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Product Approval
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OFFICE OF THE SECRETARY

FL #	FL32359-R2								
Application Type	Revision								
Code Version	2023								
Application Status	Approved								
Comments									
Archived	<input type="checkbox"/>								
Product Manufacturer	Sunshine Windows Manufacturing Inc.								
Address/Phone/Email	1745 West 33rd Place Hialeah, FL 33012 (305) 364-9952 Ext 109 noel_m_2001@yahoo.com								
Authorized Signature	Jalal Farooq veronica@afceng.com								
Technical Representative									
Address/Phone/Email									
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 <input type="checkbox"/> 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	02/28/2029								
Validated By	Abel Carrasco, PE <input checked="" type="checkbox"/> Validation Checklist - Hardcopy Received								
Certificate of Independence	FL32359 R2 COI SS - Certificate of Independence 2023.pdf								
Referenced Standard and Year (of Standard)	<table border="0"> <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

10/18/2023

Summary of Products

FL #	Model, Number or Name	Description
32359.1	Series 1600 Aluminum Sliding Glass Door	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: +80/-80 Other: See drawings 20-36F for span vs load combination and installation details.		Installation Instructions FL32359_R2_II_SS - 1600 SGD (LMI) - DWG 20-36F (2023).pdf Verified By: Jalal Farooq PE # 81223 Created by Independent Third Party: Yes Evaluation Reports FL32359_R2_AE_SS - 1600 SGD (LMI) - PAE 2023.pdf Created by Independent Third Party: Yes
32359.2	Series 1600 Aluminum Sliding Glass Door	Non-impact resistant aluminum sliding glass door.
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +90/-135 Other: See drawings 20-30F for span vs load combination and installation details.		Installation Instructions FL32359_R2_II_SS - 1600 SGD (NI) - DWG 20-30F (2023).pdf Verified By: Jalal Farooq PE # 81223 Created by Independent Third Party: Yes Evaluation Reports FL32359_R2_AE_SS - 1600 SGD (NI) - PAE 2023.pdf Created by Independent Third Party: Yes

[Back](#)

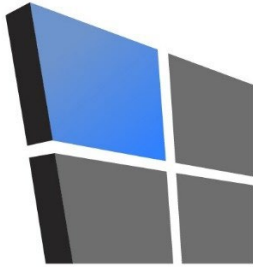
[Next](#)

Contact Us :: [2601 Blair Stone Road, Tallahassee FL 32399](#) Phone: 850-487-1824

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AL-FAROOQ CORPORATION

CONSULTING ENGINEERS & PRODUCT DEVELOPMENT

January 23, 2023

Product Approval Administrator
Building Codes & Standards Section
Department of Business & Professional Regulations
1940 North Monroe Street, Suite 90
Tallahassee, FL 32399-2100

To whom it may concern,

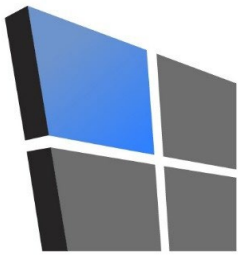
As the design engineer retained to prepare the product approval(s) associated with this letter as shown below on this same web page, I do hereby declare that I do not have and will not have any financial interest in any company manufacturing or distributing the referenced product(s), nor do I have or will have any financial interest with any other entity involved in the approval process of the referenced product(s).

Sincerely,



Jalal Farooq, P.E.
CFO

Sealed: 1/23/2023



AL-FAROOQ CORPORATION

CONSULTING ENGINEERS & PRODUCT DEVELOPMENT

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

FL 32359

Date: 07/28/2023

Detailed Product Description:

Manufacturer: SUNSHINE WINDOWS MANUFACTURING, INC.

Manufacturer Address: 1785 W 33 PLACE, HIALEAH, FL 33012

Model Name: SERIES 1600 ALUMINUM SLIDING GLASS DOOR

Maximum Load: +90 PSF, -135 PSF (Non-Impact)

Installation Drawings # 20-30F

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 <u> X </u> Yes <u> </u> 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	Fenestration Testing Laboratory, Inc.	3/29/2008	FTL-5442	Michael Wenzel, PE
			2/1/2019	FTL-5443 FTL-10476	Idalmis Ortega, PE
ASTM E331 or ASTM 547 & TAS 202	Water Penetration	Fenestration Testing Laboratory, Inc.	1/28/2013	FTL-5442	Michael Wenzel, PE
			2/1/2019	FTL-5443 FTL-10476	Idalmis Ortega, PE
ASTM E330 & TAS 202	Uniform Static Air Pressure	Fenestration Testing Laboratory, Inc.	1/28/2013	FTL-5442	Michael Wenzel, PE
			2/1/2019	FTL-5443 FTL-10476	Idalmis Ortega, PE
ASTM F842	Forced Entry	Fenestration Testing Laboratory, Inc.	1/28/2013	FTL-5442	Michael Wenzel, PE
			2/1/2019	FTL-5443 FTL-10476	Idalmis Ortega, 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: 7/28/2023

DESIGN LOAD CAPACITY - PSF TWO (2) TRACK DOORS													
		3/16" TEMP. GLASS											
AVERAGE PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	ANCHORS TYPE 'A'				ANCHORS TYPE 'B'				ANCHORS TYPE 'C'			
		4 ANCHORS AT STILE ENDS		6 ANCHORS AT STILE ENDS		4 ANCHORS AT STILE ENDS		6 ANCHORS AT STILE ENDS		4 ANCHORS AT STILE ENDS		6 ANCHORS AT STILE ENDS	
		EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
30	82	80.0	105.0	80.0	120.0	80.0	108.0	80.0	120.0	80.0	120.0	80.0	120.0
36		80.0	92.0	80.0	120.0	80.0	95.0	80.0	120.0	80.0	107.0	80.0	120.0
42		80.0	82.0	80.0	107.9	85.0	85.0	80.0	107.9	80.0	96.0	80.0	107.9
48		76.0	76.0	80.0	99.3	78.0	78.0	80.0	99.3	80.0	88.0	80.0	99.3
54		71.0	71.0	80.0	93.1	73.0	73.0	80.0	93.1	80.0	83.0	80.0	93.1
30	84	80.0	102.0	80.0	120.0	80.0	105.0	80.0	120.0	80.0	119.0	80.0	120.0
36		80.0	89.0	80.0	116.4	80.0	92.0	80.0	116.4	80.0	103.0	80.0	116.4
42		80.0	80.0	80.0	104.5	80.0	82.0	80.0	104.5	80.0	93.0	80.0	104.5
48		73.0	73.0	80.0	96.0	76.0	76.0	80.0	96.0	80.0	85.0	80.0	96.0
54		68.0	68.0	80.0	89.8	71.0	71.0	80.0	89.8	80.0	80.0	80.0	89.8
30	90	80.0	94.0	80.0	120.0	80.0	97.0	80.0	120.0	80.0	109.0	80.0	120.0
36		80.0	81.0	80.0	106.7	80.0	84.0	80.0	106.7	80.0	95.0	80.0	106.7
42		73.0	73.0	80.0	95.4	75.0	75.0	80.0	95.4	80.0	85.0	80.0	95.4
48		67.0	67.0	80.0	87.3	69.0	69.0	80.0	87.3	77.0	77.0	80.0	87.3
30		96	80.0	87.0	80.0	113.8	80.0	90.0	80.0	113.8	80.0	101.0	80.0
36	75.0		75.0	80.0	98.5	78.0	78.0	80.0	98.5	80.0	87.0	80.0	98.5
42	67.0		67.0	80.0	87.8	69.0	69.0	80.0	87.8	78.0	78.0	80.0	87.8
48	61.0		61.0	80.0	80.0	63.0	63.0	80.0	80.0	71.0	71.0	80.0	80.0

ALL EXTERIOR(+) LOADS SHOWN IN CHARTS ABOVE ARE FOR DOORS WITH 3" SILL HEIGHTS. FOR 2" SILL HEIGHT LIMIT MAX. EXT.(+) LOADS TO 62.0 PSF SEE SHEET 7 FOR DETAILS

DESIGN LOAD CAPACITY - PSF TWO (2) TRACK DOORS													
		1/4" TEMP. GLASS											
AVERAGE PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	ANCHORS TYPE 'A'				ANCHORS TYPE 'B'				ANCHORS TYPE 'C'			
		4 ANCHORS AT STILE ENDS		6 ANCHORS AT STILE ENDS		4 ANCHORS AT STILE ENDS		6 ANCHORS AT STILE ENDS		4 ANCHORS AT STILE ENDS		6 ANCHORS AT STILE ENDS	
		EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
30	82	90.0	105.0	90.0	135.0	90.0	108.0	90.0	135.0	90.0	122.0	90.0	135.0
36		90.0	92.0	90.0	135.0	90.0	95.0	90.0	135.0	90.0	107.0	90.0	135.0
42		82.0	82.0	90.0	121.4	85.0	85.0	90.0	121.4	90.0	96.0	90.0	121.4
48		76.0	76.0	90.0	111.7	78.0	78.0	90.0	111.7	88.0	88.0	90.0	111.7
54		71.0	71.0	90.0	104.7	73.0	73.0	90.0	104.7	83.0	83.0	90.0	104.7
30	84	90.0	102.0	90.0	135.0	90.0	105.0	90.0	135.0	90.0	119.0	90.0	135.0
36		89.0	89.0	90.0	130.9	90.0	92.0	90.0	130.9	90.0	103.0	90.0	130.9
42		80.0	80.0	90.0	117.6	82.0	82.0	90.0	117.6	90.0	93.0	90.0	117.6
48		73.0	73.0	90.0	108.0	76.0	76.0	90.0	108.0	85.0	85.0	90.0	108.0
54		68.0	68.0	90.0	101.1	71.0	71.0	90.0	101.1	80.0	80.0	90.0	101.1
30	90	90.0	94.0	90.0	135.0	90.0	97.0	90.0	135.0	90.0	109.0	90.0	135.0
36		81.0	81.0	90.0	120.0	84.0	84.0	90.0	120.0	90.0	95.0	90.0	120.0
42		73.0	73.0	90.0	107.3	75.0	75.0	90.0	107.3	85.0	85.0	90.0	107.3
48		67.0	67.0	90.0	98.2	69.0	69.0	90.0	98.2	77.0	77.0	90.0	98.2
30		96	87.0	87.0	90.0	128.0	90.0	90.0	90.0	128.0	90.0	101.0	90.0
36	75.0		75.0	90.0	110.8	78.0	78.0	90.0	110.8	87.0	87.0	90.0	110.8
42	67.0		67.0	90.0	98.7	69.0	69.0	90.0	98.7	78.0	78.0	90.0	98.7
48	61.0		61.0	90.0	90.0	63.0	63.0	90.0	90.0	71.0	71.0	90.0	90.0

ALL EXTERIOR(+) LOADS SHOWN IN CHARTS ABOVE ARE FOR DOORS WITH 3" SILL HEIGHTS. FOR 2" SILL HEIGHT LIMIT MAX. EXT.(+) LOADS TO 62.0 PSF SEE SHEET 7 FOR DETAILS

DOOR HEIGHT AND WIDTH SIZE MUST COMPLY EGRESS REQUIREMENTS PER FBC AS REQUIRED.

$$\text{AVERAGE PANEL WIDTH} = \frac{\text{DOOR FRAME WIDTH}}{\text{NUMBER OF PANELS}}$$

SERIES-1600

ALUMINUM SLIDING GLASS DOOR

DESIGN LOAD RATING FOR THESE DOORS TO BE AS PER CHARTS SHOWN ON SHEETS 1 & 2.

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.

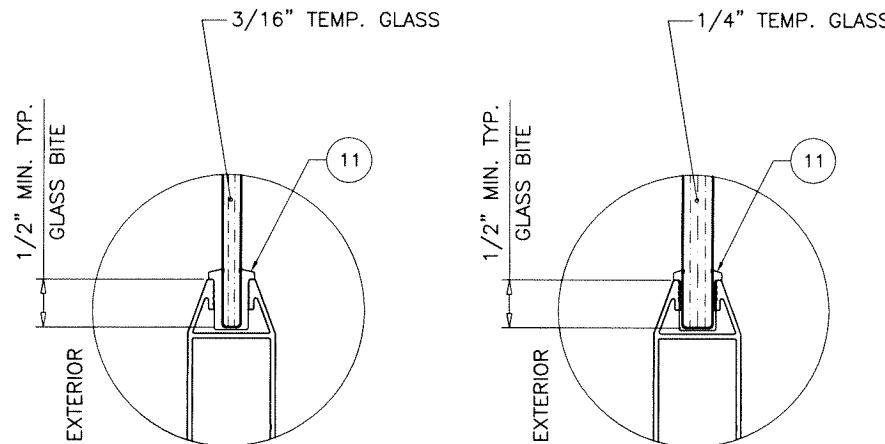
MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2020/2023 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

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.



GLAZING OPTIONS

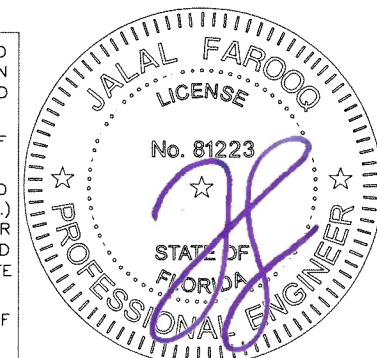
NOTE: GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300-09 (3 SEC. GUSTS) AND FLORIDA BUILDING COMMISSION DECLARATORY STATEMENT DCA05-DEC-219

THESE DOORS ARE NOT RATED FOR IMPACT. INSTALLATION OF THIS PRODUCT IN THE HVHZ AREA REQUIRES THE USE OF APPROVED SHUTTERS OR EXTERNAL PROTECTION DEVICES COMPLYING WITH HVHZ REQUIREMENTS. INSTALLATION OF THIS SYSTEM OUTSIDE THE HVHZ AREA MUST MEET THE APPLICABLE REQUIREMENTS FOR WIND BORNE DEBRIS PROTECTION.

**MONOLITHIC GLASS
NON IMPACT**

Sealed: 7/26/2023

FL #32359



- 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.

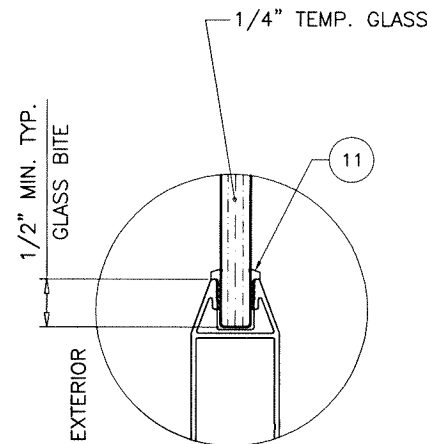
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL: (305) 264-8100 FAX: (305) 262-6978
C.A.N. 3538
COMP-ANL\20-30F-SWM

SERIES-1600 ALUM SLIDING GLASS DOOR (N.I.)
Sunshine Windows Manufacturing, Inc.
1785 West 33rd Place
Hialeah, FL. 33012
Tel. (305) 364-9952 Fax. (305) 828-5118

revisions:	no.	date	description
	A	08.27.20	UPDATED TO 2020 FBC
	B	07.21.23	UPDATED TO 2023 FBC
date:	03-16-20	scale:	1/2" = 1"
dr. by:	TARIO	chk. by:	
drawing no.	20-30F		
sheet	1 of 14		

DESIGN LOAD CAPACITY - PSF THREE (3) TRACK DOORS 'XXX' CONFIGURATIONS ONLY							
AVERAGE PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	1/4" TEMP. GLASS					
		ANCHORS 'A'		ANCHORS 'B'		ANCHORS 'C'	
		4 ANCHORS AT STILE ENDS		4 ANCHORS AT STILE ENDS		4 ANCHORS AT STILE ENDS	
		EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
30	82	40.0	67.5	40.0	67.5	40.0	67.5
36		40.0	67.5	40.0	67.5	40.0	67.5
42		40.0	60.7	40.0	60.7	40.0	60.7
48		40.0	55.9	40.0	55.9	40.0	55.9
54		40.0	52.4	40.0	52.4	40.0	52.4
30	84	40.0	67.5	40.0	67.5	40.0	67.5
36		40.0	65.5	40.0	65.5	40.0	65.5
42		40.0	58.8	40.0	58.8	40.0	58.8
48		40.0	54.0	40.0	54.0	40.0	54.0
54		40.0	50.5	40.0	50.5	40.0	50.5
30	90	40.0	67.5	40.0	67.5	40.0	67.5
36		40.0	60.0	40.0	60.0	40.0	60.0
42		40.0	53.7	40.0	53.7	40.0	53.7
48		40.0	49.1	40.0	49.1	40.0	49.1
30	96	40.0	64.0	40.0	64.0	40.0	64.0
36		40.0	55.4	40.0	55.4	40.0	55.4
42		40.0	49.4	40.0	49.4	40.0	49.4
48		40.0	45.0	40.0	45.0	40.0	45.0

DOORS WITH 2" SILL HEIGHTS
APPROVED FOR WATER INFILTRATION RESISTANCE.
THESE DOORS REQUIRE RETAINER PLATES ITEM # (20)
AT TOP AND BOTTOM INTERLOCKS



GLAZING OPTION

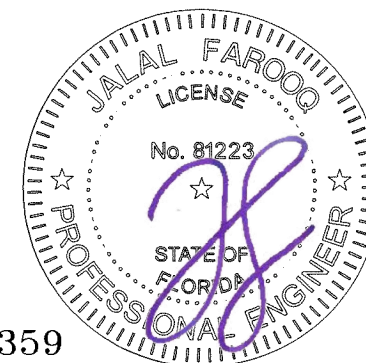
NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-09 (3 SEC. GUSTS)
AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCA05-DEC-219

DESIGN LOAD CAPACITY - PSF THREE (3) TRACK DOORS 'XOO' & 'OOX' CONFIGURATIONS ONLY											
AVERAGE PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	1/4" TEMP. GLASS									
		ANCHORS TYPE 'A'				ANCHORS TYPE 'B'				ANCHORS 'C'	
		4 ANCHORS AT STILE ENDS		6 ANCHORS AT STILE ENDS		4 ANCHORS AT STILE ENDS		6 ANCHORS AT STILE ENDS		4 ANCHORS AT STILE ENDS	
		EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
30	82	60.0	97.5	60.0	97.5	60.0	97.5	60.0	97.5	60.0	97.5
36		60.0	92.0	60.0	97.5	60.0	95.0	60.0	97.5	60.0	97.5
42		60.0	82.0	60.0	87.7	60.0	85.0	60.0	87.7	60.0	87.7
48		60.0	76.0	60.0	80.7	60.0	78.0	60.0	80.7	60.0	80.7
54		60.0	71.0	60.0	75.6	60.0	73.0	60.0	75.6	60.0	75.6
30	84	60.0	97.5	60.0	97.5	60.0	97.5	60.0	97.5	60.0	97.5
36		60.0	89.0	60.0	94.5	60.0	92.0	60.0	94.5	60.0	94.5
42		60.0	80.0	60.0	84.9	60.0	82.0	60.0	84.9	60.0	84.9
48		60.0	73.0	60.0	78.0	60.0	76.0	60.0	78.0	60.0	78.0
54		60.0	68.0	60.0	73.0	60.0	71.0	60.0	73.0	60.0	73.0
30	90	60.0	94.0	60.0	97.5	60.0	97.0	60.0	97.5	60.0	97.5
36		60.0	81.0	60.0	86.7	60.0	84.0	60.0	86.7	60.0	86.7
42		60.0	73.0	60.0	77.5	60.0	75.0	60.0	77.5	60.0	77.5
48		60.0	67.0	60.0	70.9	60.0	69.0	60.0	70.9	60.0	70.9
30	96	60.0	87.0	60.0	92.4	60.0	90.0	60.0	92.4	60.0	92.4
36		60.0	75.0	60.0	80.0	60.0	78.0	60.0	80.0	60.0	80.0
42		60.0	67.0	60.0	71.3	60.0	69.0	60.0	71.3	60.0	71.3
48		60.0	61.0	60.0	65.0	60.0	63.0	60.0	65.0	60.0	65.0

DOORS WITH 2" SILL HEIGHTS
LOADS SHOWN ABOVE ARE FOR DOOR INSTALLATIONS
WHERE WATER INFILTRATION RESISTANCE IS NOT REQUIRED.
FOR INSTALLATIONS WHERE WATER INFILTRATION RESISTANCE
IS REQUIRED LIMIT MAX. EXTERIOR LOADS TO +40.0 PSF.

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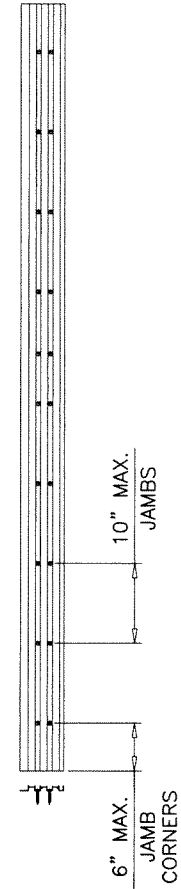
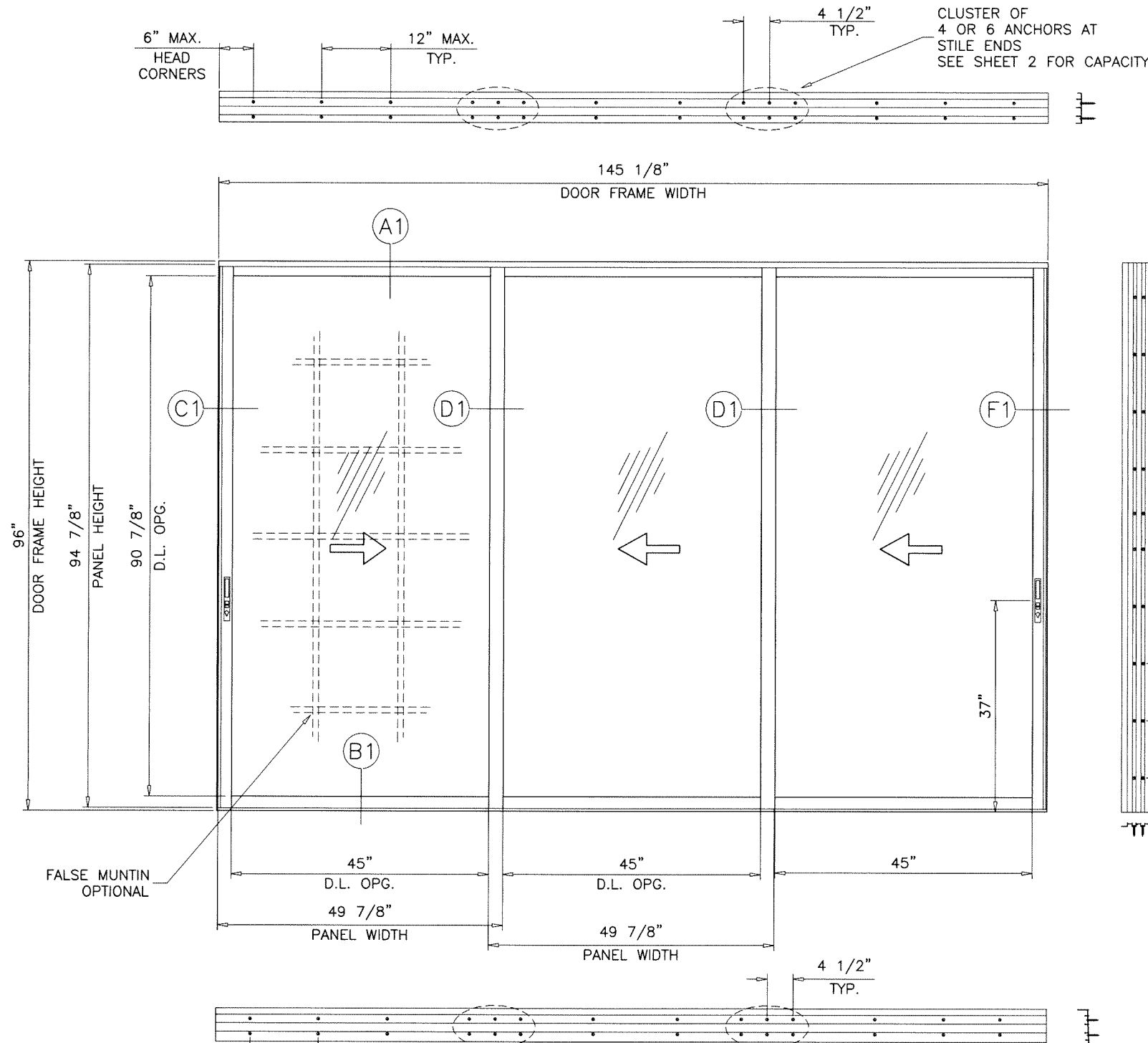
FL #32359



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AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220 (C.A.N. 3538)
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\20-30F-SWM

SERIES-1600 ALUM SLIDING GLASS DOOR (N.I.)
Sunshine Windows Manufacturing, Inc.
1785 West 33rd Place
Hialeah, FL. 33012
Tel. (305) 364-9952 Fax. (305) 828-5118

revisions:	no	date	by	description
date:	03-16-20			
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dr. by:	TARIQ			
chk. by:				
drawing no.	20-30F			
sheet	2 of 14			



TYPICAL ELEVATION
 XXX (TESTED UNIT)
 THREE (3) TRACKS

DAYLITE OPENINGS WIDTHS:
 PANEL WIDTH - 7.125"
 DAYLITE OPENING HEIGHT:
 PANEL HEIGHT - 6.50"
 PANEL HEIGHT = DOOR FRAME HEIGHT - 1.5625"

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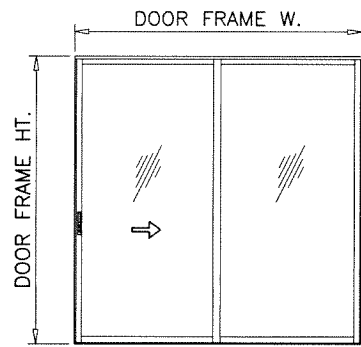


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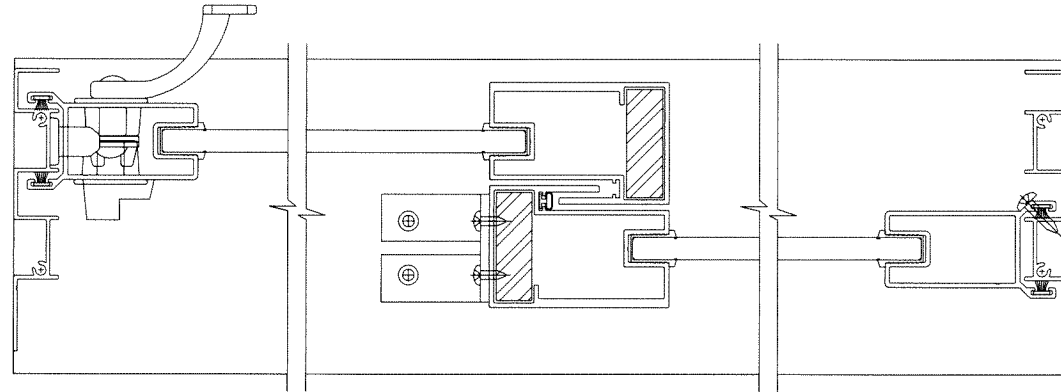
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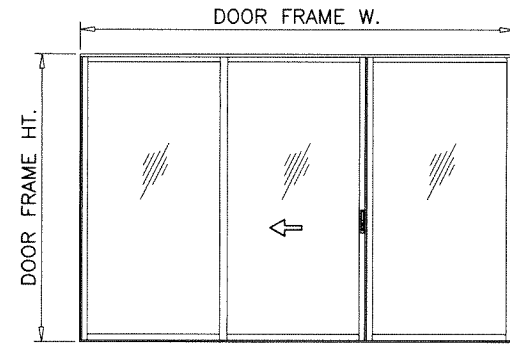
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drawing no. 20-30F			
sheet 4 of 14			



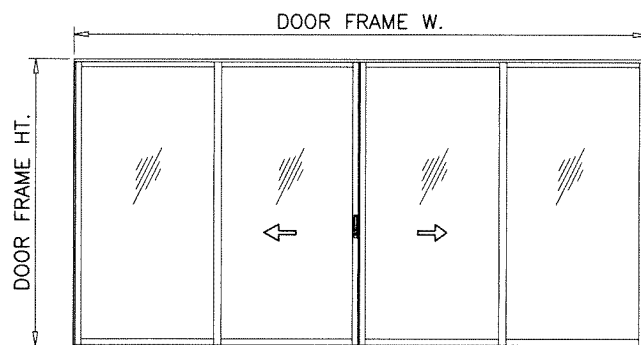
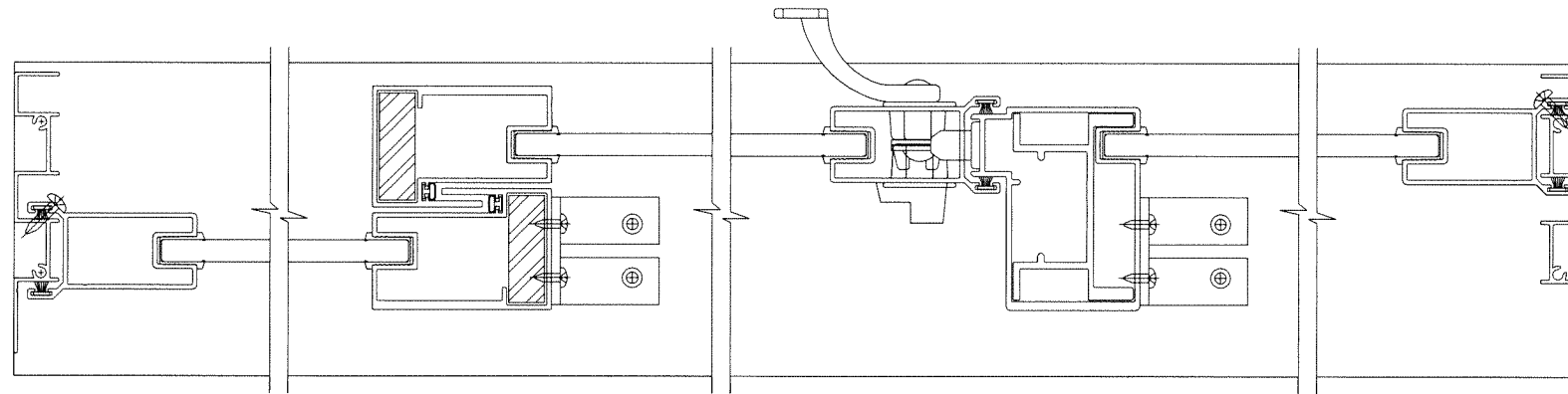
XO (SHOWN)
OX



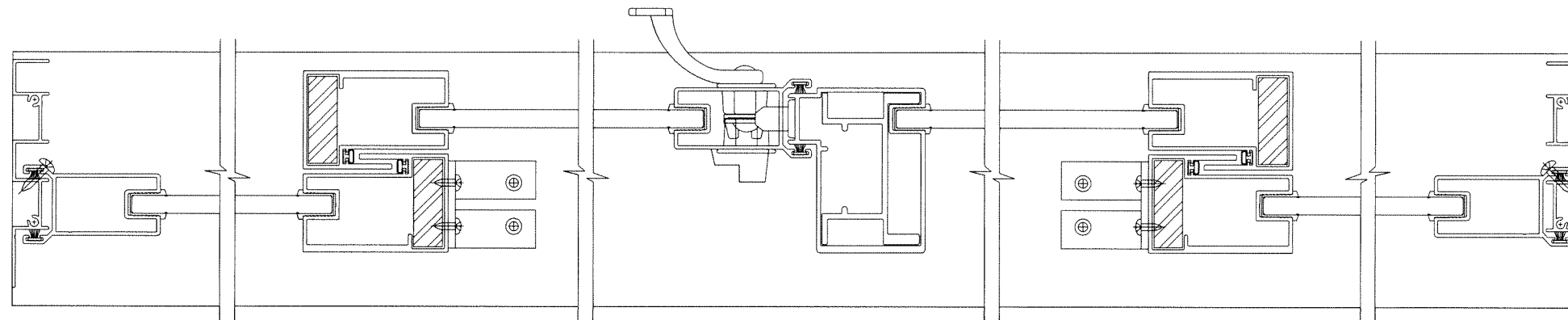
NOTE:
 1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
 2. FOR APPLICABLE DESIGN PRESSURES AND REINFORCING OPTIONS SEE SHEET 1.
 3. FOR ANCHOR DETAILS SEE SHEETS 7 THRU 9.



OX-O (SHOWN)



OX-XO (SHOWN)



APPROVED CONFIGURATIONS
TWO (2) TRACKS

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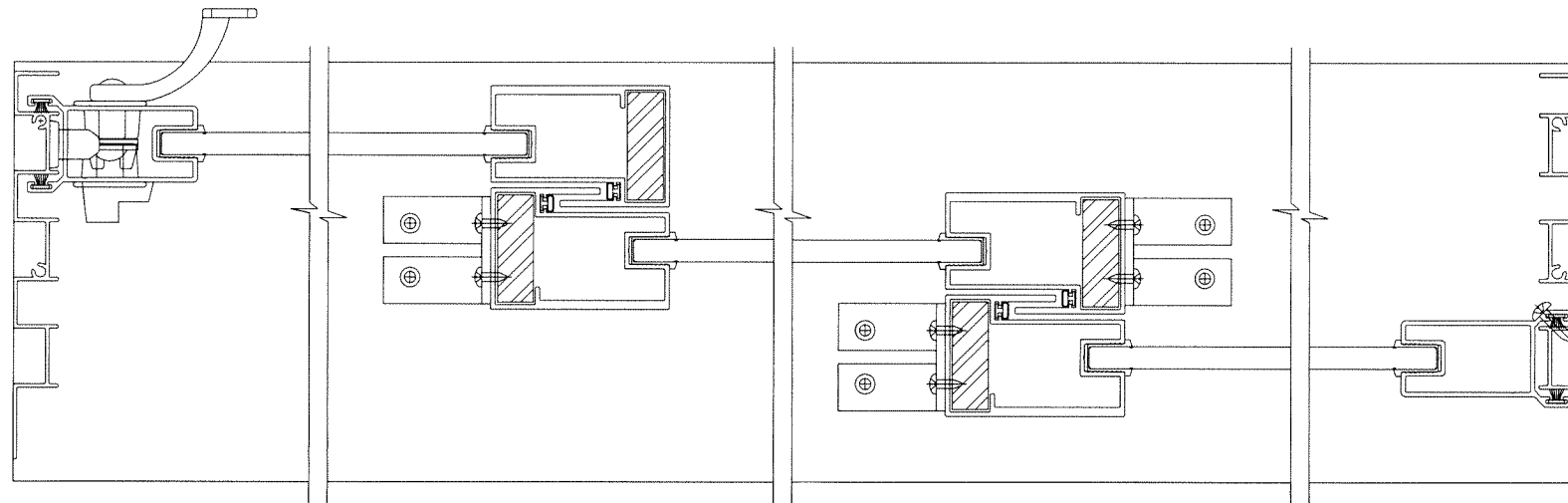
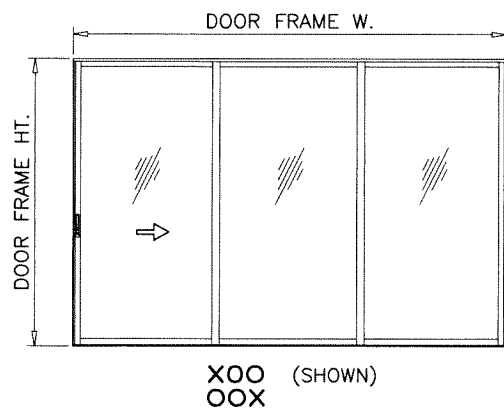
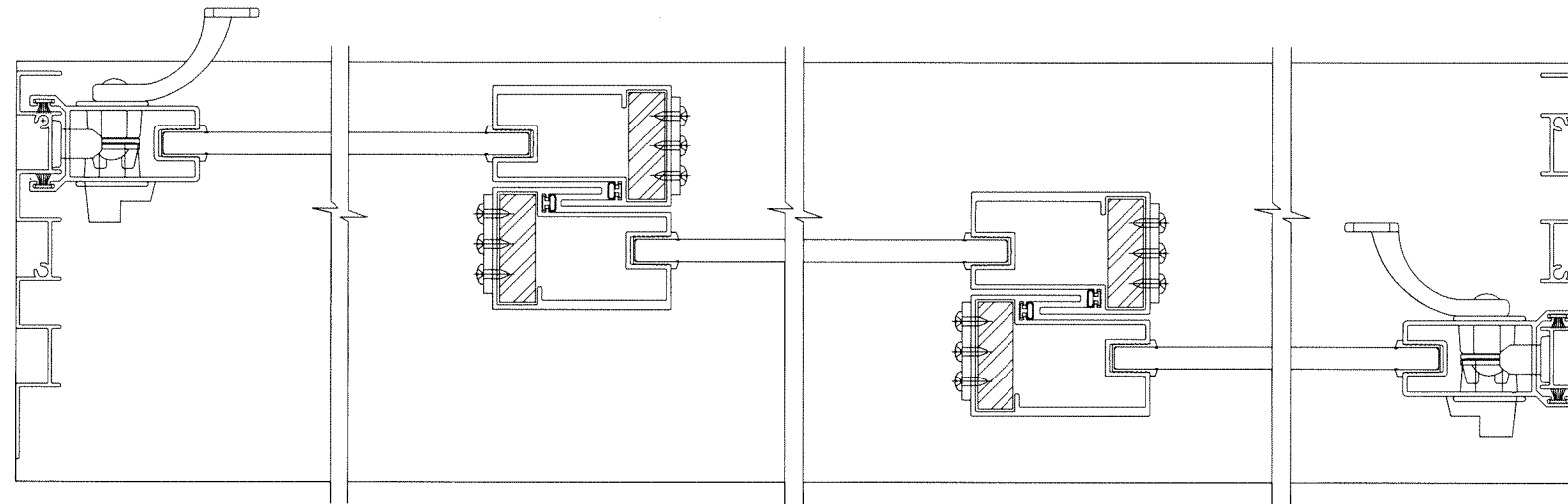
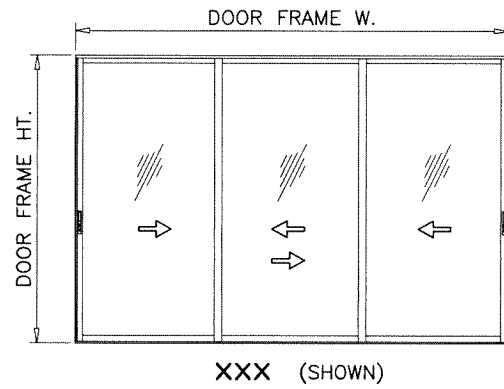


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sheet 5 of 14			

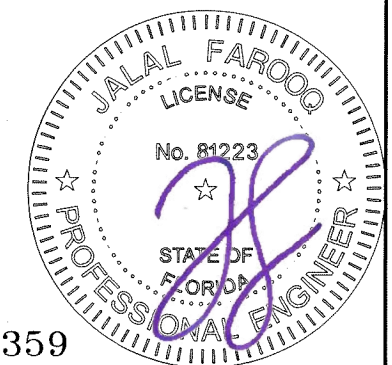


- NOTE:
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 2. FOR APPLICABLE DESIGN PRESSURES AND REINFORCING OPTIONS SEE SHEET 2.
 3. FOR ANCHOR DETAILS SEE SHEETS 10 & 11.

**APPROVED CONFIGURATIONS
THREE (3) TRACKS**

Sealed: 7/26/2023

FL #32359

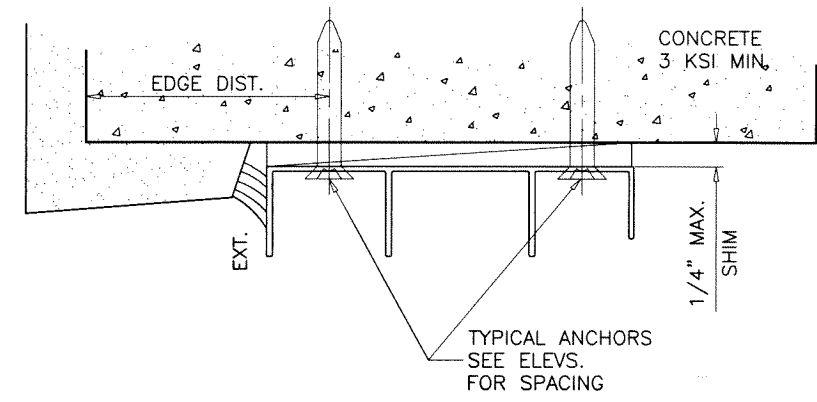
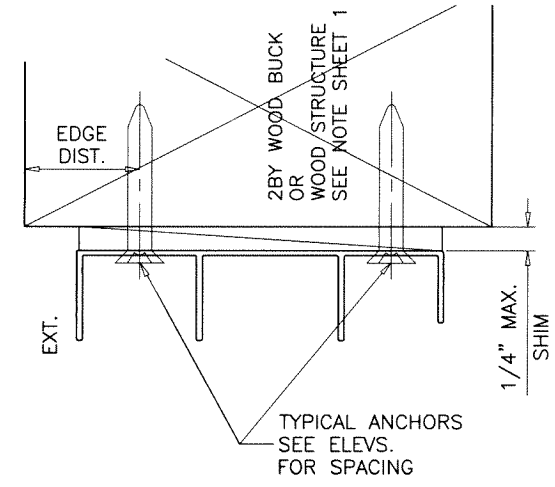
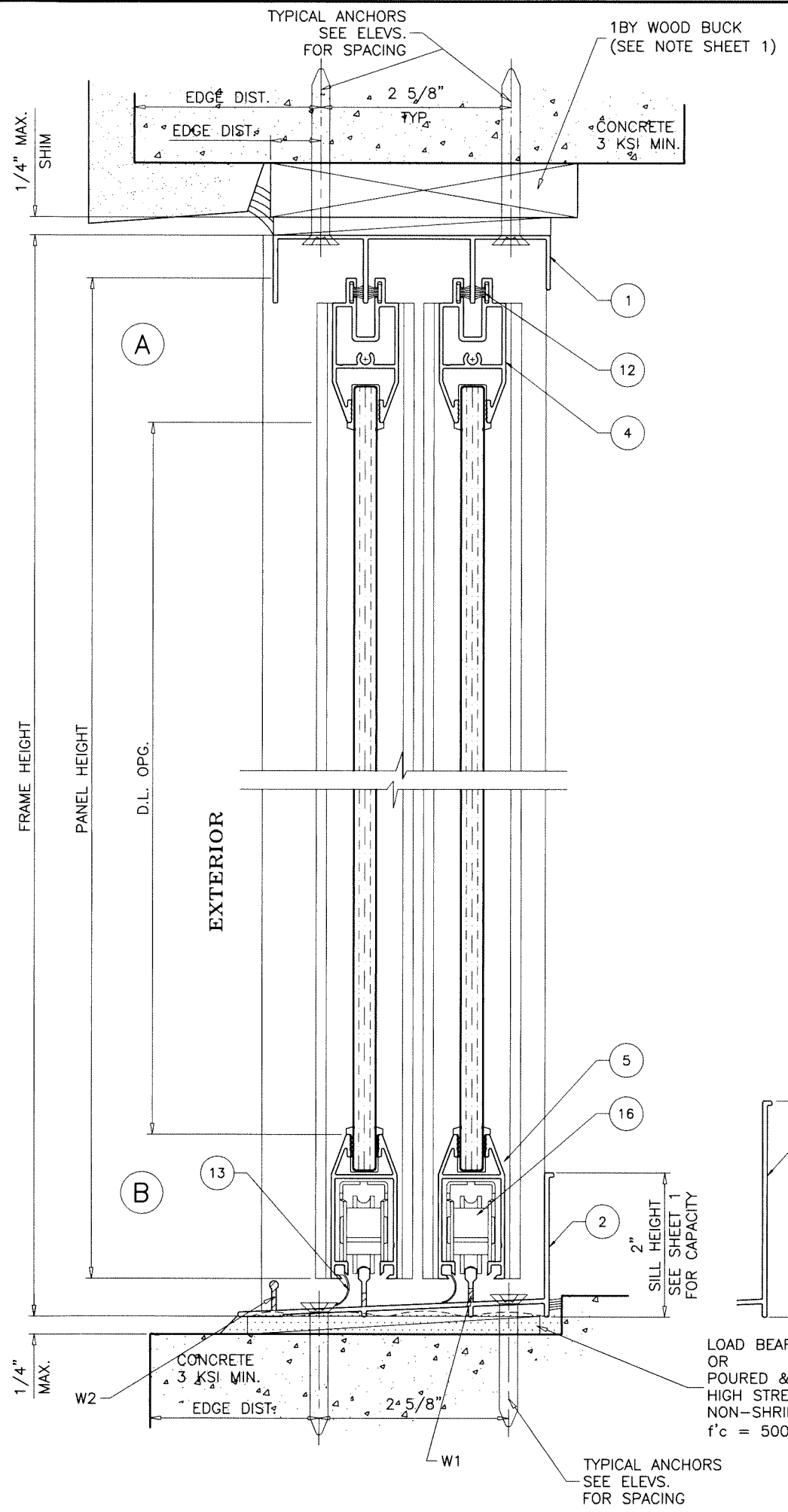


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20-30F
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WEEPHOLES:

- W1 = 3/16" X 1" LONG WEEP HOLES AT EACH END OF TRACK
- W2 = 2" LONG NOTCH AT EACH END OF TRACK

2 TRACK DOORS



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chk. by:

drawing no. **20-30F**
sheet 7 of 14

1BY OR 2BY WOOD BUCKS AND METAL STRUCTURE NOT BY 'SUNSHINE WDW,' MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

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
 1-1/4" MIN. EMBED INTO CONCRETE

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

TYPE 'C' - 1/4" DIA. TEKS OR SELF-DRILLING SCREWS (GRADE 5 CRS)
 INTO F.B.C. APPROVED MULLIONS
 AND
 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
 1-1/4" MIN. EMBED INTO CONCRETE

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 CONCRETE OR BLOCKS

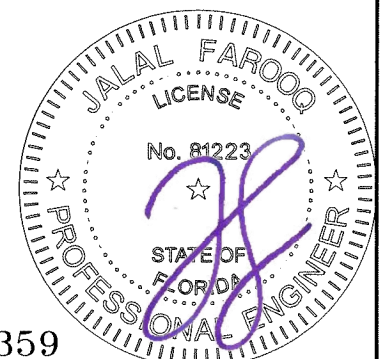
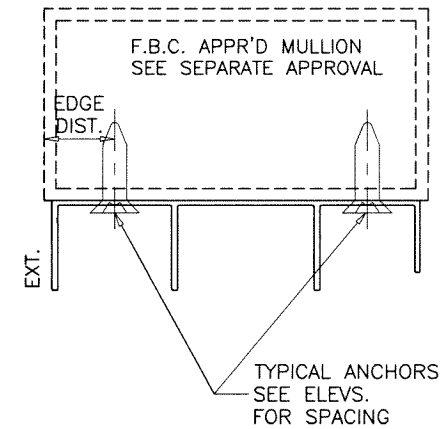
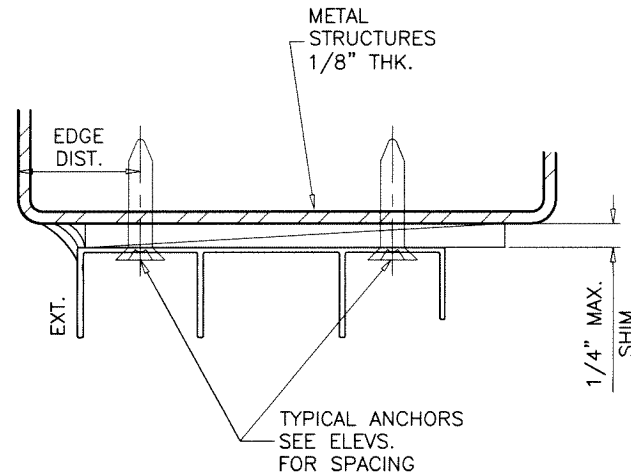
TYPE 'B' - 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
 DIRECTLY INTO CONCRETE OR BLOCKS
 1-1/4" MIN. EMBED INTO CONCRETE OR BLOCKS

TYPE 'C' - 1/4" DIA. TEKS OR SELF-DRILLING SCREWS (GRADE 5 CRS)
 INTO F.B.C. APPROVED MULLIONS
 AND
 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)

CRITICAL EDGE DISTANCE

INTO CONCRETE AND BLOCKS = 2-1/2" MIN.
 INTO WOOD STRUCTURE = 1" MIN.
 INTO METAL STRUCTURE = 3/4" MIN.

WOOD AT HEAD, SILL OR JAMBS SG = 0.55 MIN.
 CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.
 C-90 HOLLOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.



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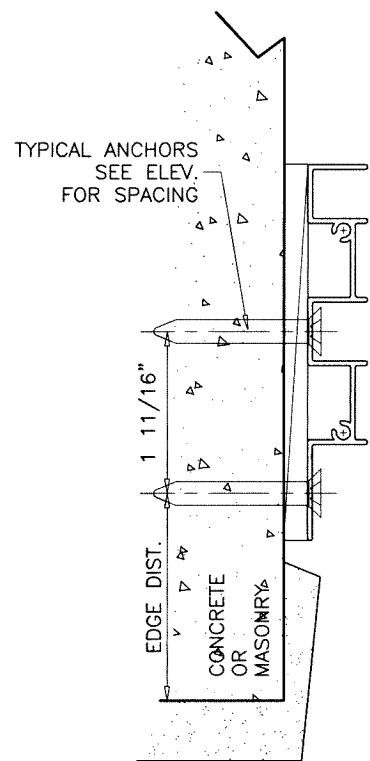
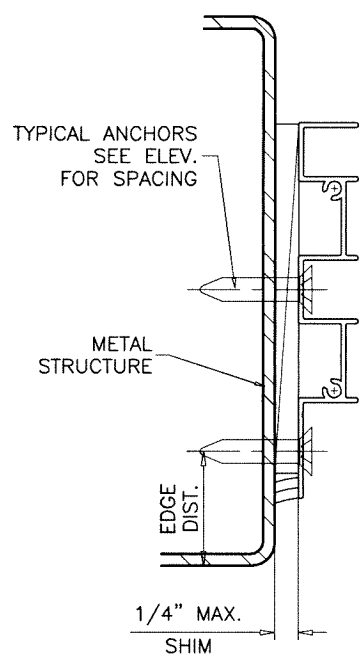
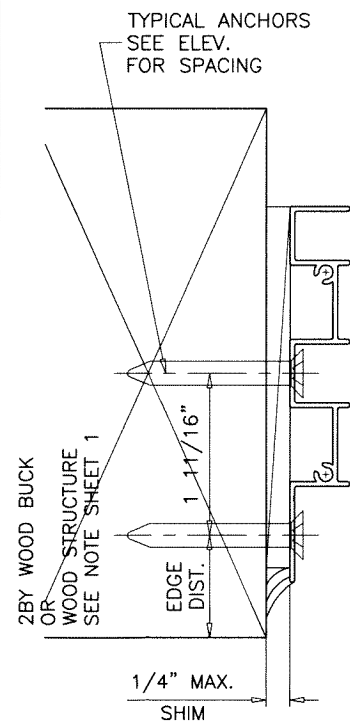
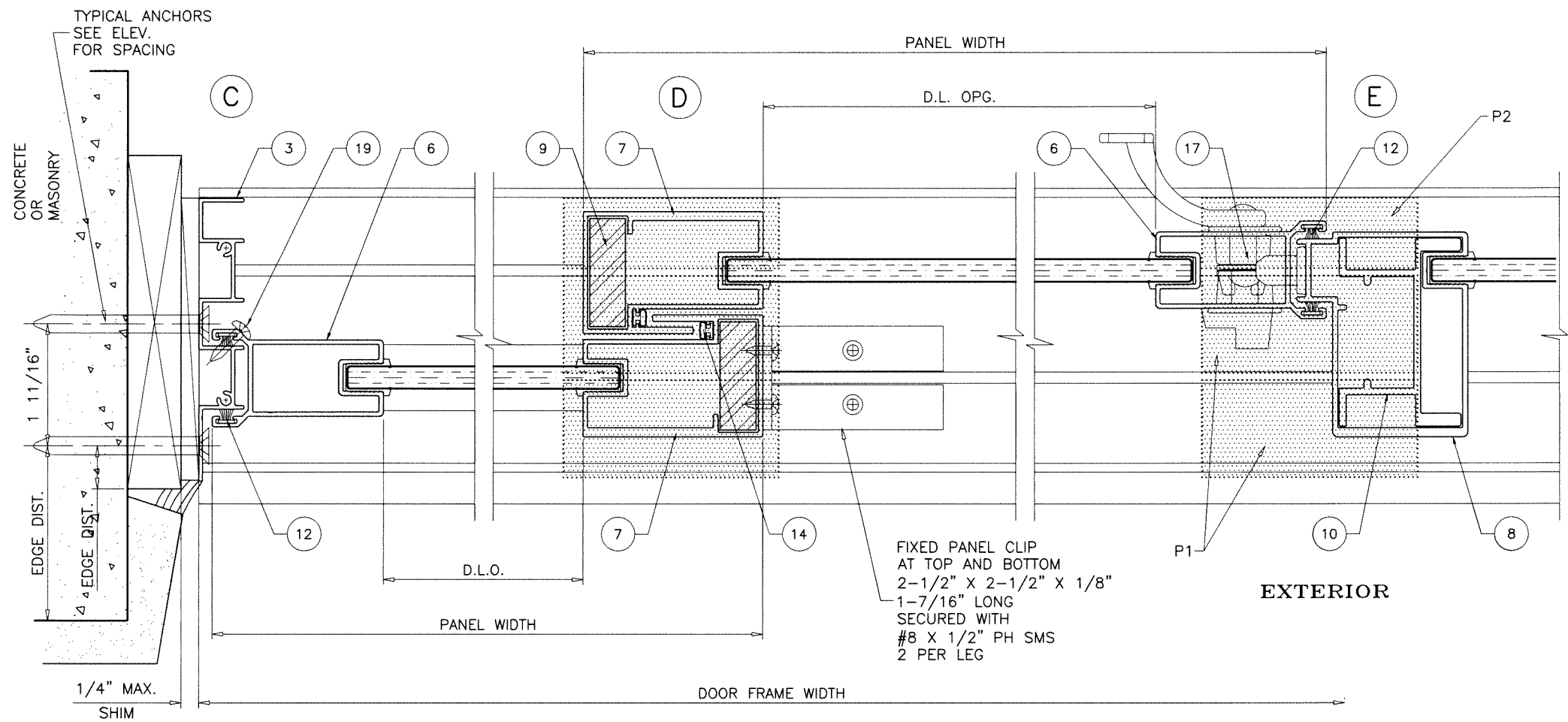
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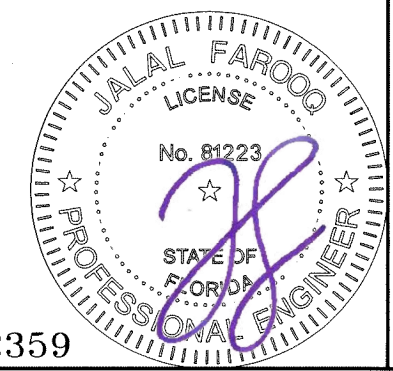
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 scale: 1/2" = 1"
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 drawing no.
20-30F
 sheet 8 of 14



PILE PADS:

- P1 = SELF ADHESIVE PILE PAD AT TOP AND BOTTOM 1-3/8" X 3" LONG
- P2 = SELF ADHESIVE PILE PAD AT TOP AND BOTTOM 1" X 3" LONG

2 TRACK DOORS



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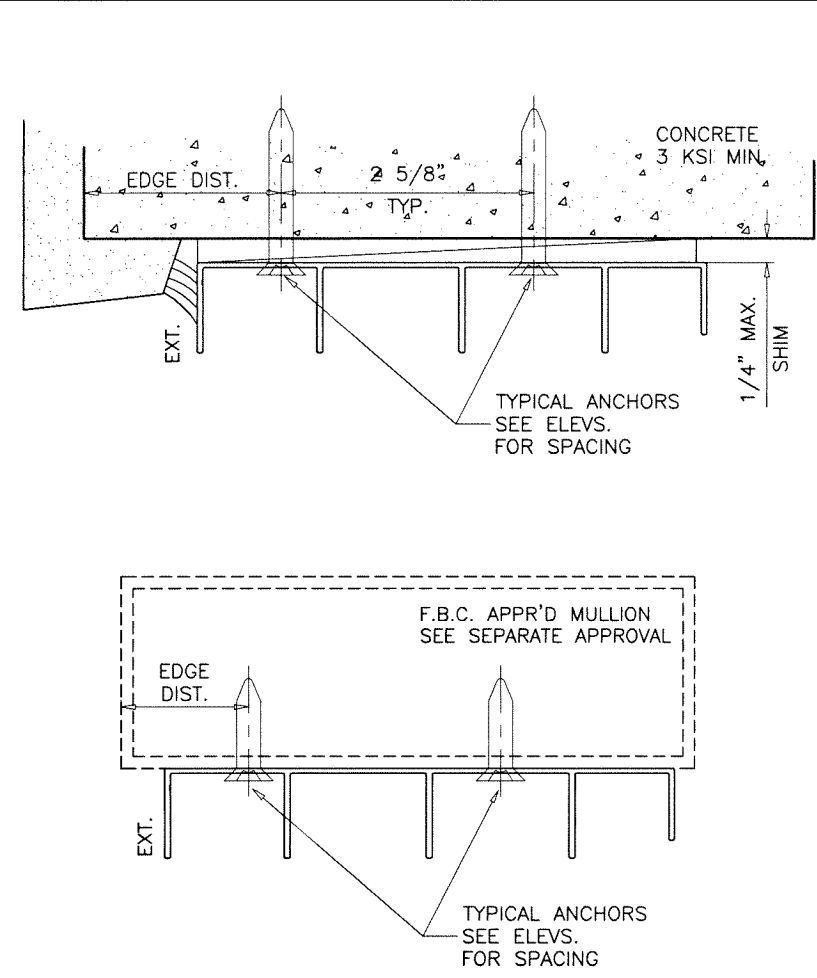
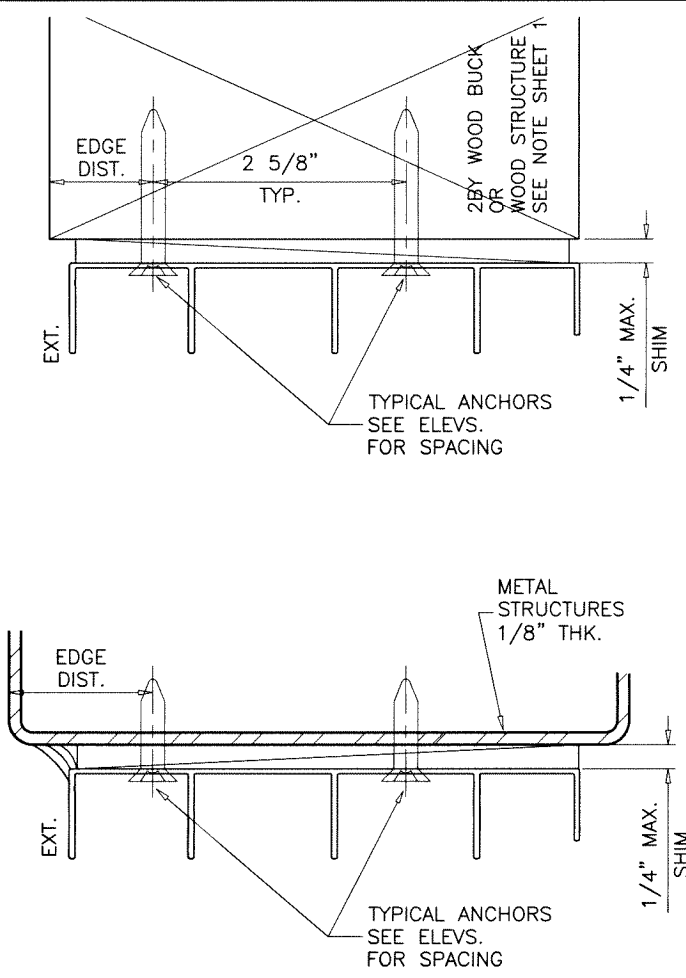
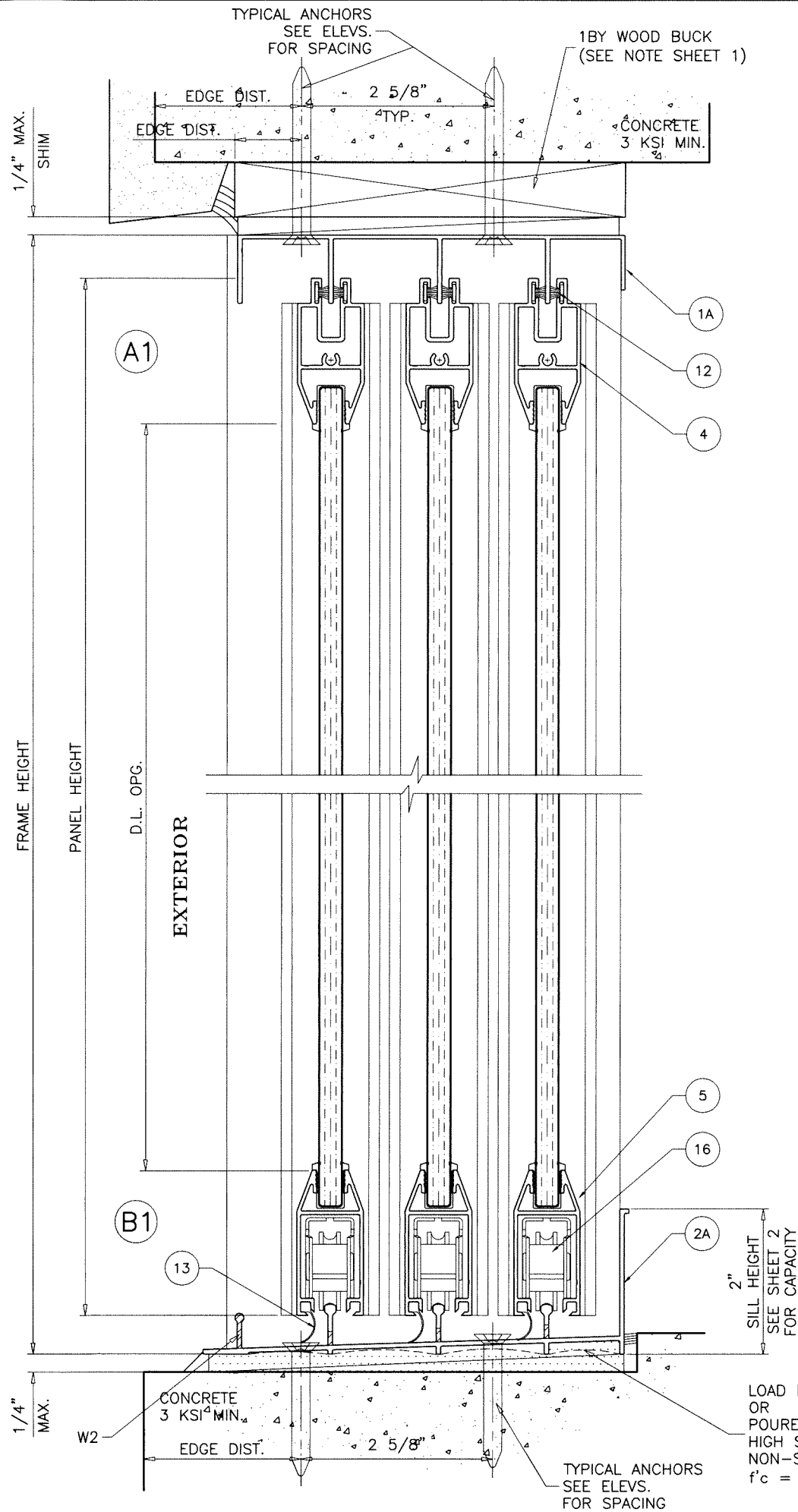
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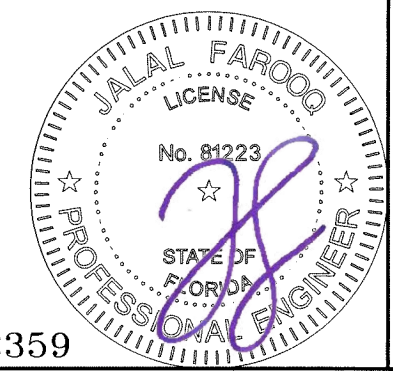
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3 TRACK DOORS



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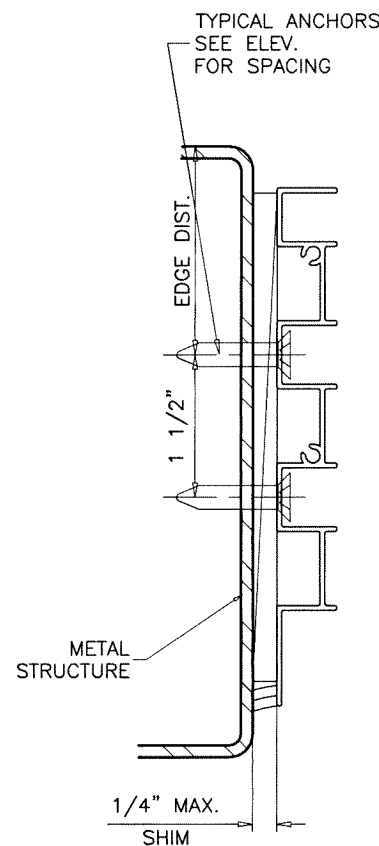
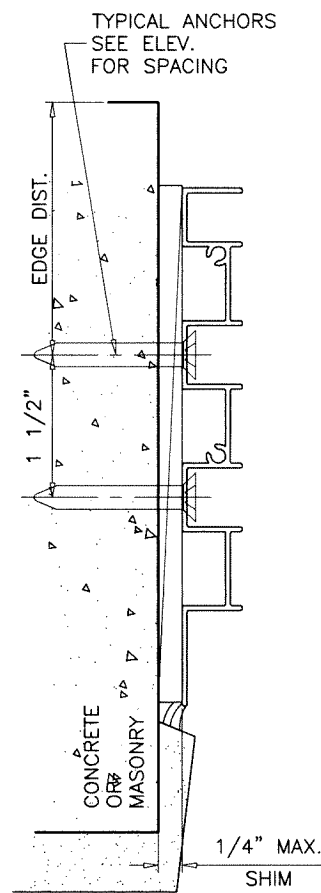
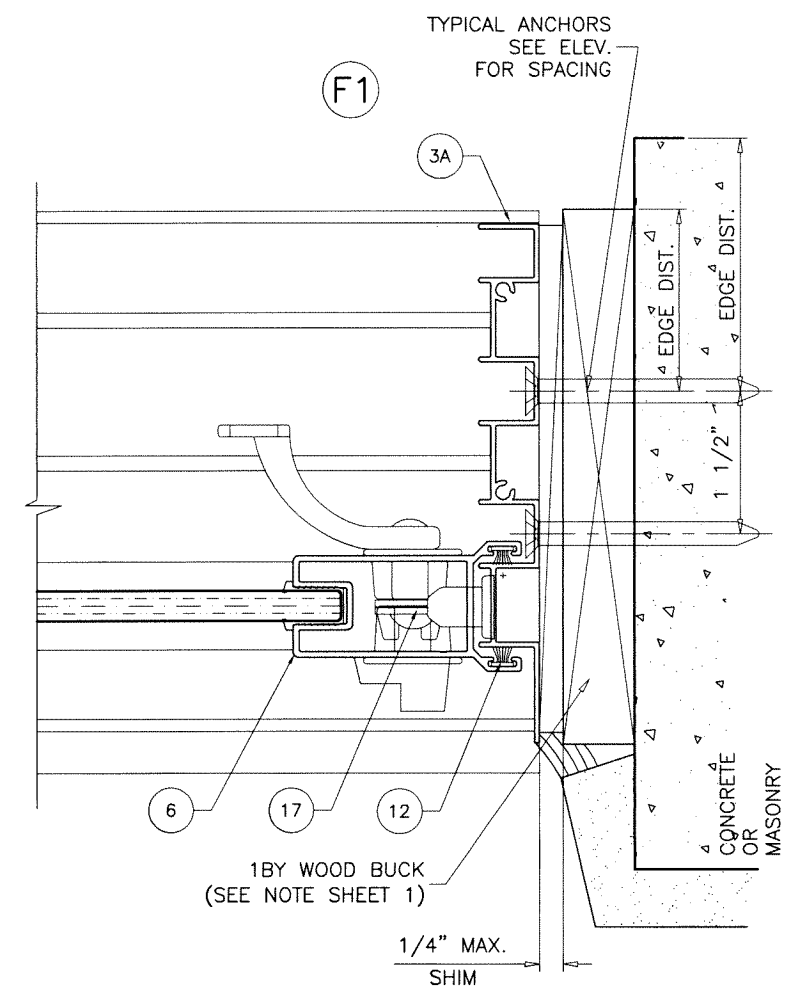
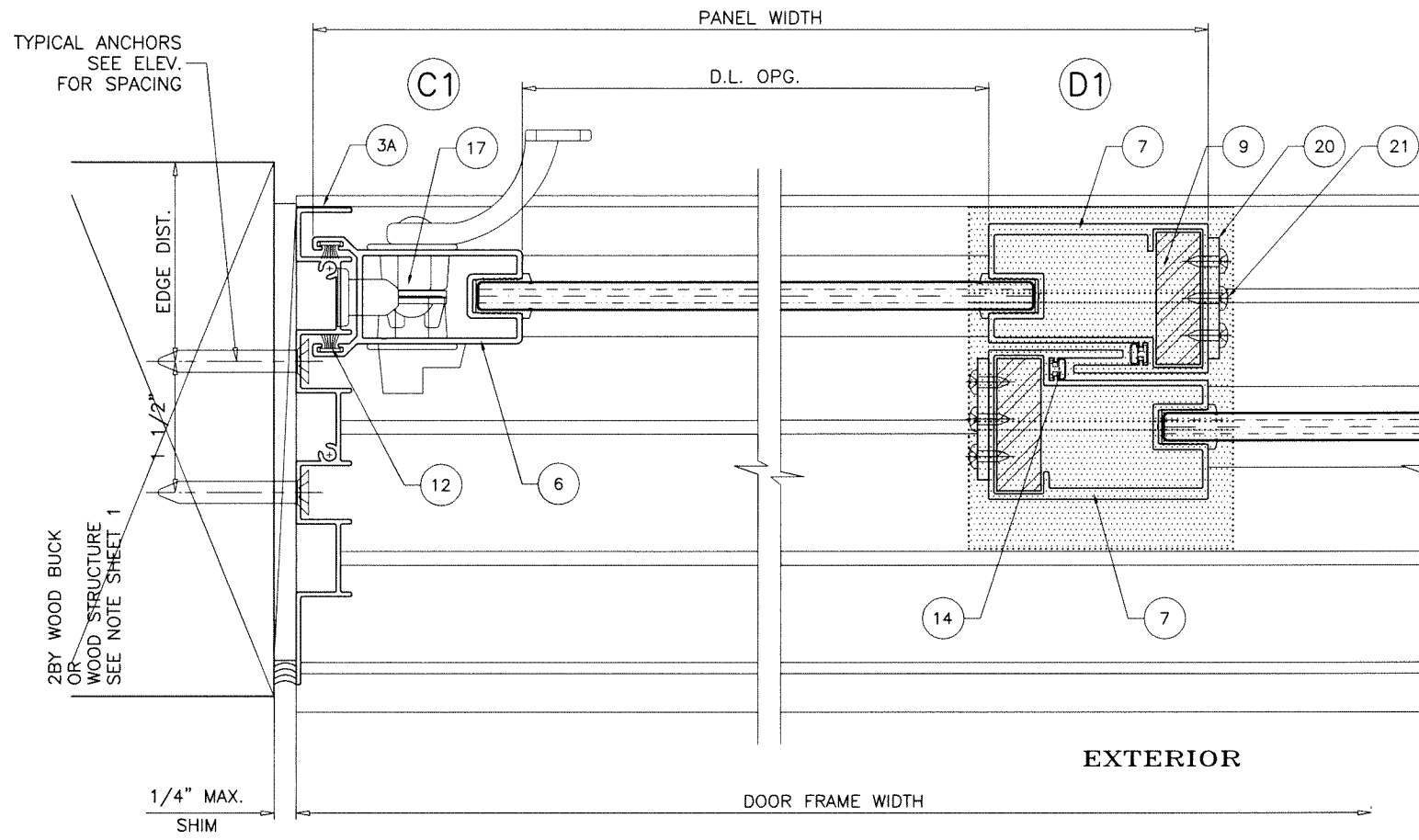
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sheet 10 of 14



3 TRACK DOORS

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 sheet 11 of 14

ITEM #	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	SW-002	1	FRAME HEAD (2 TRACK)	6063-T6	-
1A	SSW-066	1	FRAME HEAD (3 TRACK)	6063-T6	-
2	SSW-0015	1	FRAME SILL (2 TRACK)	6063-T6	-
2.1	SSW-0002	1	HI-RISE FRAME SILL (2 TRACK)	6063-T6	-
2A	SSW-065A	1	FRAME SILL (3 TRACK)	6063-T6	-
2A.1	SW-065B	1	HI-RISE FRAME SILL (3 TRACK)	6063-T6	-
3	SW-001	2	FRAME JAMB (2 TRACK)	6063-T6	-
3A	SW-067	2	FRAME JAMB (3 TRACK)	6063-T6	-
4	SW-005	1/ PANEL	PANEL TOP RAIL	6063-T6	-
5	SW-004	1/ PANEL	PANEL BOTTOM RAIL	6063-T6	-
6	SW-006	2/ PANEL	PANEL LOCK/FIXED STILE	6063-T6	-
7	SW-999	AS REQD.	PANEL INTERLOCK STILE	6063-T6	-
8	SW-3781	AS REQD.	ASTRAGAL STILE	6063-T6	-
9	-	AS REQD.	INTERLOCK REINF. BAR	STEEL	-
10	SW-3782	AS REQD.	ASTRAGAL REINF.	6063-T6	-
11	MPI 5577	AS REQD.	GLAZING GASKET	FLEX PVC	DUROMETER 75±5 SHORE A
12	W11255NK000B	AS REQD.	PILE W'STRIPPING	POLYPROPYLENE	ULTRAFAB, #250
13	MPI N/P 4009	AS REQD.	FLAP W'STRIPPING	VINYL	MELTPPOINT PLASTICS
14	MPI N/P 3252A	AS REQD.	BULB W'STRIPPING	VINYL	MELTPPOINT PLASTICS
16	PJS-03-BSS	2/ MOV. PANEL	TANDEM STEEL WHEELS IN METALLIC HOUSING	ST. STEEL	SULLIVAN & ASSOC.
17	SM4400-SUN	AS REQD.	FLUSH MOUNT HOOK LOCK	ZINC/ST. STEEL	SULLIVAN & ASSOC.
18	#8 X 1"	AS REQD.	FRAME/PANEL ASSEMBLY FASTENERS	ST. STEEL	PH SMS
19	#8 X 1"	AS REQD.	FIX. PANEL FASTENERS, AT 6" FROM ENDS & 17" O.C. MAX.	ST. STEEL	PH SMS
20	-	2/ INTERLOCK	RATAINER PLATE (FOR XX AND XXX DOORS ONLY)	6063-T6	AT TOP AND BOTTOM
21	#8 X 1"	3/ PLATE	RETAINER PLATE FASTENERS	ST. STEEL	PH SELF DRILLING SCREWS
22	-	2/ INTERLOCK	FIXED PANEL CLIP	6063-T5	AT TOP AND BOTTOM

LOCK:

SURFACE MOUNT METALLIC HANDLE AT 37" FROM BOTTOM
FASTENED TO LOCK STILE WITH
(2) #10-24 X 2-3/4" OH MS

SURFACE MOUNT METALLIC 3 PLY HOOK LOCK AT
37" FROM BOTTOM
FASTENED TO LOCK STILE WITH
(2) #10-32 X 1/2" FH MS

SURFACE MOUNT METALLIC KEEPER AT 35-1/2" FROM BOTTOM
FASTENED TO FRAME JAMB AND ASTRAGAL STILE WITH
(2) #10 X 5/8" PH SMS

SEALANT:

ALL JOINTS AND FRAME CONNECTIONS SEALED WITH
WHITE/ALUMINUM COLORED SILICONE.



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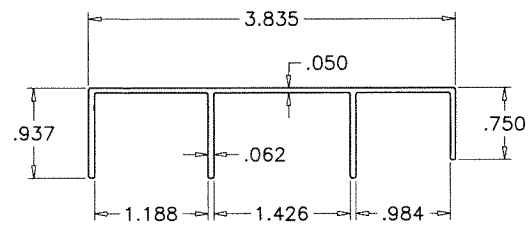
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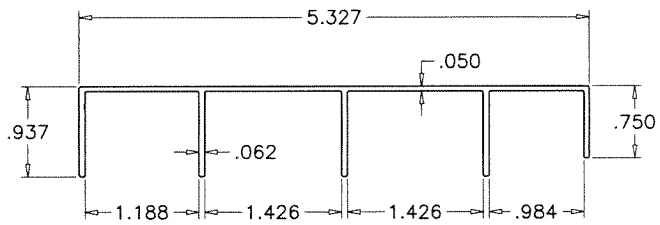
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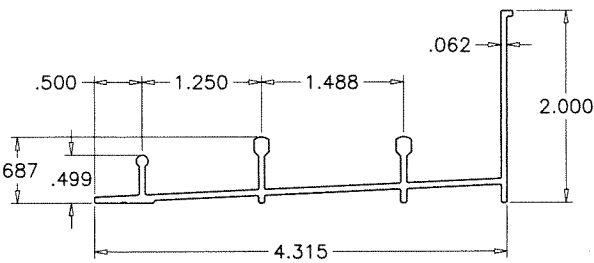
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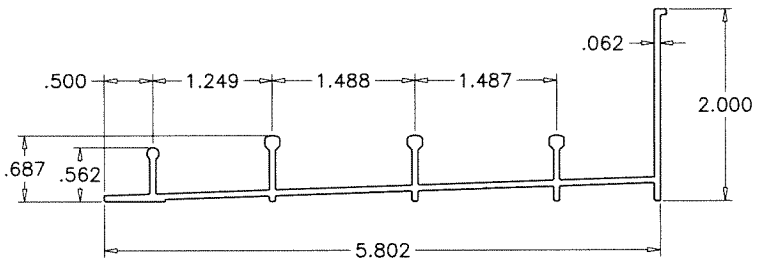
① FRAME HEAD (2 TRACK)



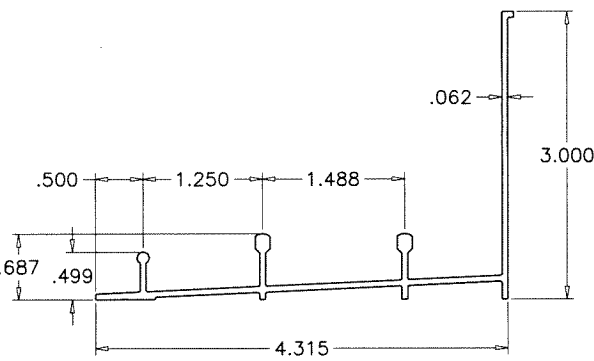
①A FRAME HEAD (3 TRACK)



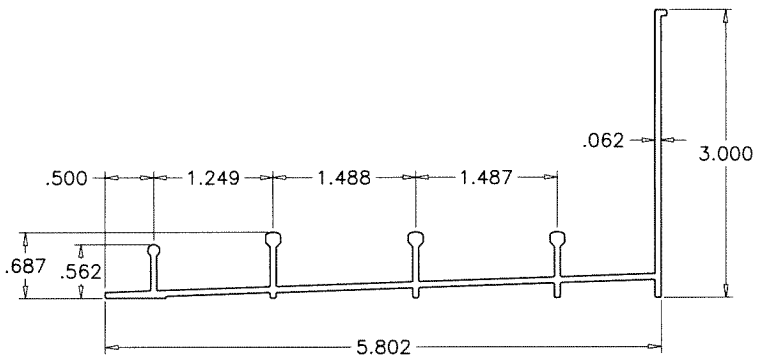
② FRAME SILL (2 TRACK)



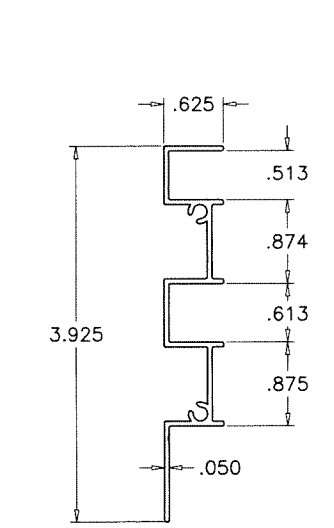
②A FRAME SILL (3 TRACK)



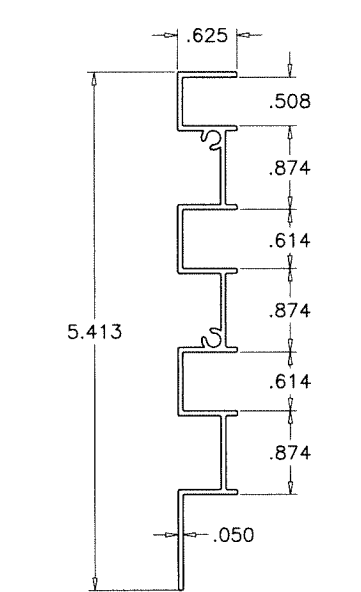
②.1 FRAME SILL (2 TRACK)



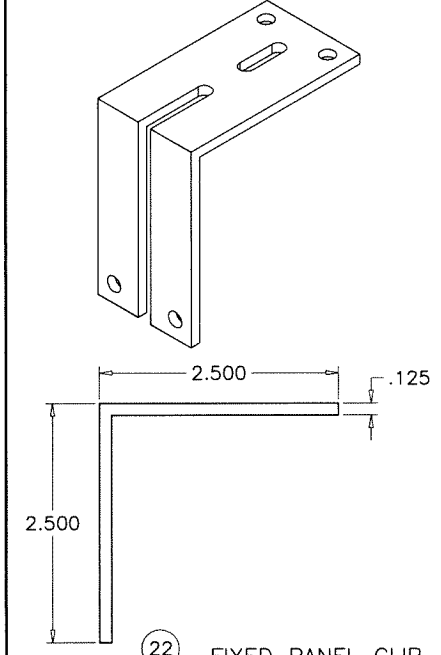
②A.1 FRAME SILL (3 TRACK)



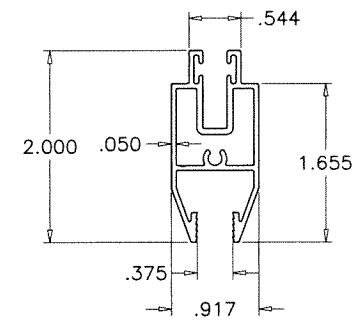
③ FRAME JAMB (2 TRACK)



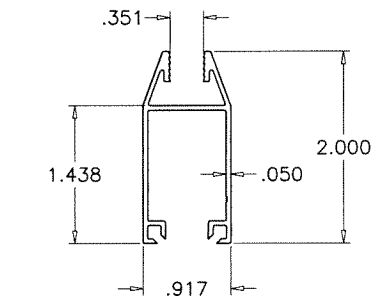
③A FRAME JAMB (3 TRACK)



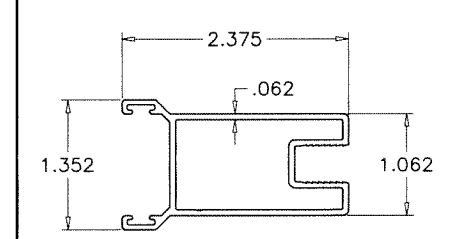
③.2 FIXED PANEL CLIP



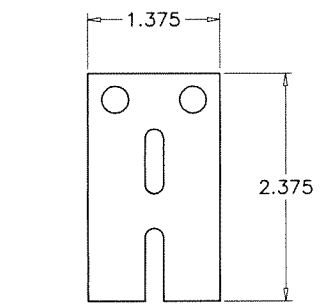
④ PANEL TOP RAIL



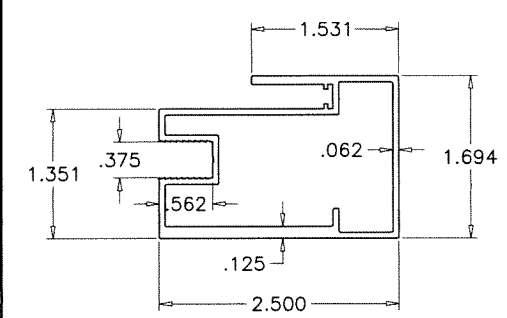
⑤ PANEL BOTTOM RAIL



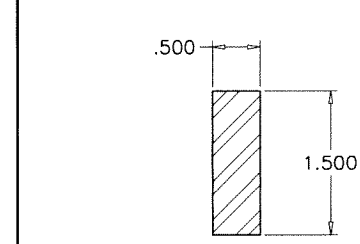
⑥ PANEL JAMB/LOCK STILE



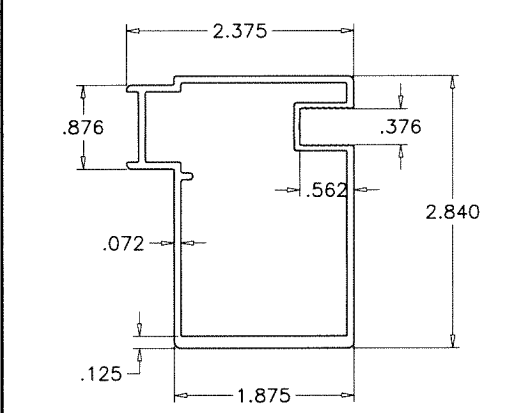
②0 RETAINER PLATE



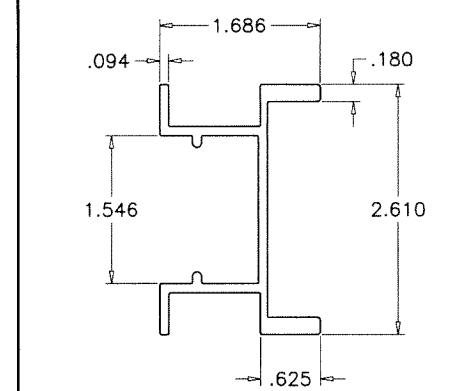
⑦ PANEL INTERLOCK



⑨ INTERLOCK REINF.



⑧ ASTRAGAL STILE



⑩ ASTRAGAL REINF.

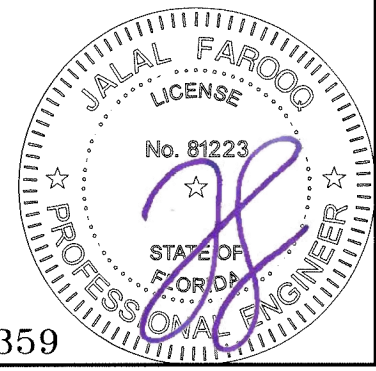
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AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 9360 SUNSET DRIVE, SUITE 220
 MIAMI, FLORIDA 33173 (C.A.N. 3538)
 TEL. (305) 264-8100 FAX. (305) 262-6978
 COMP-ANL\20-30F-SWM

SERIES-1600 ALUM SLIDING GLASS DOOR (N.I.)
Sunshine Windows Manufacturing, Inc.
 1785 West 33rd Place
 Hialeah, FL 33012
 Tel. (305) 364-9952 Fax. (305) 828-5118

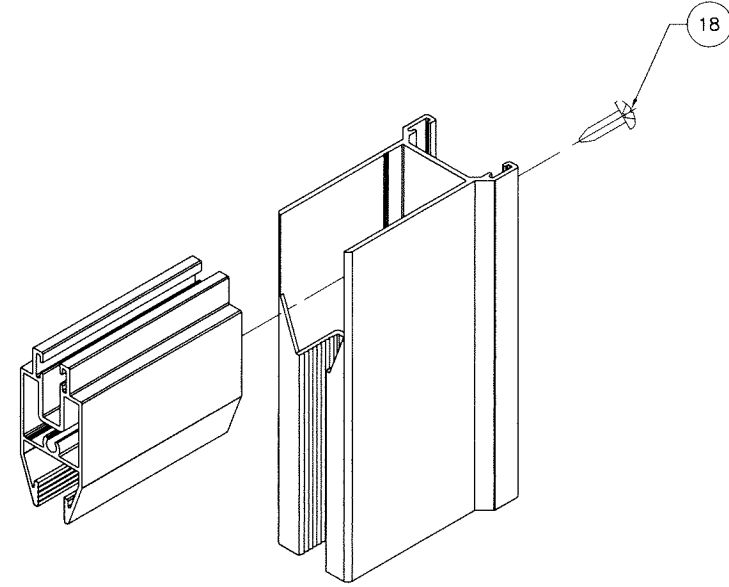
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20-30F
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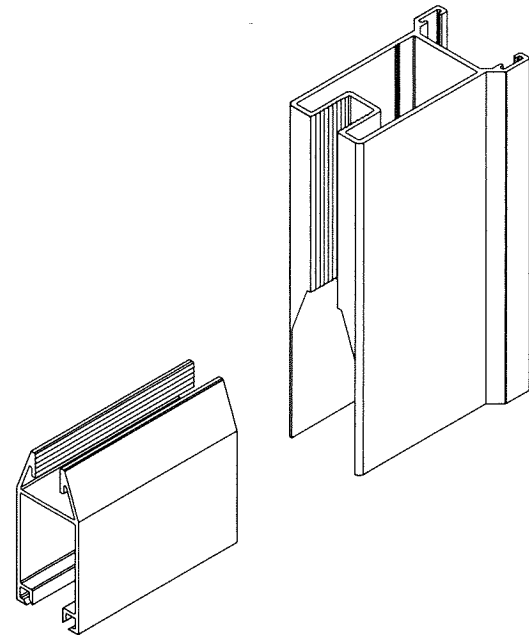
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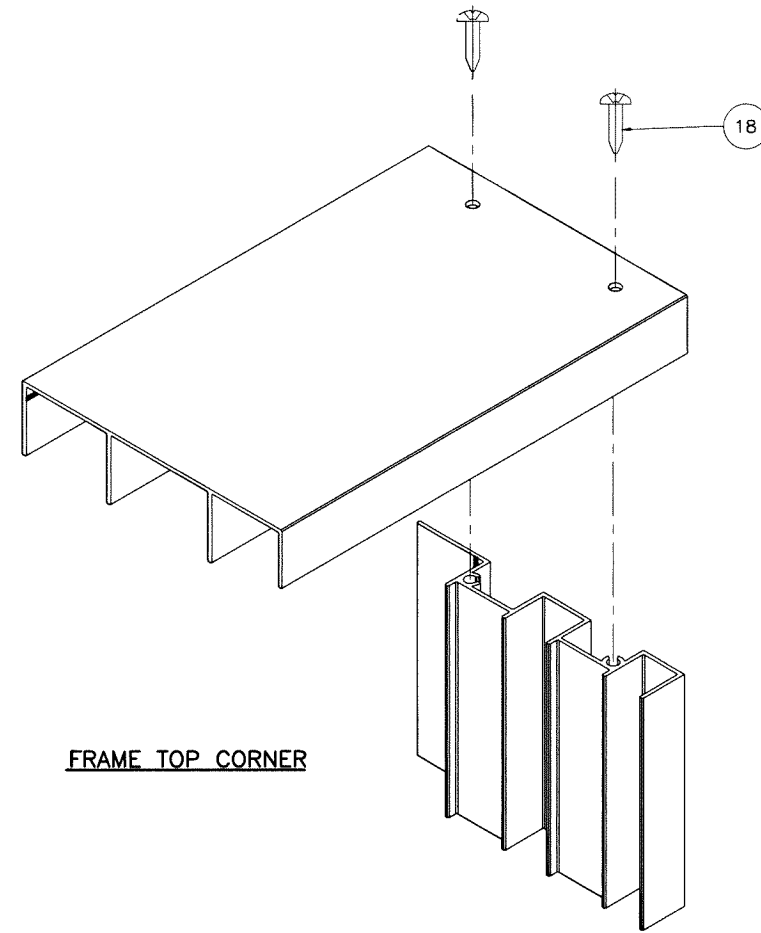
FL #32359



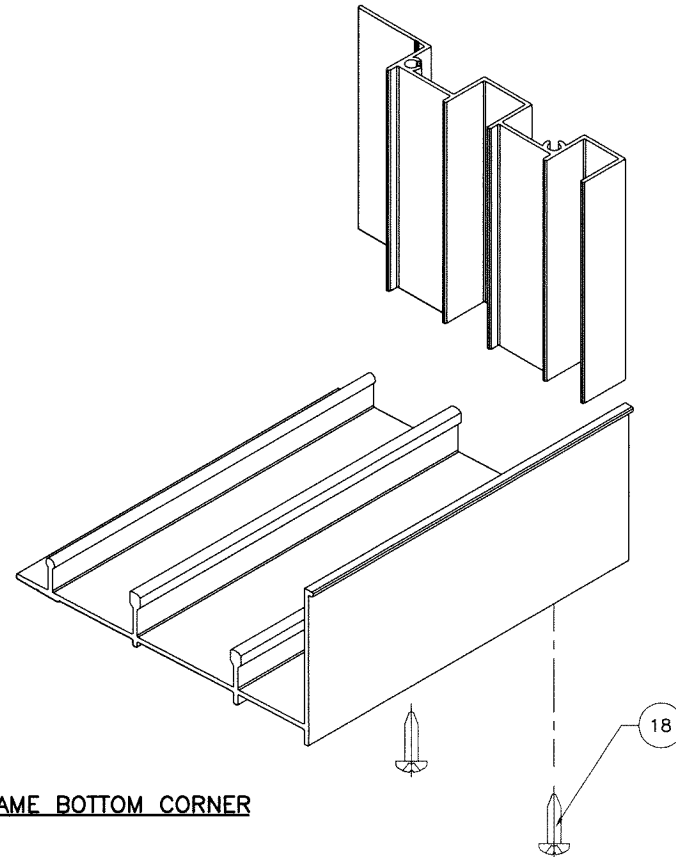
PANEL TOP CORNER



PANEL BOTTOM CORNER



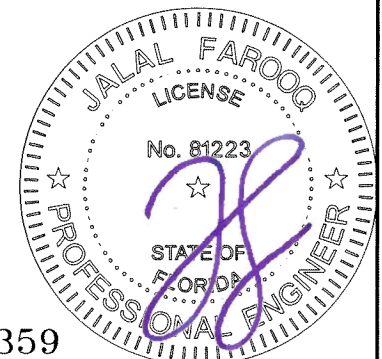
FRAME TOP CORNER



FRAME BOTTOM CORNER

Sealed: 7/26/2023

FL #32359



afc
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