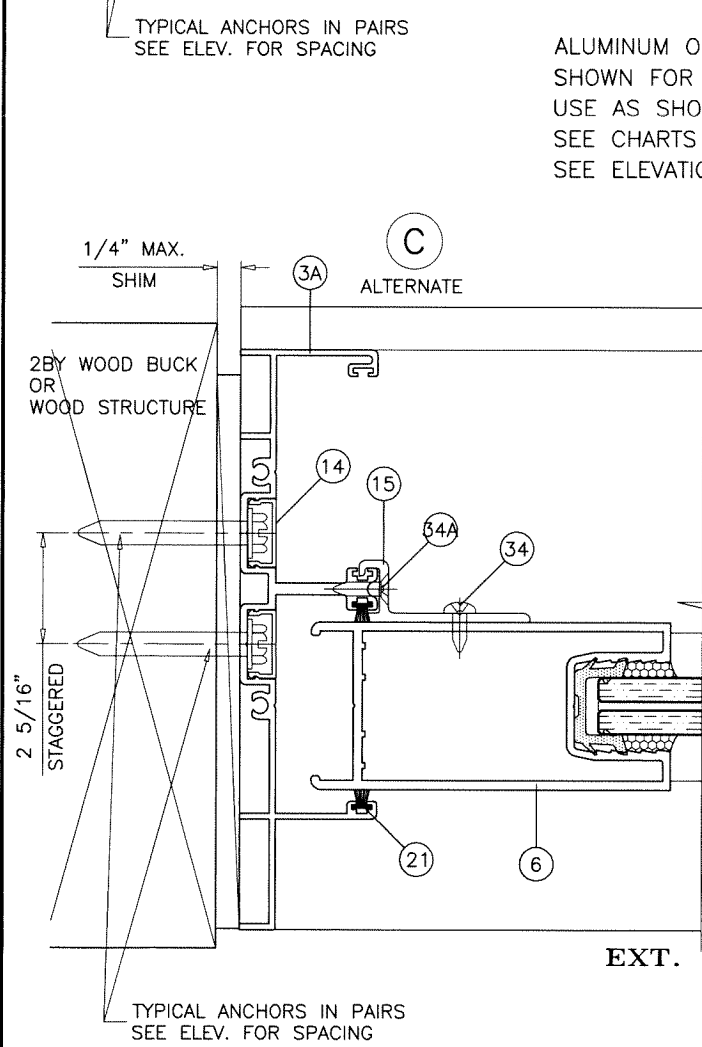
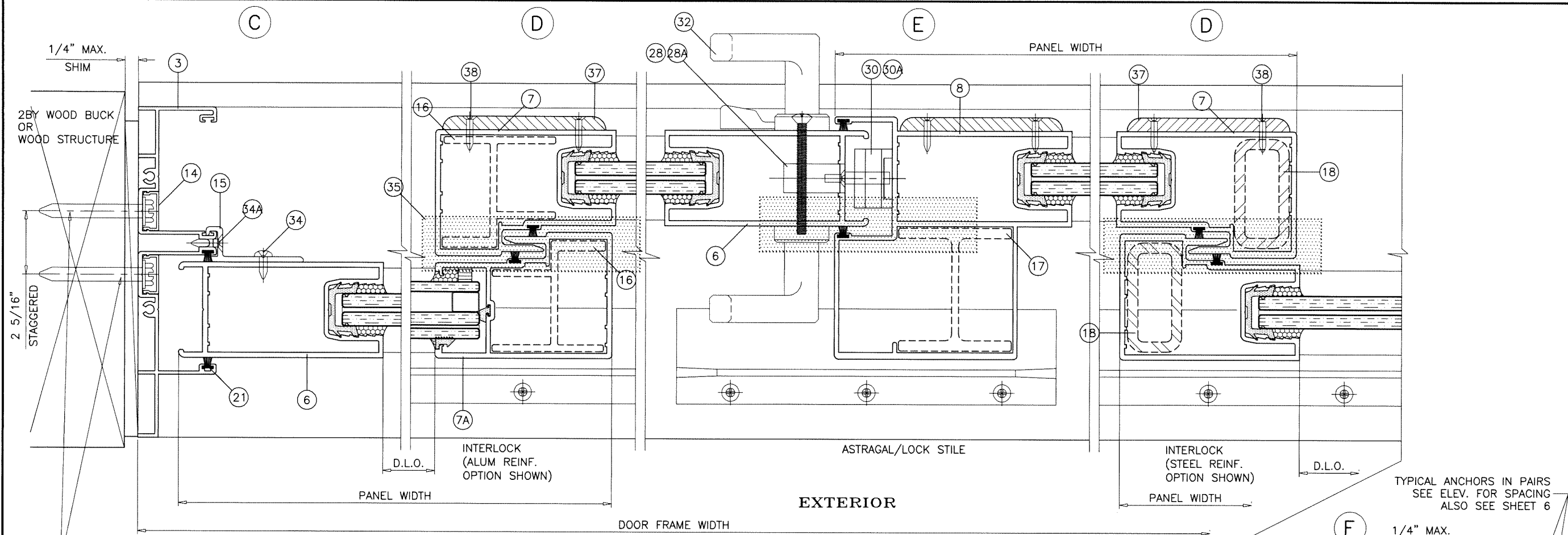
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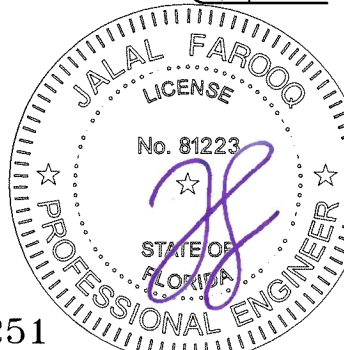
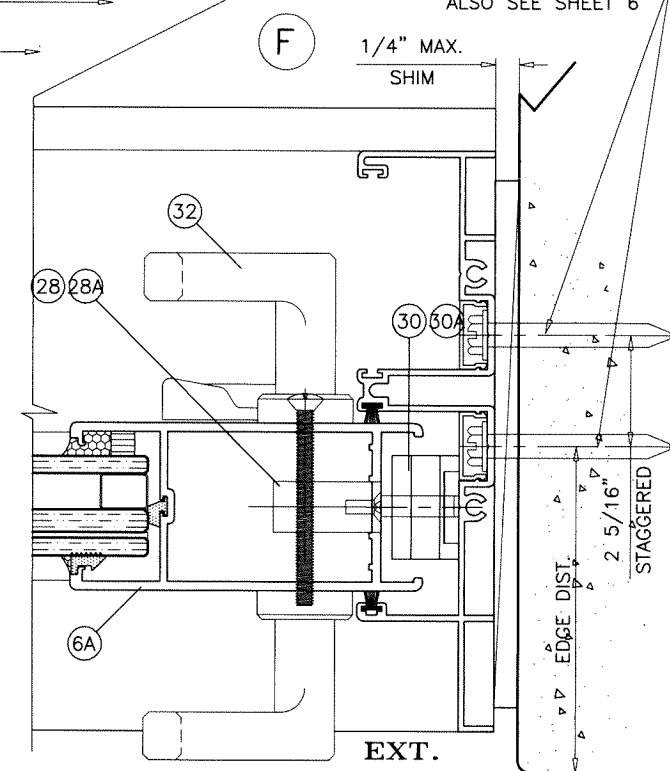
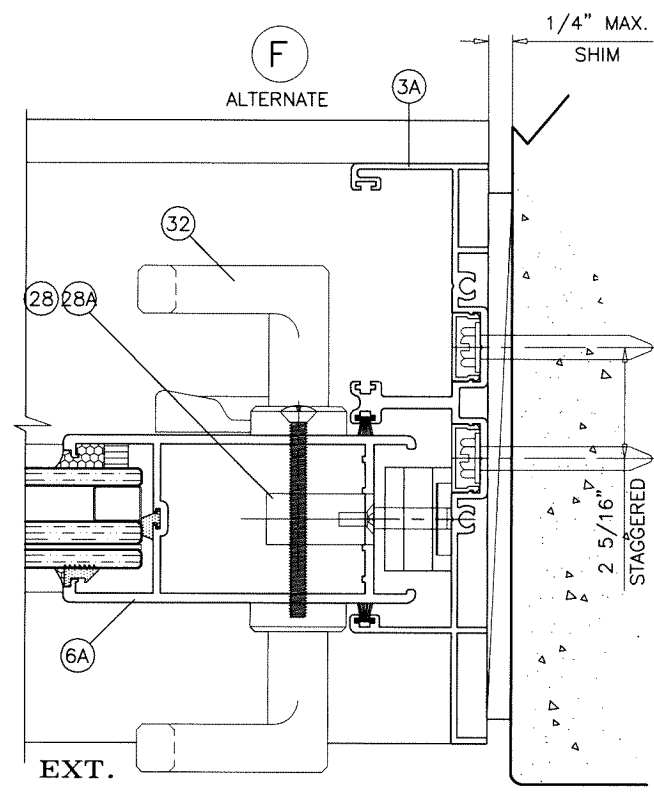
W17-37

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COMP-ANL\W17-37ES



ALUMINUM OR STEEL REINFORCING AT INTERLOCK AND ALUM REINF. ASTRAGAL/LOCK STILES SHOWN FOR ILLUSTRATION ONLY.
 USE AS SHOWN ON SHEETS 4 & 5.
 SEE CHARTS FOR REINFORCING OPTIONS LOAD CAPACITY, INCLUDING GLASS OPTIONS.
 SEE ELEVATION FOR ANCHOR SPACING AND SHEET 6 FOR ANCHOR CAPACITY.



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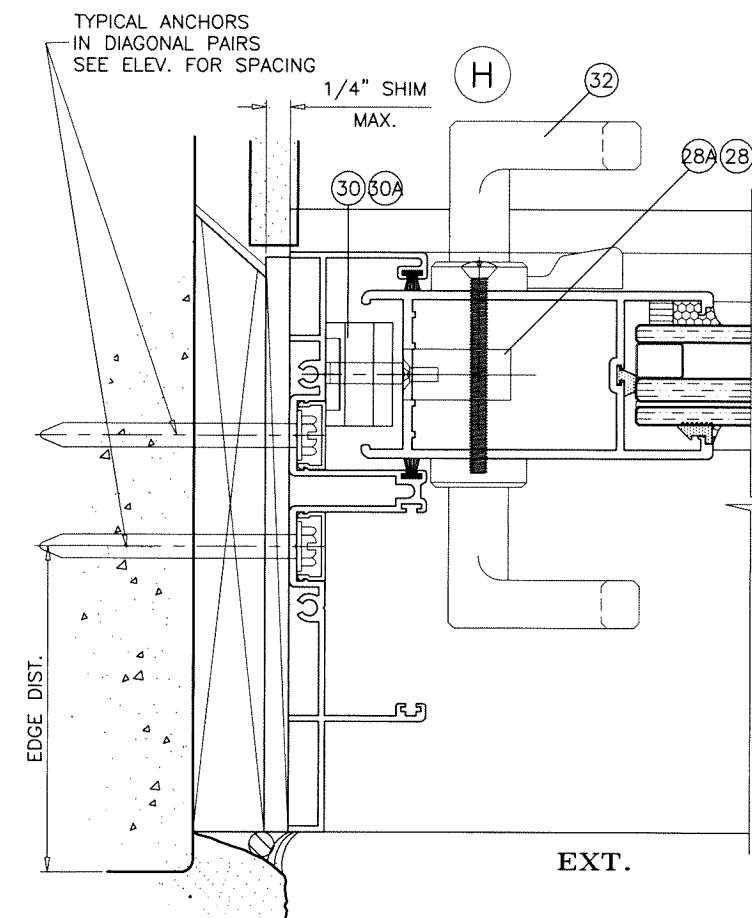
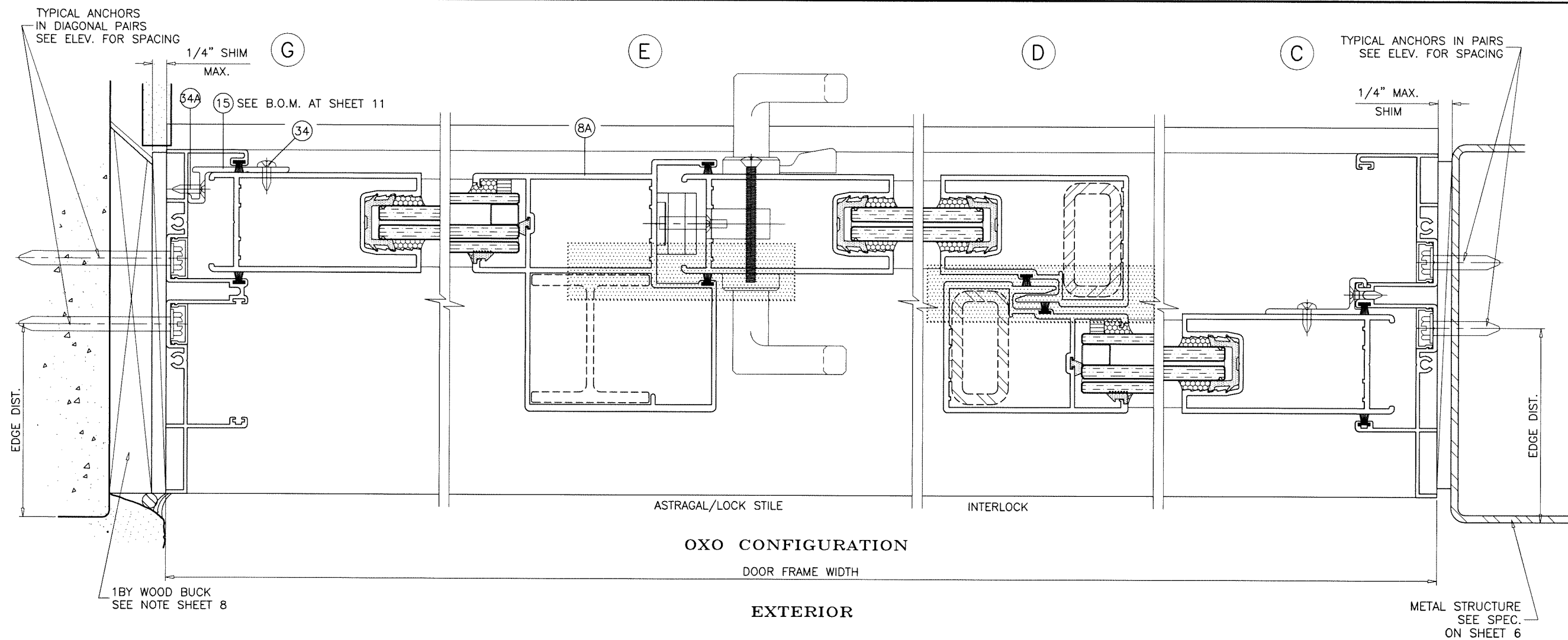
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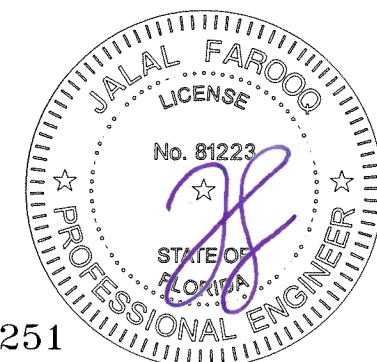
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				sheet 9 of 13



ALUMINUM AND STEEL REINFORCING AT INTERLOCK AND ASTRAGAL/LOCK STILES
SHOWN FOR ILLUSTRATION ONLY.
USE AS SHOWN ON SHEETS 4 & 5.
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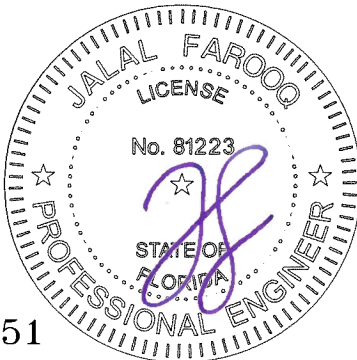
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W17-37
sheet 10 of 13

ITEM #	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	ES-6001	1	FRAME HEAD	6005-T5	-
2	ES-6023	1	FRAME SILL - 3-1/2"	6005-T5	-
3	ES-6003	2	FRAME JAMB	6063-T6	-
3A	ES6030	2	ALTERNATE FRAME JAMB	6063-T6	-
4	ES-6000-040	2/ PANEL	TOP RAIL (LAM. GLASS)	6063-T6	-
4A	ES-6004	2/ PANEL	TOP RAIL (INSUL. LAM. GLASS)	6063-T6	-
5	ES-6000-041	2/ PANEL	BOTTOM RAIL (LAM. GLASS)	6063-T6	-
5A	ES-6005	2/ PANEL	BOTTOM RAIL (INSUL. LAM. GLASS)	6063-T6	-
6	ES-6000-042	AS REQD.	LOCK STILE (LAM. GLASS)	6063-T6	-
6A	ES-6006	AS REQD.	LOCK STILE (INSUL. LAM. GLASS)	6063-T6	-
7	ES-6000-043	AS REQD.	INTERLOCK (LAM. GLASS)	6063-T6	-
7A	ES-6007	AS REQD.	INTERLOCK (INSUL. LAM. GLASS)	6063-T6	-
8	ES-6000-044	AS REQD.	FEMALE ASTRAGAL (LAM. GLASS)	6063-T6	-
8A	ES-6008	AS REQD.	FEMALE ASTRAGAL (INSUL. LAM. GLASS)	6063-T6	-
9	ES-6500-G01A	4/ PANEL	GLAZING GASKET (LAM. GLASS)	SILICONE	DUROMETER 65±5 SHORE A, EXTRUSIONES S.A.
11	ES-6016	4/ PANEL	PANEL GUIDE (TOP ONLY)	CELCON	LOCATED AT PANEL ENDS
12	ES-6015	2/ PANEL	FIXED PANEL BOTTOM CLIP , 7" LONG MIN.	6063-T6	SECURE W/ (2) #8 X 3/4" FH SMS
13	ES-6010	2/ PANEL	RETAINER CLIP, 6" LONG	6005-T5	AT MTG. RAIL HEAD & SILL ENDS
14	ES-6011	2/ JAMB	JAMB SCREW COVER	6063-T5	OPTIONAL
15	ES-6014	AS REQD.	FIXED PANEL CLIP, 4" LONG	6063-T6	AT 20" FROM EACH END AND 27" O.C. MAX.
16	ES-6012	AS REQD.	INTERLOCK STIFFENER (LENGTH = PANEL HT. - 2-3/8")	6063-T6	-
17	ES-6013	AS REQD.	ASTRAGAL STIFFENER (LENGTH = PANEL HT. - 2-3/8")	6063-T6	-
18	1" X 2" X 3/16"	AS REQD.	STEEL TUBE REINFORCING (LENGTH = PANEL HT. - 2-3/8")	A36 STEEL	TO BE PAINTED
21	W222521K	AS REQD.	STILE & JAMB W'STRIPPING	-	ULTRAFAB
22	W223221K	AS REQD.	TOP RAIL PILE W'STRIPPING	-	ULTRAFAB
23	ES-6027	AS REQD.	BOTTOM RAIL W'STRIPPING	EPDM	DUROMETER 75±4 SHORE A
24	#10 X 1-1/2" PH SMS	8/ PANEL	PANEL ASSY SCREWS	-	-
25	#10 X 1" PH SMS	2/ CORNER	FRAME ASSY SCREWS	-	-
26	-	2/ MOV. PANEL	ACETAL WHEELS IN METALLIC HOUSING	-	PANELS WITH LAM. GLASS TO HAVE SINGLE OR DUAL ROLLERS PANELS WITH INSUL. LAM. GLASS TO HAVE DUAL ROLLERS
27	1/4-20 X 1-3/4" PH MS	2/ ROLLER	ROLLER INST. SCREWS	-	-
28	191056	1/ MOV. PANEL	STD. MORTISE LOCK, AT 40" FROM BOTTOM	ST. STEEL	INTERLOCK (ASSA ABLOY)
28A	191014	1/ MOV. PANEL	MULTI POINT MORTISE LOCK, AT 40" FROM BOTTOM	ST. STEEL	INTERLOCK (ASSA ABLOY)
29	#10-24 X 3/8" PH MS	2/ LOCK	LOCK INSTALLATION SCREW	ST. STEEL	-
30	191018	1/ LOCK	LOCK KEEPER (STD. LOCK), AT 48-1/2" FROM BOTTOM	PLATED STEEL	INTERLOCK (ASSA ABLOY)
30A	191040	1/ LOCK	LOCK KEEPER (MULTI POINT LOCK), AT 48-1/2" FROM BOTTOM	ST. STEEL	INTERLOCK (ASSA ABLOY)
31	#10 X 5/8" PH SMS B	2/ LOCK	LOCK KEEPER MOUNT. SCREW (STD. LOCK)	ST. STEEL	-
31A	#8 X 3/4" FH SMS	4/ LOCK	LOCK KEEPER MOUNT. SCREW (MULTI POINT LOCK)	ST. STEEL	-
32	#623Z	1/ LOCK	INTERIOR AND EXTERIOR PULL	-	(3) #6-32 X 1/2" FH MS, ST. STEEL
34	#10 X 3/4" PH SDS	2/ CLIP	FIXED PANEL CLIP FASTENER	ST. STEEL	-
34A	#10 X 3/4" PH SDS	2/ CLIP	FIXED PANEL CLIP FASTENER	ST. STEEL	-
35	-	AS REQD.	1"x4" LONG SELF ADHESIVE PILE PAD	WOOLPILE	AT HEAD AND SILL
37	ES-6019	AS REQD.	RESTRAINING PLATE	NYLON	AT TOP & BOTT. INTERLOCKS & ASTRAGAL
38	#8 X 3/4" FH SMS	2/ PLATE	RESTRAINING PLATE FASTENER	-	-
39	ES-4013	AS REQD.	GLAZING WEDGE	-	-
41	ES-4014	AS REQD.	BOTTOM RAIL GLASS STOP	EPDM	DUROMETER 68±4 SHORE A
42	ES-4018	AS REQD.	TOP RAIL & STILES GLASS STOP	EPDM	DUROMETER 75±4 SHORE A
43	-	AS REQD.	1/4" X 1/4" GLAZING TAPE	FOAM	-
44	-	2/ LITE	SETTING BLOCK, 1" X 1/8" X 2-1/2" LONG	EPDM	DUROMETER 80±5 SHORE A

LATCHES:
LIMIT ITEMS 28 AND 30 FOR USE WITH DOORS WITHOUT REINFORCING OPTION 1.
ITEMS 28A AND 30A CAN BE USED FOR ALL DOORS WITH OR WITHOUT REINFORCINGS.

Sealed: 7/25/2023



FL #22251

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AL-FAROOQ CORPORATION
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9360 SUNSET DRIVE, SUITE 220
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(C.A.N. 3538)

SERIES-6000 ALUM SLIDING GLASS DOOR (L.M.I.)

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3550 N.W. 49 STREET
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revisions:
no date by description

date: 04-06-17

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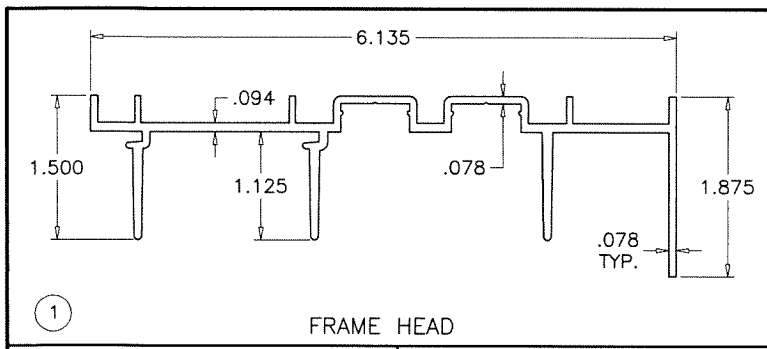
dr. by: TARIQ

chk. by:

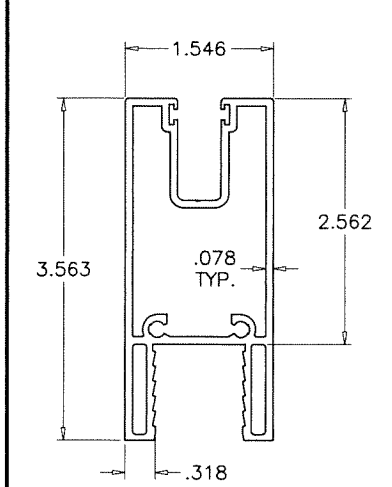
drawing no.

W17-37

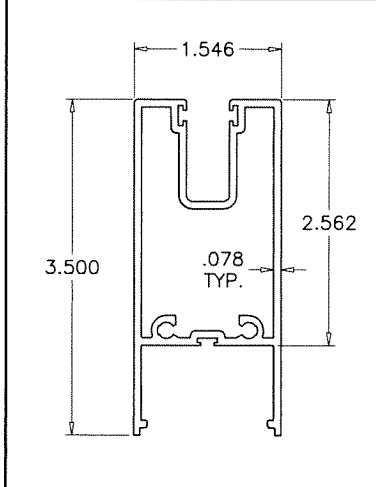
sheet 11 of 13



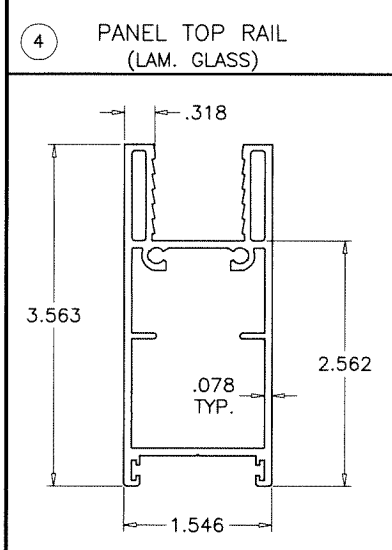
FRAME HEAD



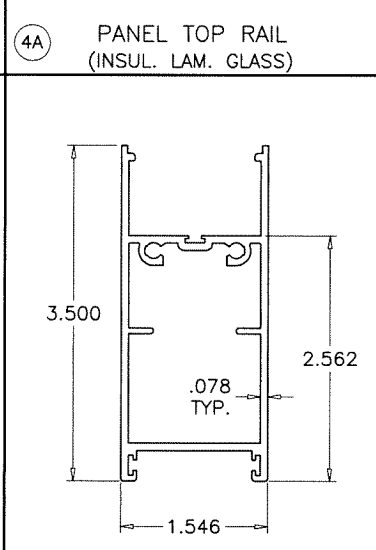
PANEL TOP RAIL
(LAM. GLASS)



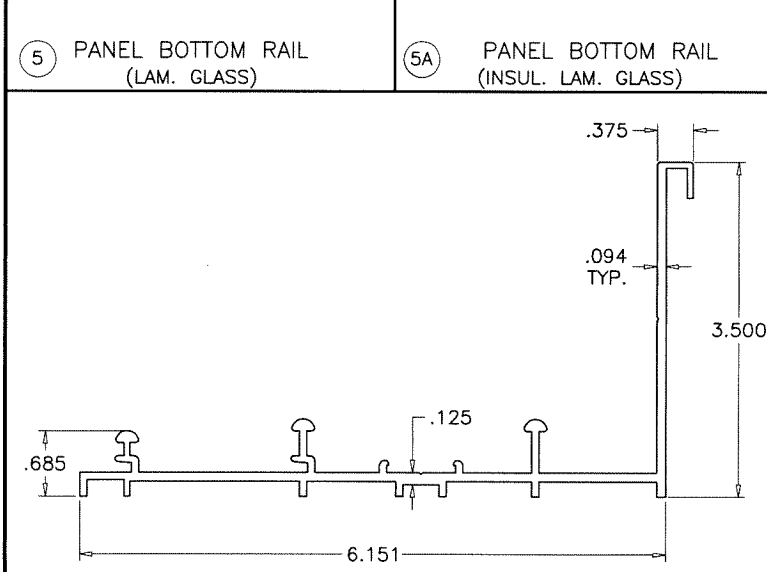
PANEL TOP RAIL
(INSUL. LAM. GLASS)



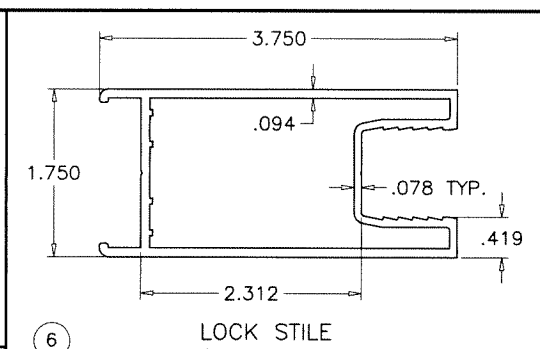
PANEL BOTTOM RAIL
(LAM. GLASS)



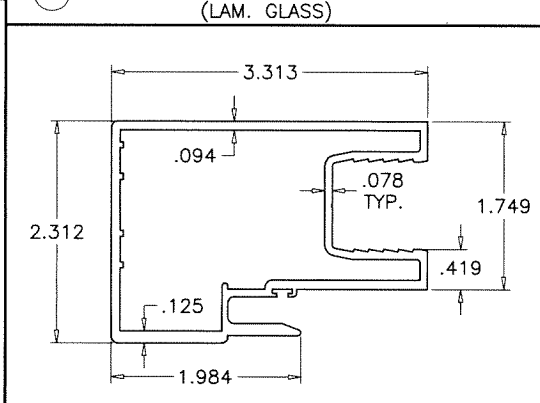
PANEL BOTTOM RAIL
(INSUL. LAM. GLASS)



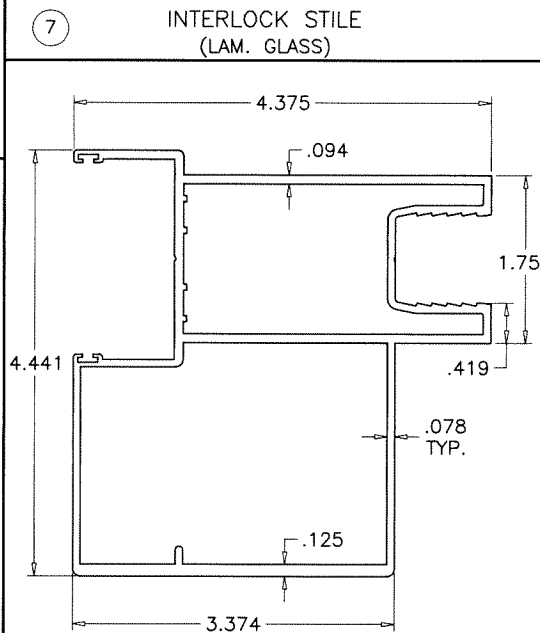
FRAME SILL



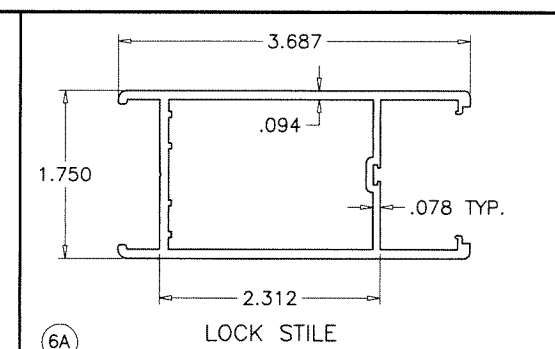
LOCK STILE
(LAM. GLASS)



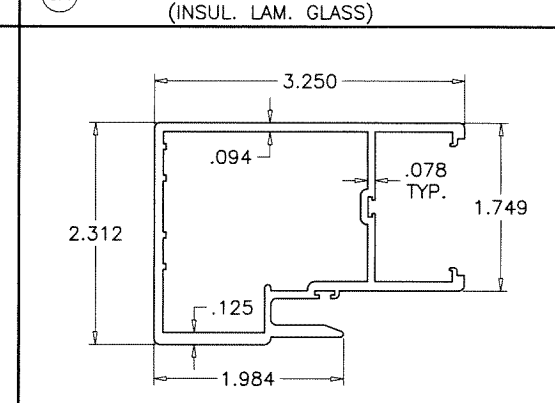
INTERLOCK STILE
(LAM. GLASS)



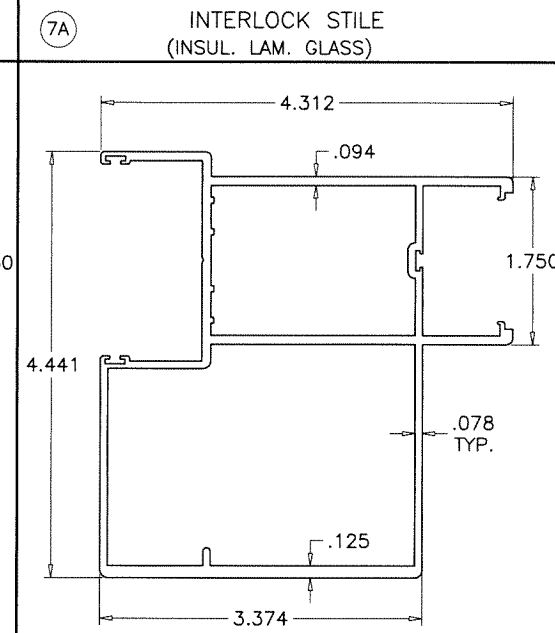
ASTRAGAL STILE
(LAM. GLASS)



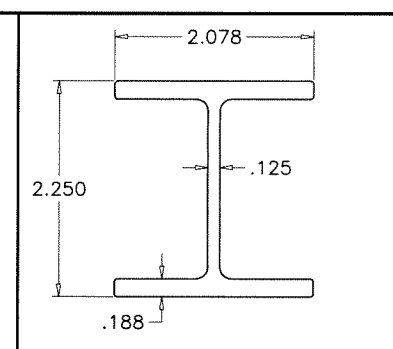
LOCK STILE
(INSUL. LAM. GLASS)



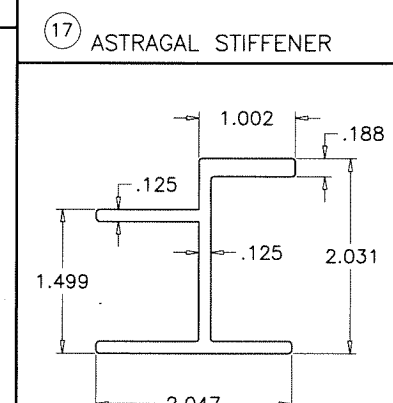
INTERLOCK STILE
(INSUL. LAM. GLASS)



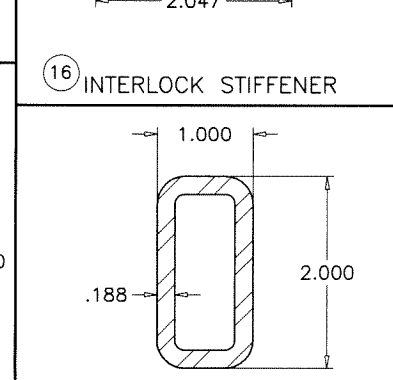
ASTRAGAL STILE
(INSUL. LAM. GLASS)



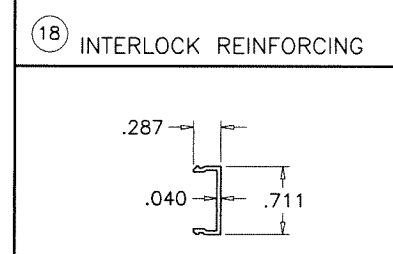
ASTRAGAL STIFFENER



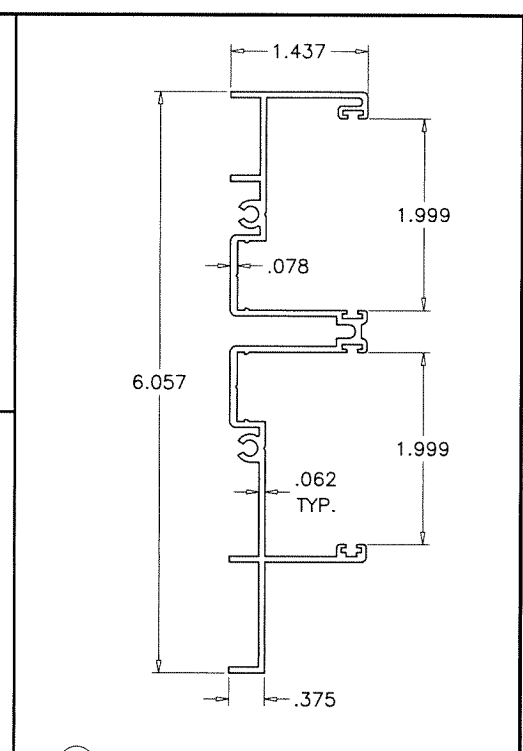
INTERLOCK STIFFENER



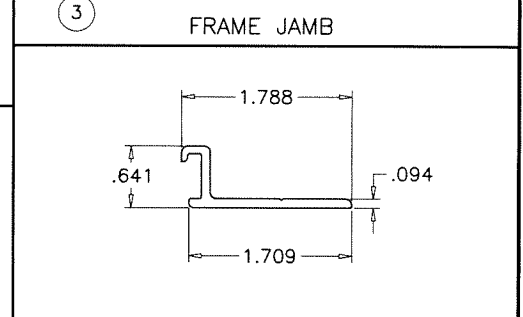
INTERLOCK REINFORCING



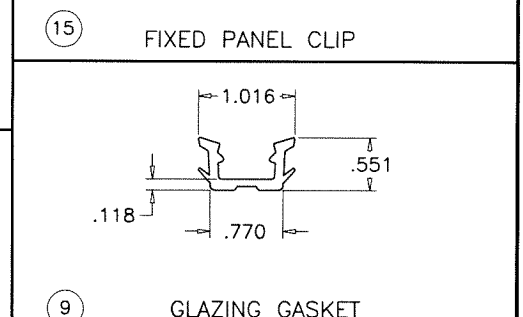
SCREW COVER



FRAME JAMB

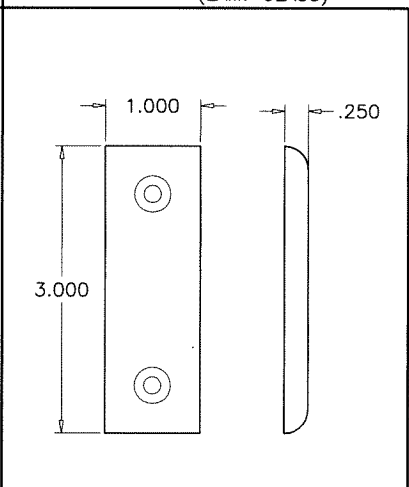


FIXED PANEL CLIP

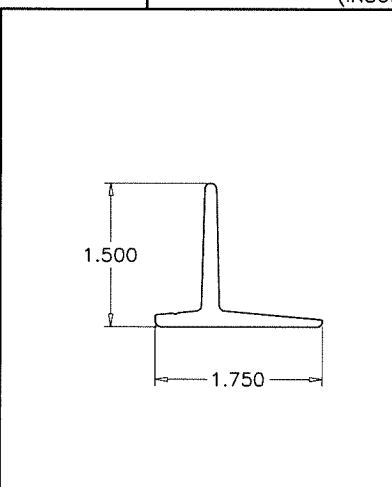


GLAZING GASKET
(LAMINATED GLASS)

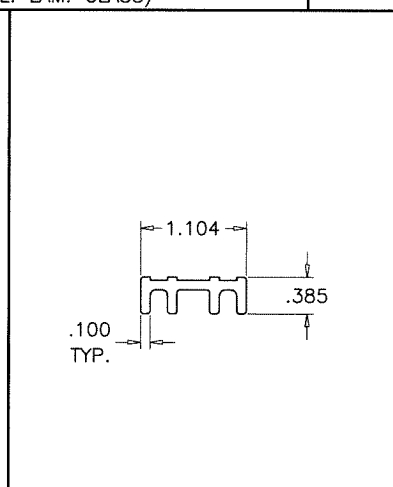
BASE POLYMER = EPDM RUBBER
DENSITY = 10.26 Lbs/Gal
HARDNESS = 70±5
TENSILE STRENGTH = 905 PSI
ELONGATION AT BREAK = 273%
TEAR STRENGTH = 1.343 Kip/ft
BRITTLINESS TEMPERATURE = -40° F
COMPRESSION SET = 27% (22h@158°F)



RESTRAINING PLATE

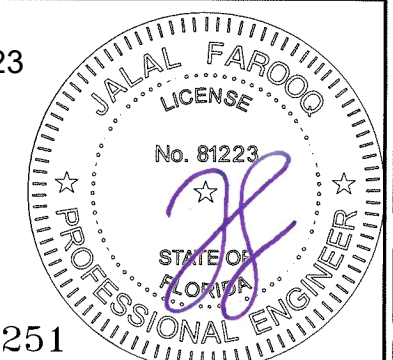


RETAINER CLIP



FIX. PANEL BOTTOM CLIP

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COMP-ANL\W17-37ES

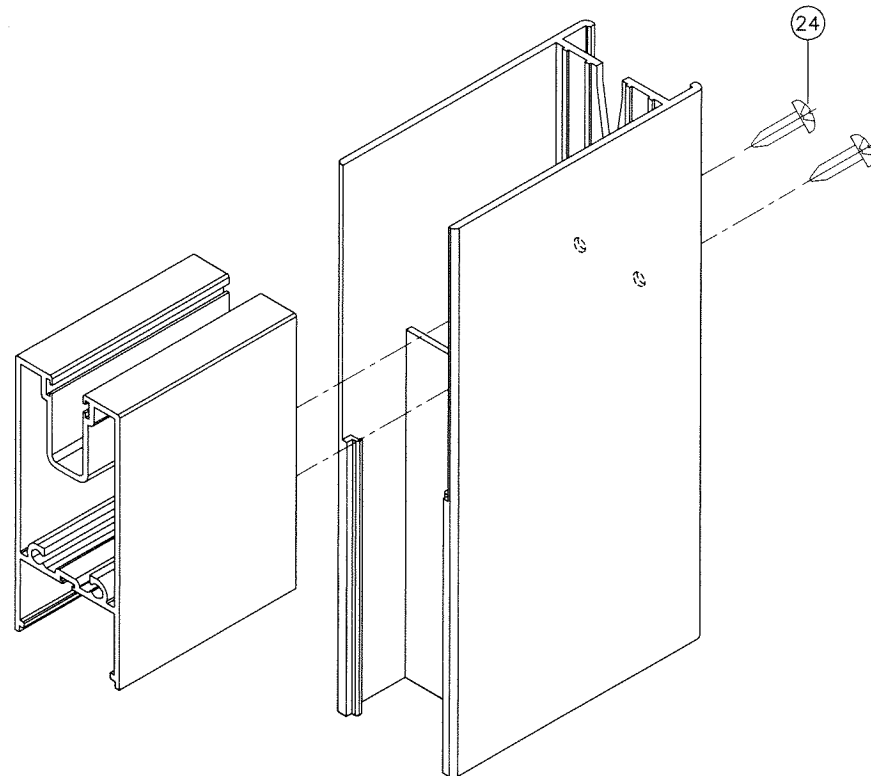
SERIES-6000 ALUM SLIDING GLASS DOOR (L.M.I.)

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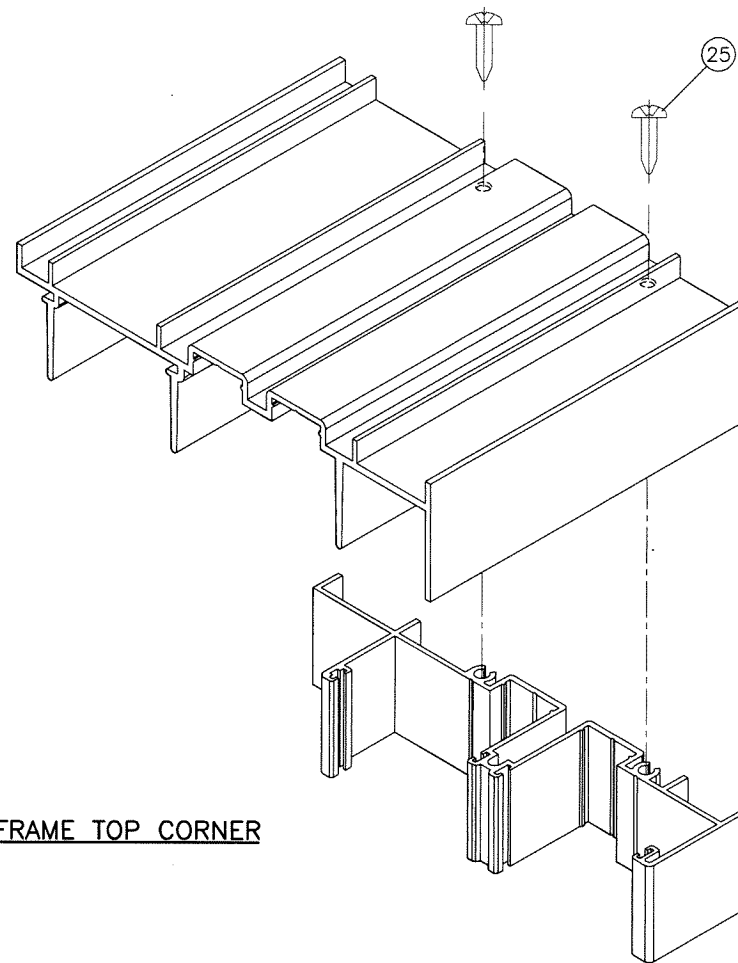
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dr. by: TARIQ
chk. by:

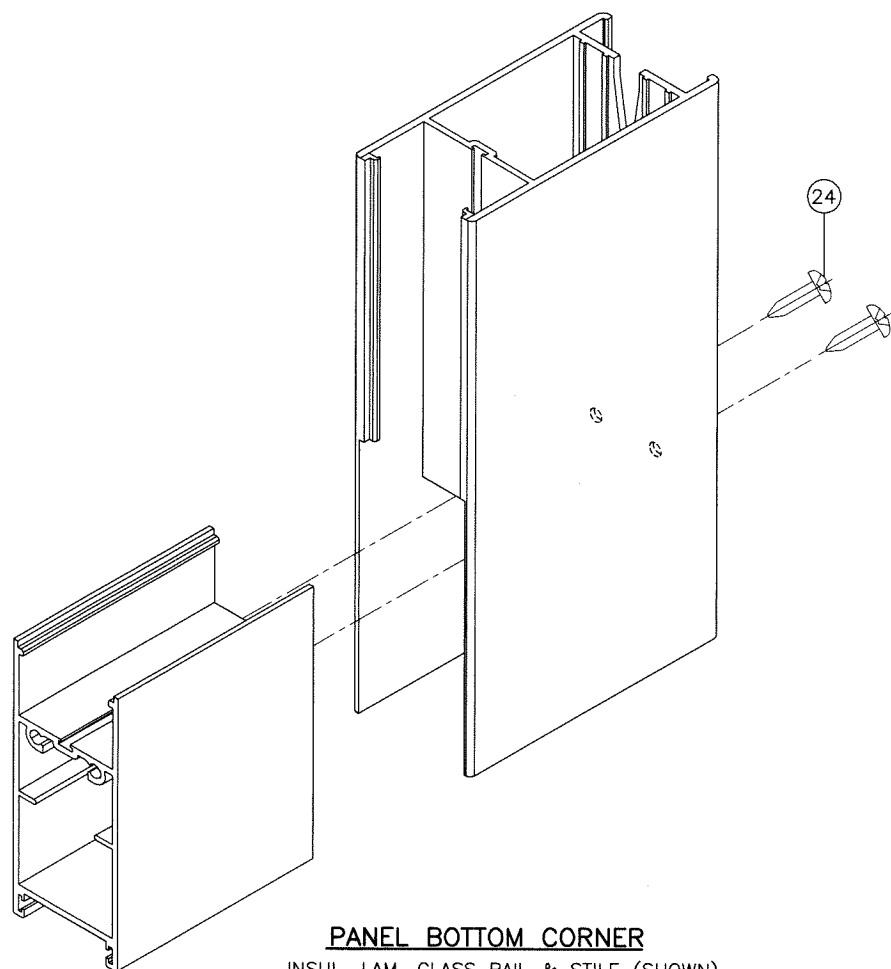
drawing no.
W17-37
sheet 12 of 13



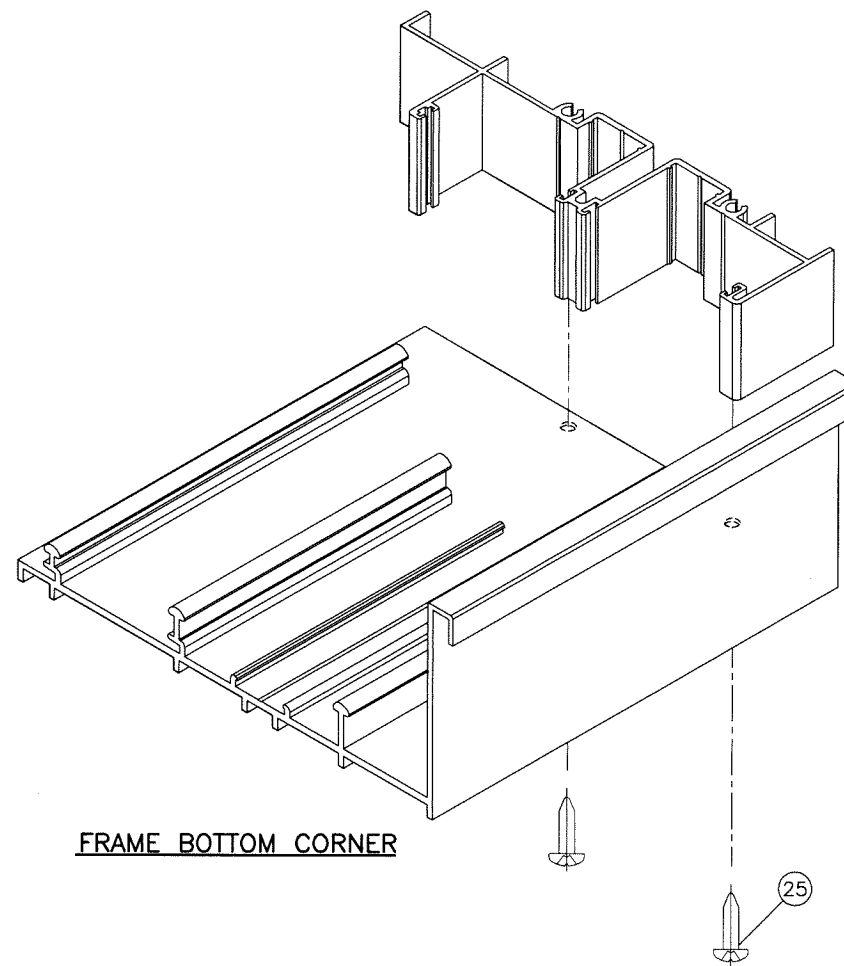
PANEL TOP CORNER
INSUL. LAM. GLASS RAIL & STILE (SHOWN)
LAM. GLASS RAIL & STILE (SIMILAR)



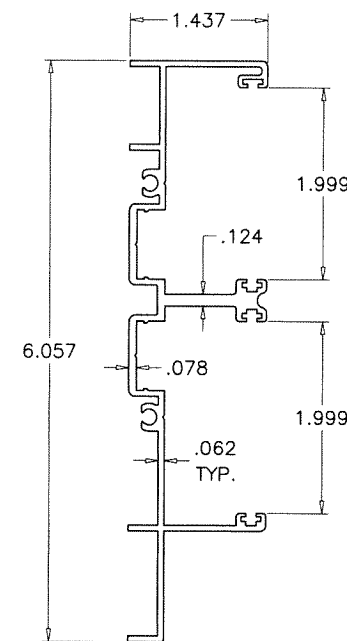
FRAME TOP CORNER



PANEL BOTTOM CORNER
INSUL. LAM. GLASS RAIL & STILE (SHOWN)
LAM. GLASS RAIL & STILE (SIMILAR)

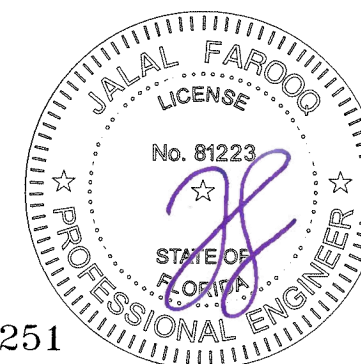


FRAME BOTTOM CORNER



3A ALT. FRAME JAMB

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FL #22251

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