



Product Approval
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SECRETARY

FL #	FL47220												
Application Type	New												
Code Version	2023												
Application Status	Approved												
Comments													
Archived	☐												
Product Manufacturer	Eco Window Systems												
Address/Phone/Email	8502 NW 80th Street Suite 103 Medley, FL 33166 (305) 885-5299 carlos.martinez@ecowindowsystems.com												
Authorized Signature	Carlos Martinez carlos.martinez@ecowindowsystems.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 ☐ Evaluation Report - Hardcopy Received												
Florida Engineer or Architect Name who developed the Evaluation Report	Javad Ahmad												
Florida License	PE-70592												
Quality Assurance Entity	Keystone Certifications, Inc.												
Quality Assurance Contract Expiration Date	12/31/2032												
Validated By	Ammad Riaz, P.E. ☒ Validation Checklist - Hardcopy Received												
Certificate of Independence	FL47220_R0_COI_Certificate_of_Independence_JA-PE.pdf												
Referenced Standard and Year (of Standard)	<table border="0"> <thead> <tr> <th><u>Standard</u></th> <th><u>Year</u></th> </tr> </thead> <tbody> <tr> <td>ASTM E283</td> <td>2019</td> </tr> <tr> <td>ASTM E331</td> <td>2000</td> </tr> <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>	<u>Standard</u>	<u>Year</u>	ASTM E283	2019	ASTM E331	2000	TAS 201	1994	TAS 202	1994	TAS 203	1994
<u>Standard</u>	<u>Year</u>												
ASTM E283	2019												
ASTM E331	2000												
TAS 201	1994												
TAS 202	1994												
TAS 203	1994												
Equivalence of Product Standards Certified By													

Product Approval Method

Method 1 Option D

Date Submitted 12/20/2024
 Date Validated 12/20/2024
 Date Pending FBC Approval 12/22/2024
 Date Approved 02/11/2025

Summary of Products

FL #	Model, Number or Name	Description
47220.1	ECO-NOVO Series 775 Sliding Door System	Large and Small Missile Impact Resistant Sliding Glass Door System
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: Please see enclosed documents for product performance information, maximum sizes, anchorage details, anchor type and spacing information.		Installation Instructions FL47220_R0_II ECO-NOVO Series 775 SGD SYSTEM-JA-2042-24.pdf Verified By: Javad Ahmad PE-70592 Created by Independent Third Party: Yes Evaluation Reports FL47220_R0_AE ECO-NOVO Series 775 SGD-PA EVR.pdf Created by Independent Third Party: Yes

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

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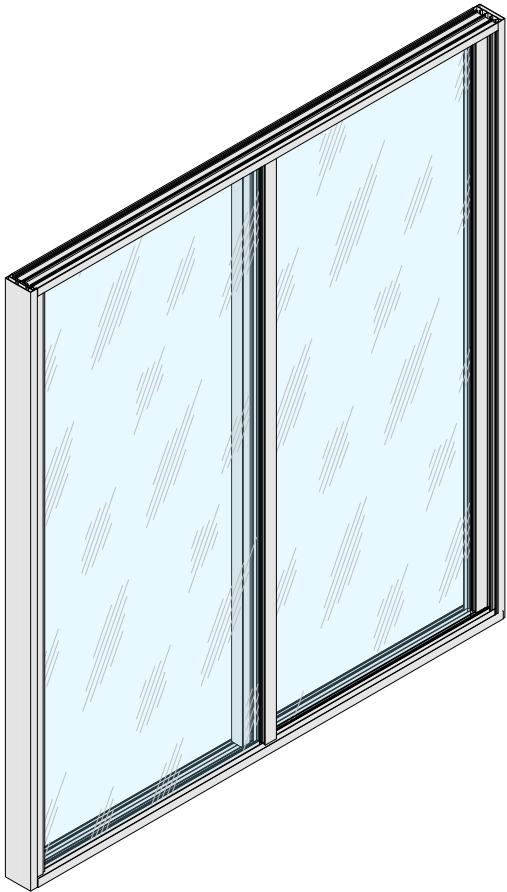
Under Florida law, email addresses are public records. If you do not want your e-mail address released in response to a public-records request, do not send electronic mail to this entity. Instead, contact the office by phone or by traditional mail. If you have any questions, please contact 850.487.1395. *Pursuant to Section 455.275(1), Florida Statutes, effective October 1, 2012, licensees licensed under Chapter 455, F.S. must provide the Department with an email address if they have one. The emails provided may be used for official communication with the licensee. However email addresses are public record. If you do not wish to supply a personal address, please provide the Department with an email address which can be made available to the public. To determine if you are a licensee under Chapter 455, F.S., please click [here](#).

Product Approval Accepts:

ECO WINDOW SYSTEMS, LLC.
ECO-NOVO SERIES: 775 SLIDING DOOR SYSTEM
(SMALL AND LARGE MISSILE IMPACT RATED)

FL# 47220

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SLIDING DOOR (O-X CONFIGURATION)

GENERAL NOTES:

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2023 (8th EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
- GLASS CAPACITIES FOUND IN THE CHARTS HEREIN THIS CERTIFICATION ARE BASED ON ASTM E1300-16 (3 SEC. GUSTS).
- ALL DESIGN PRESSURES NOTED HEREIN ARE 'ALLOWABLE STRESS DESIGN' (ASD) PRESSURES BASED ON MAXIMUM TESTED PRESSURES DIVIDED BY A 1.5 SAFETY FACTOR.
- 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 MANUFACTURES INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
- GUARD REQUIREMENTS SHALL BE REVIEWED ON A SITE-SPECIFIC BASIS.
- NO FACTORS HAVE BEEN USED IN ALLOWABLE STRESS CAPACITY OF THE PRODUCT. ANCHORS FOR WOODEN SUBSTRATE HAVE BEEN PROVIDED USING LOAD DURATION FACTOR OF Cd=1.6.
- 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 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.
- 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.
- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.

- THE ARCHITECT/ENGINEER OF RECORD FOR THE PROJECT SUPERSTRUCTURE WITH WHICH THIS PRODUCT IS USED SHALL BE RESPONSIBLE FOR THE INTEGRITY OF ALL SUBSTRATES WHICH SHALL BE COORDINATED BY THE PERMITTING CONTRACTOR. WOOD BUCKS (BY OTHERS) SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE SUPPORTING STRUCTURE.
- THIS PRODUCT APPROVAL DOCUMENT SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.
- ENSURE A COMPREHENSIVE REVIEW OF THE NOTES ON EACH SHEET TO AVOID ANY POTENTIAL PROBLEM IN UTILIZING THIS APPROVAL.
- MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2023 FLORIDA BLDG. CODE & ADOPTED STANDARDS.
- FASTENERS DESCRIBED IN THIS CERTIFICATION ARE PERMITTED TO BE SUBSTITUTED, PROVIDED THAT STRENGTH OF THE ALTERNATIVE ANCHOR IS EQUAL TO OR GREATER THAN THE ORIGINALLY SPECIFIED ANCHOR. FINAL APPROVAL OF SUBSTITUTED ANCHORS SHALL BE BY OTHERS.
- WOOD SCREWS REFERENCED IN THIS CERTIFICATION SHALL BE GRADE 2 MIN. (Fu = 74,000 PSI).
- FASTENERS SHALL BE CADMIUM PLATED OR OTHERWISE CORROSION-RESISTANT MATERIAL AND SHALL COMPLY WITH "SPECIFICATIONS FOR ALUMINUM STRUCTURES" SECTION J.3 OF THE CURRENT CODE BY THE ALUMINUM ASSOCIATION, INC., & ANY APPLICABLE FEDERAL, STATE, AND/OR LOCAL CODES.
- ALTERATIONS, ADDITIONS, OR OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE THIS CERTIFICATION.
- SAFEGUARDS MUST BE OBSERVED (NOT PART OF THIS CERTIFICATION).
- THIS SYSTEM IS APPROVED FOR FORCED ENTRY RESISTANCE.

- THIS SYSTEM IS APPROVED FOR INSTALLATION WHERE WATER INFILTRATION RESISTANCE IS REQUIRED.
- THIS SYSTEM IS RATED FOR SMALL & LARGE MISSILE IMPACT.

INSTRUCTIONS: (CLICK ON THE BUTTON ON THE RIGHT TO DIRECTLY REACH THE DETAIL)

- STEP 1 - WIND PRESSURE CALCULATION (BY OTHERS):
- DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
- STEP 2 SIZE AND CAPACITY SELECTION
- SEE THE LOADING CHART FOR GLASS AND MULLION ON SHEET **106**. USE THE LOWER VALUE FROM THE TWO CHARTS, CORRESPONDING TO THE DESIRED WINDOW SIZE AS THE DESIGN LOAD CAPACITY OF THE SYSTEM. THIS VALUE SHOULD NOT EXCEED THE DESIGN WIND LOAD REQUIREMENT OBTAINED IN STEP 1 ABOVE. [CLICK HERE](#)

STEP 3 ANCHOR SELECTION

- SELECT APPROPRIATE ANCHOR AND ANCHORAGE DETAILS FROM SHEET **113 & 114**. [CLICK HERE](#)

NOTE:

- THIS PRODUCT APPROVAL DRAWING IS A PERFORMANCE ANALYSIS OF THE INDIVIDUAL COMPONENTS AND DOES NOT CONTAIN INFORMATION ON EACH PROJECT SITE SPECIFIC CONDITION.
- STRUCTURAL, WATERPROOFING, SEALING, GUARD, AESTHETICS AND/OR OTHER MISCELLANEOUS REQUIREMENTS MUST BE COORDINATED AND APPROVED BY THE AUTHORITY HAVING JURISDICTION
- FOR SITE-SPECIFIC CONDITIONS WHERE THE DESIGN PRESSURE / PRODUCT SIZE EXCEEDS THE VALUES SHOWN IN THIS DOCUMENT, CONTACT ECO WINDOW SYSTEMS,LLC FOR SPECIAL APPROVALS THROUGH THEIR OFFICIAL MAIL carlos.martinez@ecowindowssystems.com / CONTACT DETAILS PROVIDED ON THE RIGHT SIDE OF THIS SHEET.



JAVAD AHMAD PE, inc
7875 NW 12th St., Suite 102
Doral, FL 33126
Ph: (305) 424-8001
support@ja-pe.com

CONSULTING • STRUCTURAL DESIGN • FACADES • BUILDING ENVELOPE • SYSTEM DESIGN • PRODUCT APPROVALS

drawing no.	date:	JA-2042-24	drawn by: ST	check by: MK	REVISION	
					BY	DESCRIPTION
No.						

ECO-NOVO SERIES: 775 SLIDING DOOR
SYSTEM
(LARGE AND SMALL MISSILE IMPACT RATED)



SEALED: 12/19/2024

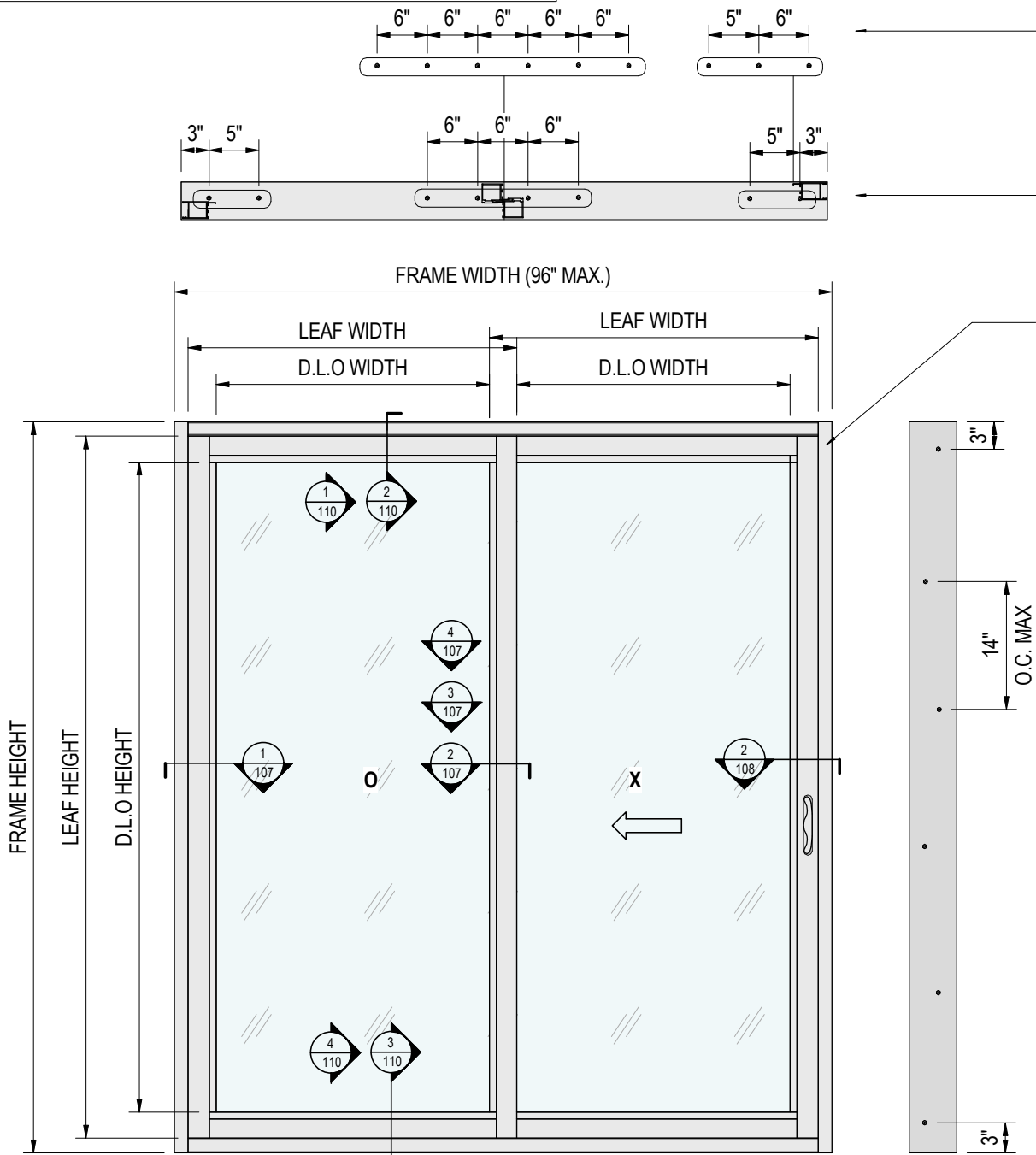
TYPICAL ELEVATIONS

FL# 47220



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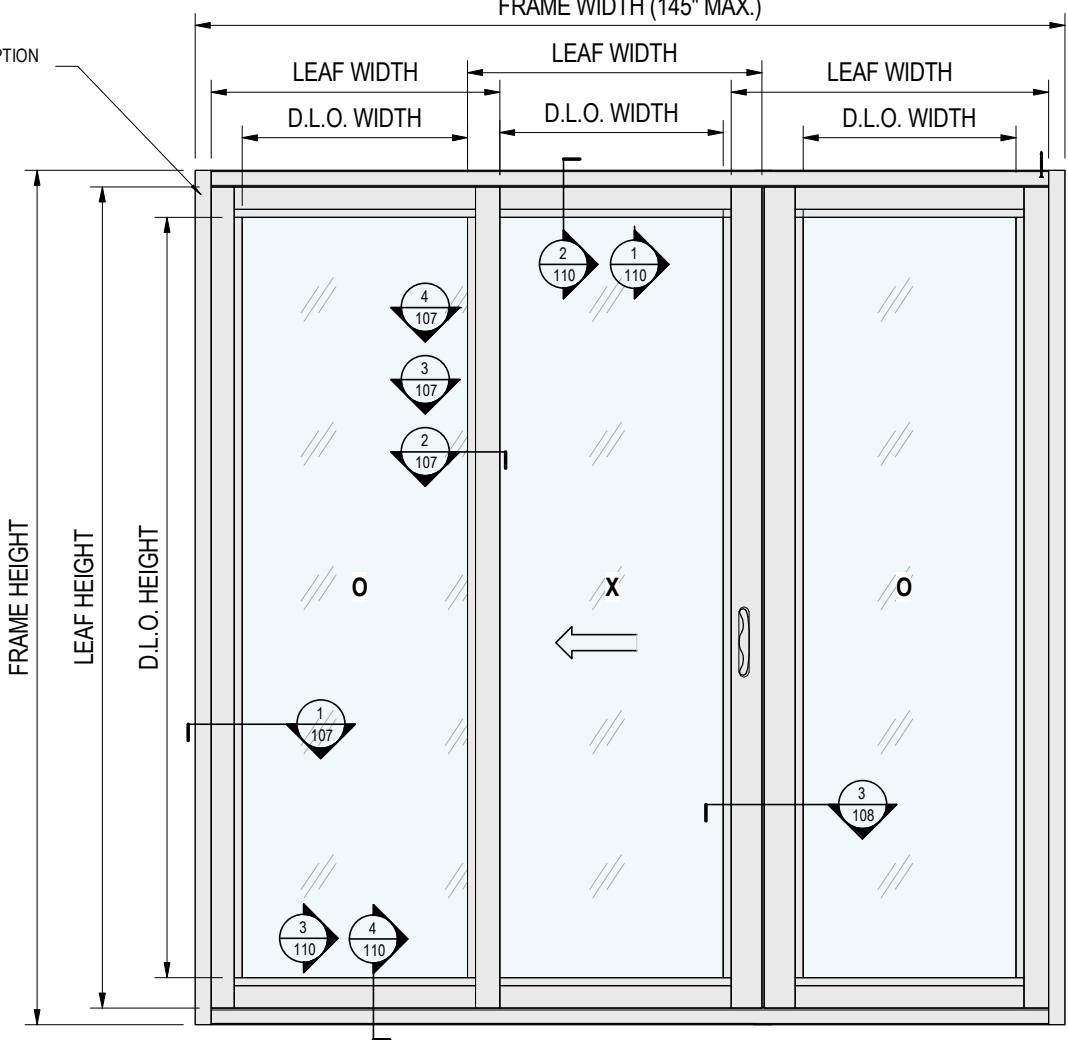
6 ANCHOR CLUSTERS

ANCHOR CLUSTERS

UNANCHORED JAMB OPTION
UP TO 96\"/>

14\"/>

3\"/>



14\"/>

3\"/>

1
102

TWO PANEL SLIDING GLASS DOOR- 2 TRACK

NOT TO SCALE

2
102

THREE PANEL SLIDING GLASS DOOR - 2 TRACK

NOT TO SCALE

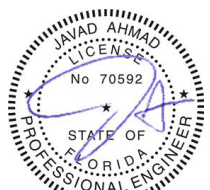
NOTE:

- FOR HOLLOW/ GFCMU, USE CLUSTER WITH 6 ANCHORS.
- UNANCHORED JAMBS MAY BE USED FOR HEIGHTS EQUAL OR LESS THAN 96\"/>
- ANCHORAGE LAYOUT IS SAME FOR HEAD & SILL.
- FOR ALLOWABLE DESIGN PRESSURES, SEE SHEET 106.
- FOR LOCKING MECHANISM DETAILS, SEE SHEET 117.
- SYMBOLS- **O** - REFERS TO FIXED PANEL.
X - REFERS TO OPERABLE PANEL.

ECO-NOVO SERIES: 775 SLIDING DOOR
SYSTEM
(LARGE AND SMALL MISSILE IMPACT RATED)



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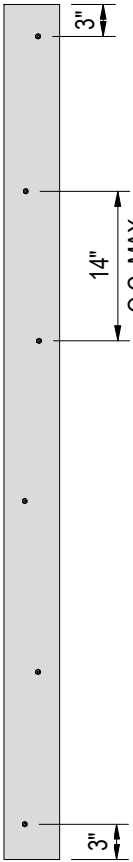
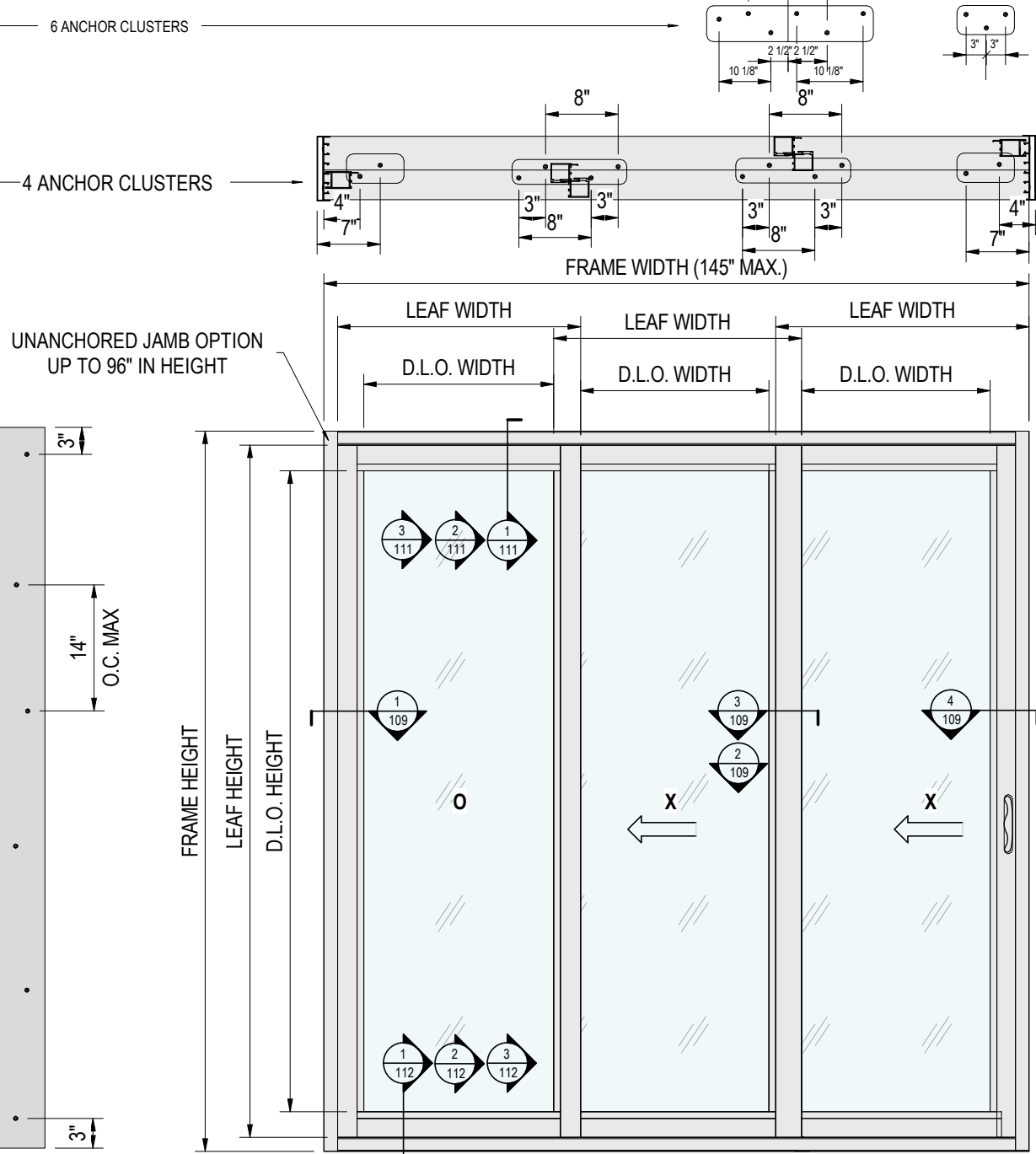
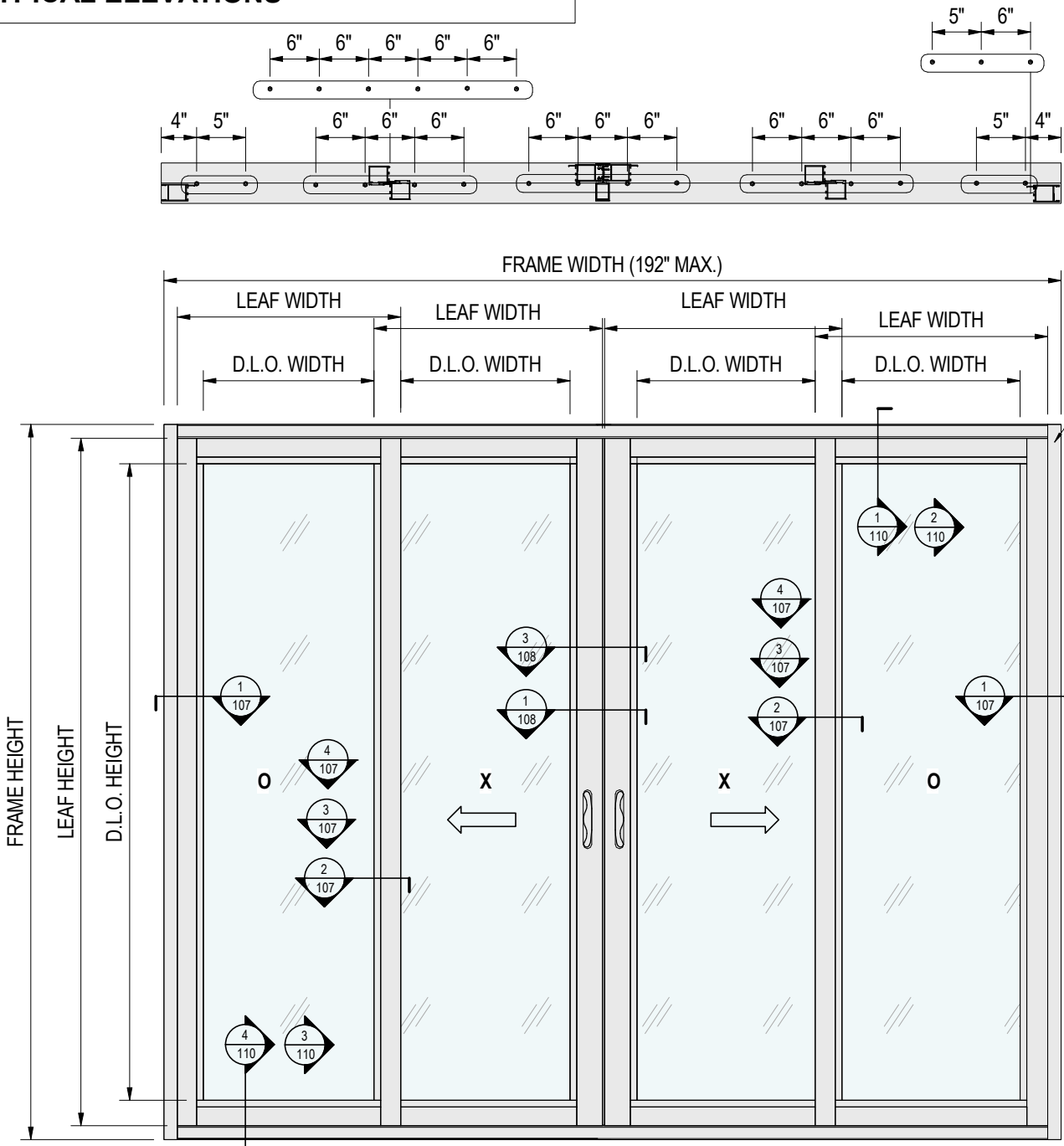
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102

102 OF 117

TYPICAL ELEVATIONS

FL# 47220



1
103

FOUR PANEL SLIDING GLASS DOOR - 2 TRACK

NOT TO SCALE

2
103

THREE PANEL SLIDING GLASS DOOR - 3 TRACK

NOT TO SCALE

- NOTE:**
- FOR HOLLOW/ GFCMU, USE CLUSTER WITH 6 ANCHORS.
 - UNANCHORED JAMBS MAY BE USED FOR HEIGHTS EQUAL OR LESS THAN 96".
 - ANCHORAGE LAYOUT IS SAME FOR HEAD & SILL.
 - FOR ALLOWABLE DESIGN PRESSURES, SEE SHEET 106.
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 - SYMBOLS- **O** - REFERS TO FIXED PANEL.
X - REFERS TO OPERABLE PANEL.



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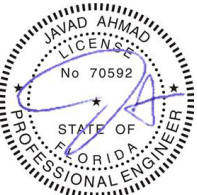
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REVISION			
No.	DATE	BY	DESCRIPTION

ECO-NOVO SERIES: 775 SLIDING DOOR SYSTEM
(LARGE AND SMALL MISSILE IMPACT RATED)



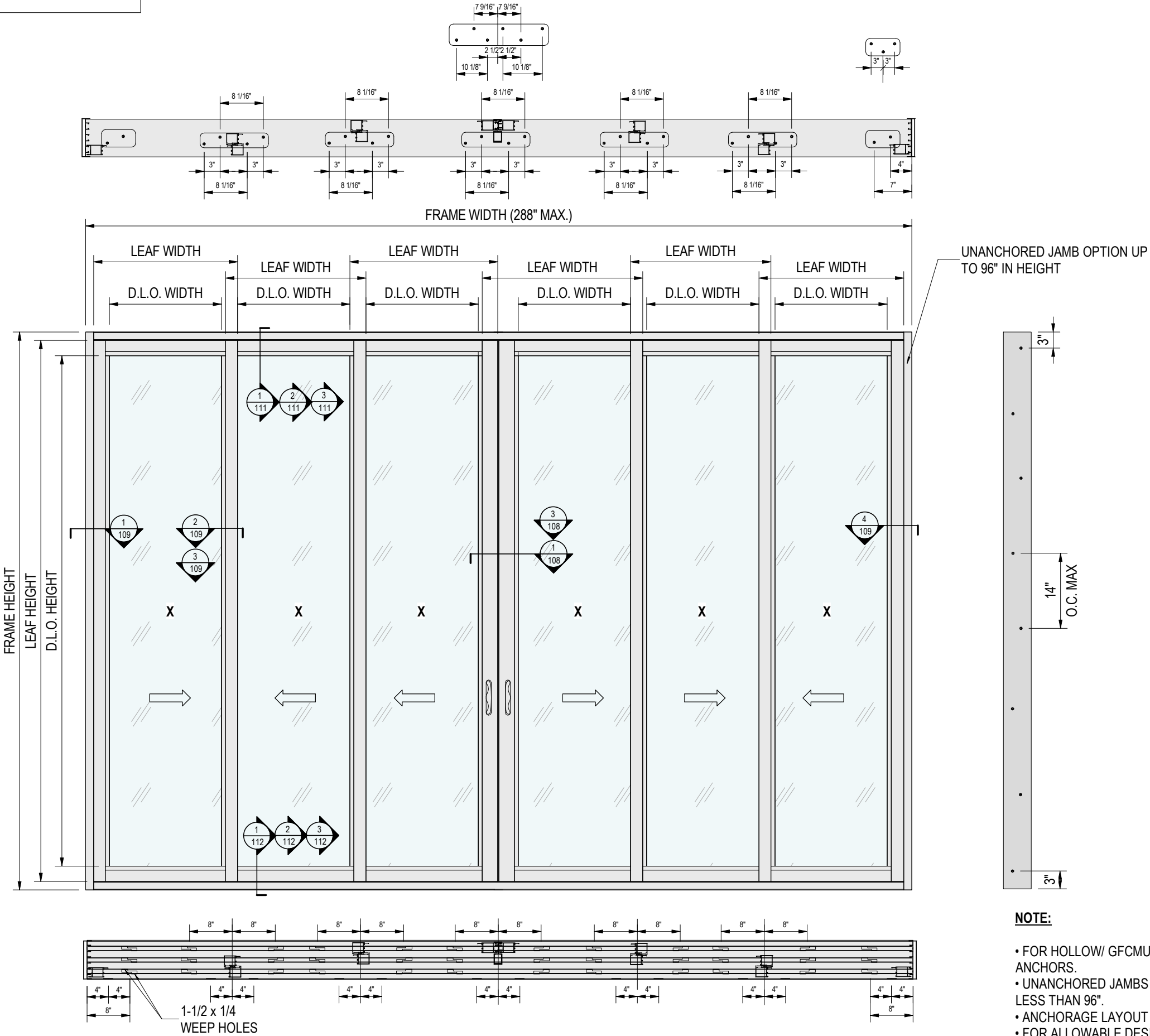
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TEL: (305) 885-5299 FAX: (305) 885-5902



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103

103 OF 117



NOTE:

- FOR HOLLOW/ GFCMU, USE CLUSTER WITH 6 ANCHORS.
- UNANCHORED JAMBS MAY BE USED FOR HEIGHTS LESS THAN 96".
- ANCHORAGE LAYOUT IS SAME FOR HEAD & SILL.
- FOR ALLOWABLE DESIGN PRESSURES, SEE SHEET 106.
- FOR LOCKING MECHANISM DETAILS, SEE SHEET 117.
- SYMBOLS- O - REFERS TO FIXED PANEL.
X - REFERS TO OPERABLE PANEL.

1
104

SIX PANEL SLIDING GLASS DOOR - 3 TRACK
NOT TO SCALE



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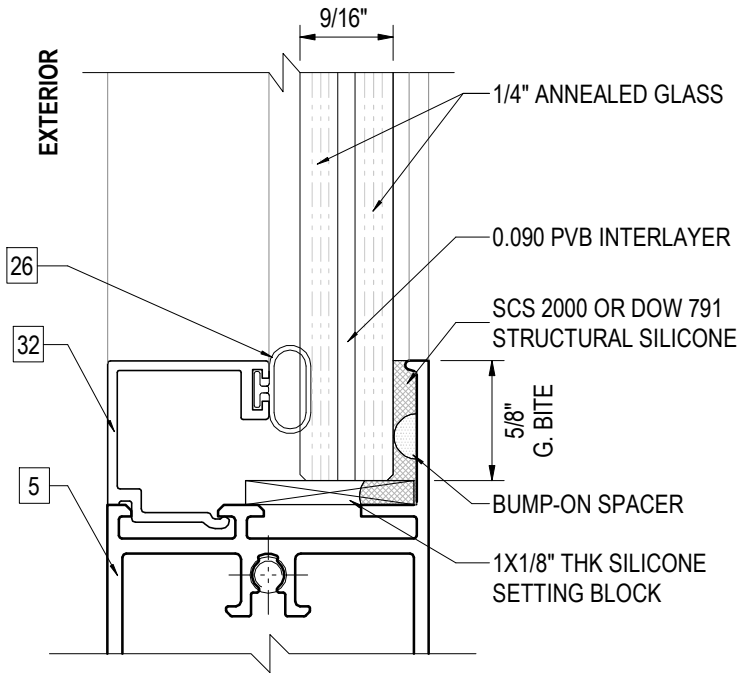
ECO-NOVO SERIES: 775 SLIDING DOOR
SYSTEM
(LARGE AND SMALL MISSILE IMPACT RATED)



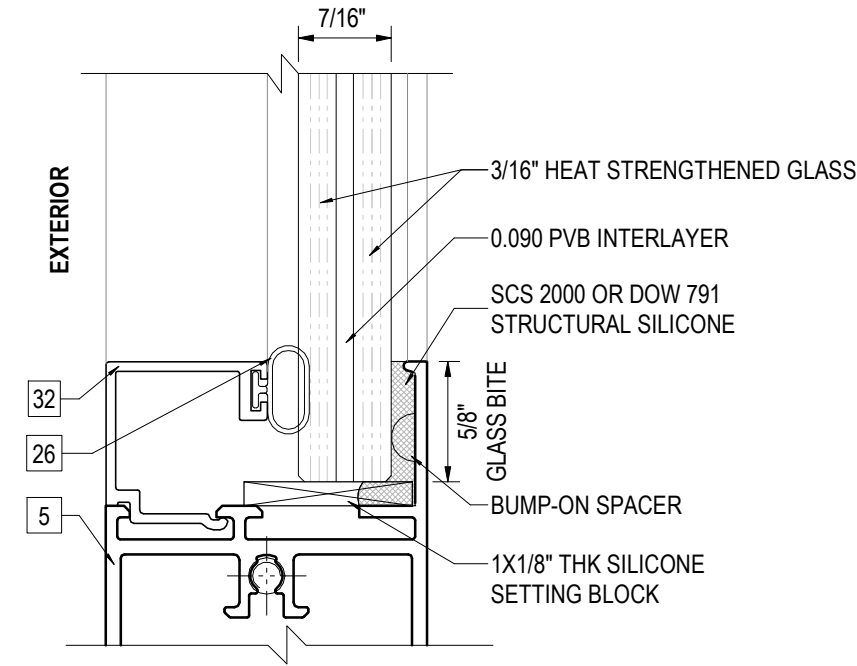
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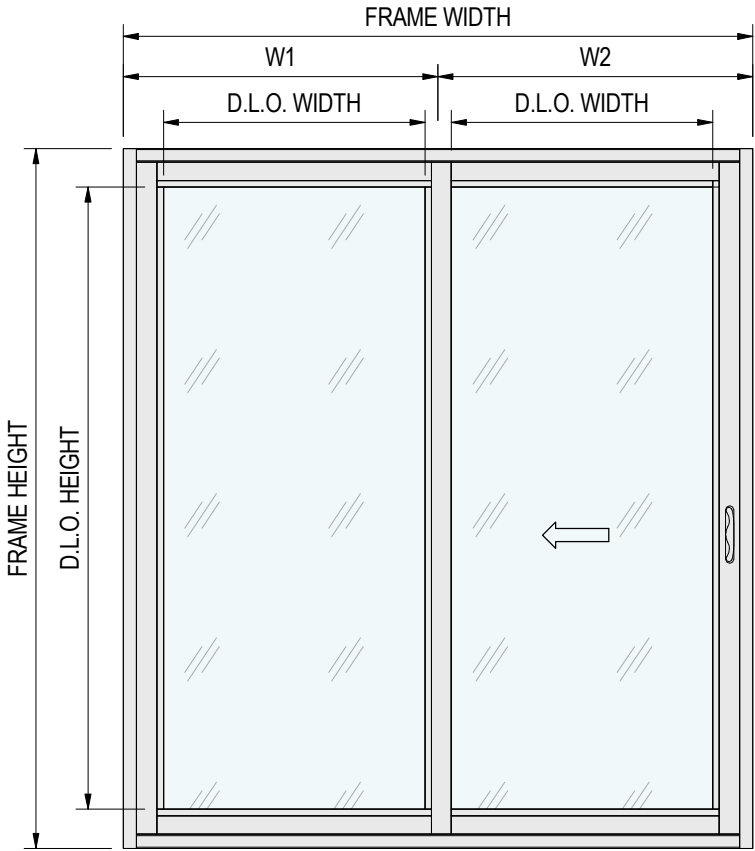
SEALED: 12/19/2024



1
105
GL 1 - LAMINATED GLASS UNIT
NOT TO SCALE



2
105
GL 2 - LAMINATED GLASS UNIT
NOT TO SCALE



FOR MULLION DESIGN PRESSURE CALCULATION-

TRIBUTARY WIDTH (W) FOR INTERMEDIATE,

$$W = \frac{W1+W2}{2}$$

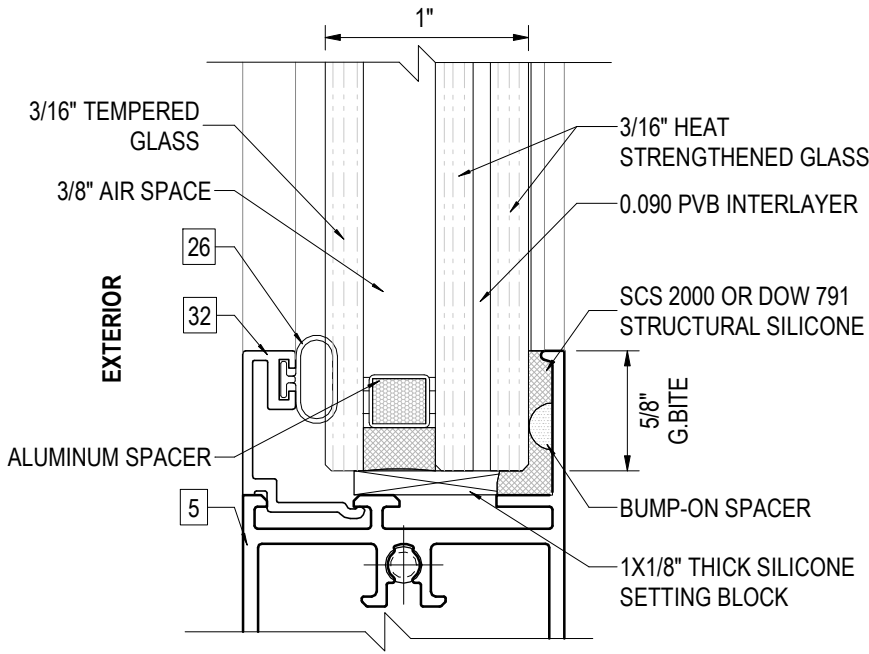
TRIBUTARY WIDTH (W) FOR JAMB MULLION,

$$W = \frac{W1}{2} \text{ OR } \frac{W2}{2}$$

FOR GLASS DESIGN PRESSURE CALCULATION -

D.L.O. HEIGHT = FRAME HEIGHT - 8.937"
D.L.O. WIDTH = LEAF WIDTH - 6.884"

FOR SYSTEMS WITH MULTIPLE D.L.O. WIDTHS,
THE LARGEST WIDTH SHALL GOVERN THE
DESIGN PRESSURES OF THE SYSTEM.



3
105
GL 3 - INSULATED GLASS UNIT
NOT TO SCALE



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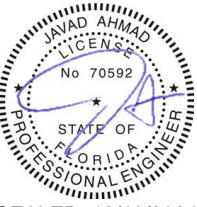
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ECO-NOVO SERIES: 775 SLIDING DOOR
SYSTEM
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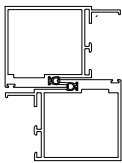


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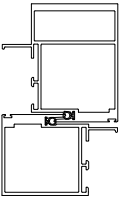
ALLOWABLE PRESSURE CAPACITY CHART FOR GLASS - PSF				
DIMENSIONS		DESIGN PRESSURE		
D.L.O. HEIGHT (IN.)	D.L.O. WIDTH (IN.)	GL - 1	GL - 2	GL - 3
111	43-1/4	+/- 60	+/- 60	+/- 60
105		+/- 60	+/- 60	+/- 60
99		+/- 60	+/- 60	+/- 60
93		+/- 60	+/- 60	+/- 60
87		+/- 60	+/- 60	+/- 60
81		+/- 60	+/- 60	+/- 60
75		+/- 60	+/- 60	+/- 60
69		+/- 60	+/- 60	+/- 60
63		+/- 60	+/- 60	+/- 60
111	36	+/- 60	+/- 60	+/- 60
105		+/- 60	+/- 60	+/- 60
99		+/- 60	+/- 60	+/- 60
93		+/- 60	+/- 60	+/- 60
87		+/- 60	+/- 60	+/- 60
81		+/- 60	+/- 60	+/- 60
75		+/- 60	+/- 60	+/- 60
69		+/- 60	+/- 60	+/- 60
63		+/- 60	+/- 60	+/- 60
111	30	+/- 60	+/- 60	+/- 60
105		+/- 60	+/- 60	+/- 60
99		+/- 60	+/- 60	+/- 60
93		+/- 60	+/- 60	+/- 60
87		+/- 60	+/- 60	+/- 60
81		+/- 60	+/- 60	+/- 60
75		+/- 60	+/- 60	+/- 60
69		+/- 60	+/- 60	+/- 60
63		+/- 60	+/- 60	+/- 60
111	24	+/- 60	+/- 60	+/- 60
105		+/- 60	+/- 60	+/- 60
99		+/- 60	+/- 60	+/- 60
93		+/- 60	+/- 60	+/- 60
87		+/- 60	+/- 60	+/- 60
81		+/- 60	+/- 60	+/- 60
75		+/- 60	+/- 60	+/- 60
69		+/- 60	+/- 60	+/- 60
63		+/- 60	+/- 60	+/- 60
111	18	+/- 60	+/- 60	+/- 60
105		+/- 60	+/- 60	+/- 60
99		+/- 60	+/- 60	+/- 60
93		+/- 60	+/- 60	+/- 60
87		+/- 60	+/- 60	+/- 60
81		+/- 60	+/- 60	+/- 60
75		+/- 60	+/- 60	+/- 60
69		+/- 60	+/- 60	+/- 60
63		+/- 60	+/- 60	+/- 60

NOTE:
PLEASE SEE SHEET 105 FOR D.L.O. WIDTH AND HEIGHT CALCULATION.
MAX. D.L.O. WIDTH = 43-1/4"
MAX. D.L.O. HEIGHT= 111-1/8"

ALLOWABLE PRESSURE CAPACITY CHART FOR MULLIONS - PSF						
DIMENSIONS		DESIGN PRESSURE				
FRAME HEIGHT (IN.)	TRIBUTARY WIDTH (IN.)	ASTRAGAL		INTERLOCK		
		AST-1	AST-2	IL-1	IL-2	IL-2R
120	48	-	+/- 60	-	-	+/- 60
114		-	+/- 60	-	-	+/- 60
108		-	+/- 60	-	+/- 60	+/- 60
102		-	+/- 60	-	+/- 60	+/- 60
96		+55/-60	+/- 60	+55/-60	+/- 60	+/- 60
90		+55/-60	+/- 60	+55/-60	+/- 60	+/- 60
84		+55/-60	+/- 60	+55/-60	+/- 60	+/- 60
78		+55/-60	+/- 60	+55/-60	+/- 60	+/- 60
72		+55/-60	+/- 60	+55/-60	+/- 60	+/- 60
120	42	-	+/- 60	-	+/- 60	+/- 60
114		-	+/- 60	-	+/- 60	+/- 60
108		+55/-60	+/- 60	+55/-60	+/- 60	+/- 60
102		+55/-60	+/- 60	+55/-60	+/- 60	+/- 60
96		+55/-60	+/- 60	+55/-60	+/- 60	+/- 60
90		+55/-60	+/- 60	+55/-60	+/- 60	+/- 60
84		+55/-60	+/- 60	+55/-60	+/- 60	+/- 60
78		+55/-60	+/- 60	+55/-60	+/- 60	+/- 60
72		+55/-60	+/- 60	+55/-60	+/- 60	+/- 60
120	36	+55/-60	+/- 60	+55/-60	+/- 60	+/- 60
114		+55/-60	+/- 60	+55/-60	+/- 60	+/- 60
108		+55/-60	+/- 60	+55/-60	+/- 60	+/- 60
102		+55/-60	+/- 60	+55/-60	+/- 60	+/- 60
96		+55/-60	+/- 60	+55/-60	+/- 60	+/- 60
90		+55/-60	+/- 60	+55/-60	+/- 60	+/- 60
84		+55/-60	+/- 60	+55/-60	+/- 60	+/- 60
78		+55/-60	+/- 60	+55/-60	+/- 60	+/- 60
72		+55/-60	+/- 60	+55/-60	+/- 60	+/- 60
120	30	+55/-60	+/- 60	+55/-60	+/- 60	+/- 60
114		+55/-60	+/- 60	+55/-60	+/- 60	+/- 60
108		+55/-60	+/- 60	+55/-60	+/- 60	+/- 60
102		+55/-60	+/- 60	+55/-60	+/- 60	+/- 60
96		+55/-60	+/- 60	+55/-60	+/- 60	+/- 60
90		+55/-60	+/- 60	+55/-60	+/- 60	+/- 60
84		+55/-60	+/- 60	+55/-60	+/- 60	+/- 60
78		+55/-60	+/- 60	+55/-60	+/- 60	+/- 60
72		+55/-60	+/- 60	+55/-60	+/- 60	+/- 60
120	24	+55/-60	+/- 60	+55/-60	+/- 60	+/- 60
114		+55/-60	+/- 60	+55/-60	+/- 60	+/- 60
108		+55/-60	+/- 60	+55/-60	+/- 60	+/- 60
102		+55/-60	+/- 60	+55/-60	+/- 60	+/- 60
96		+55/-60	+/- 60	+55/-60	+/- 60	+/- 60
90		+55/-60	+/- 60	+55/-60	+/- 60	+/- 60
84		+55/-60	+/- 60	+55/-60	+/- 60	+/- 60
78		+55/-60	+/- 60	+55/-60	+/- 60	+/- 60
72		+55/-60	+/- 60	+55/-60	+/- 60	+/- 60



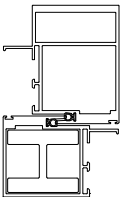
IL-1



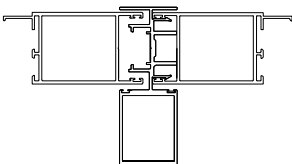
IL-2



AST-1



IL - 2R



AST - 2



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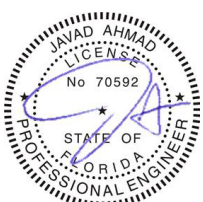
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ECO-NOVO SERIES: 775 SLIDING DOOR SYSTEM (LARGE AND SMALL MISSILE IMPACT RATED)

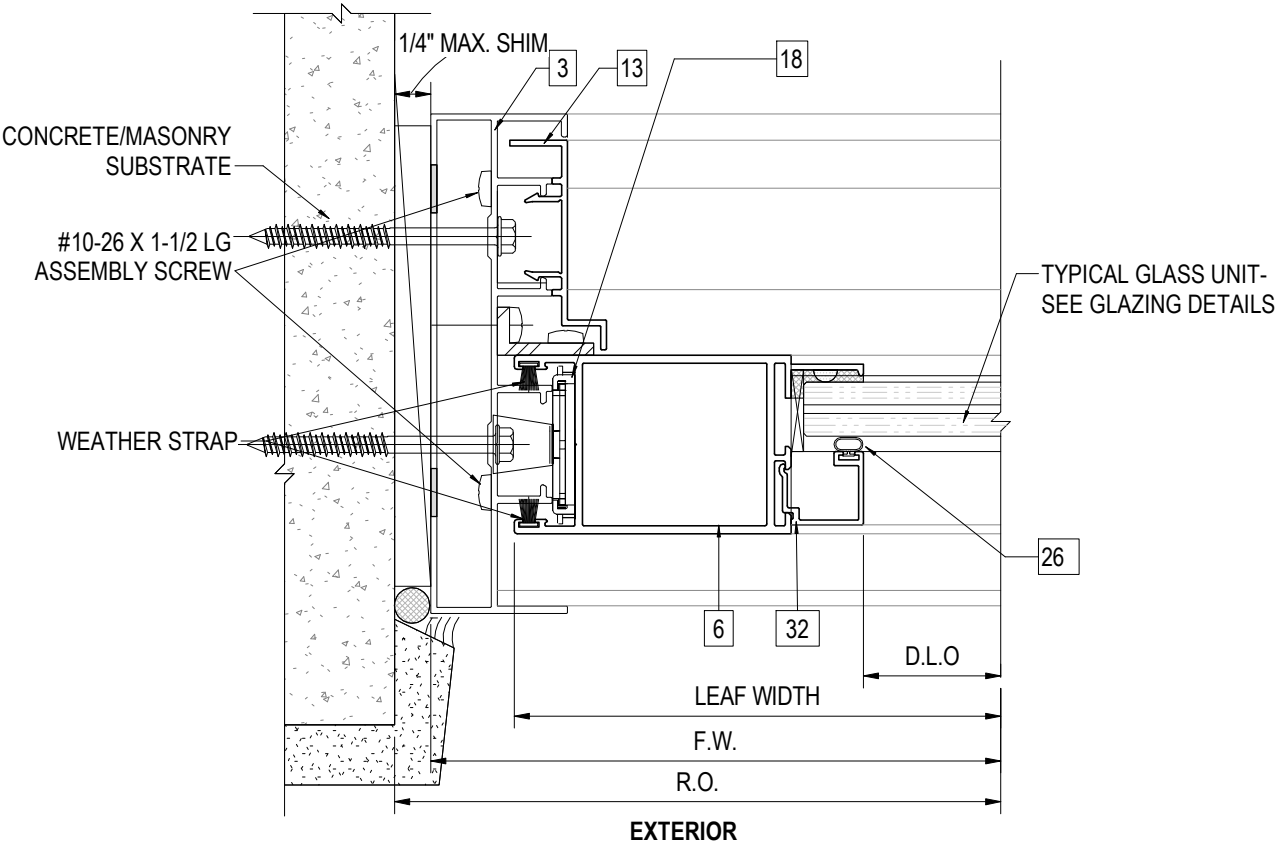
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REVISION

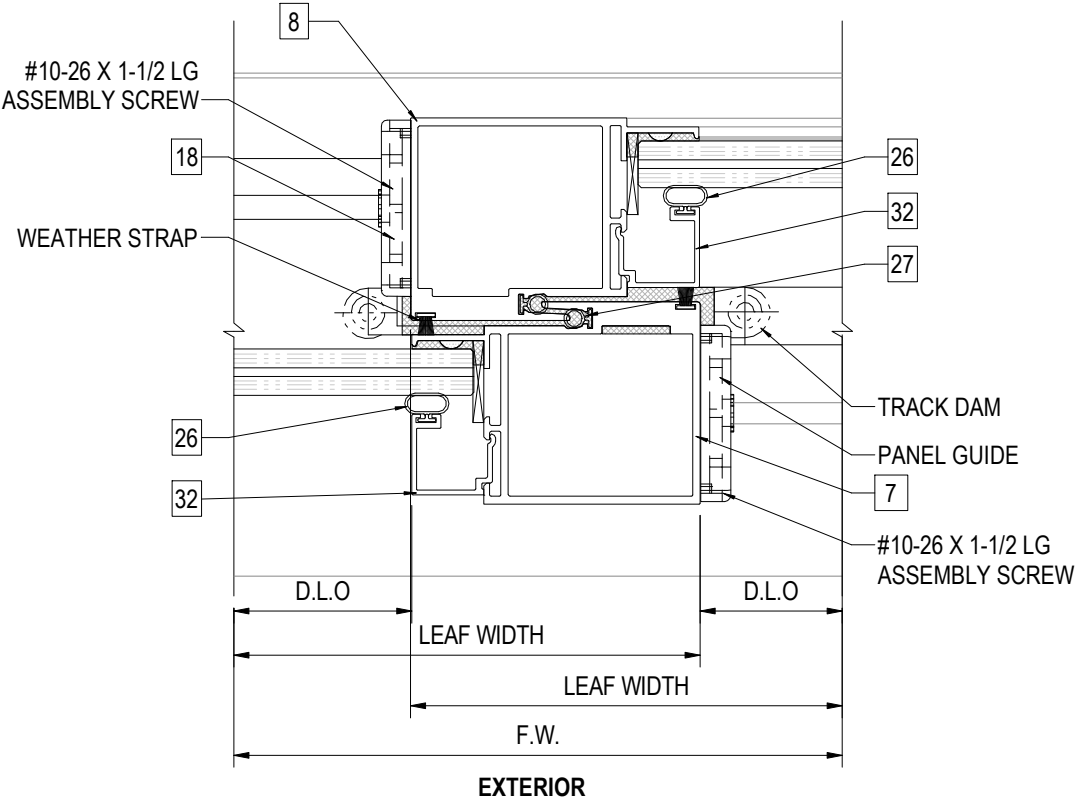
No.	DATE	BY	DESCRIPTION



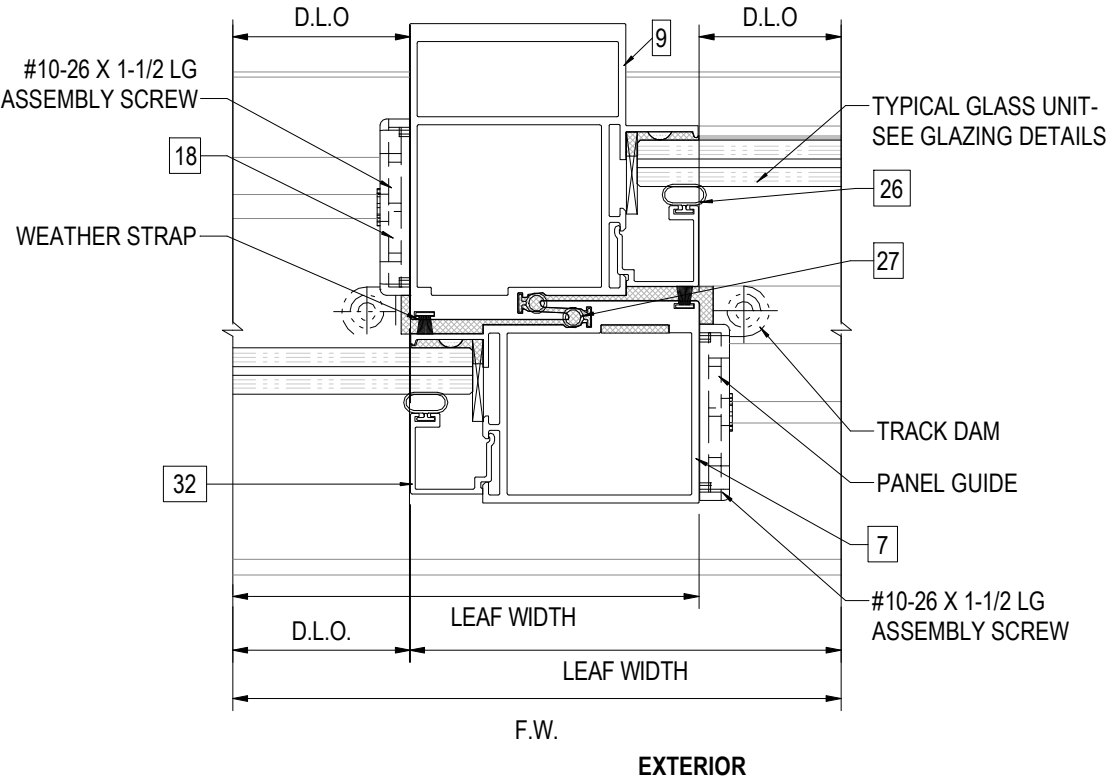
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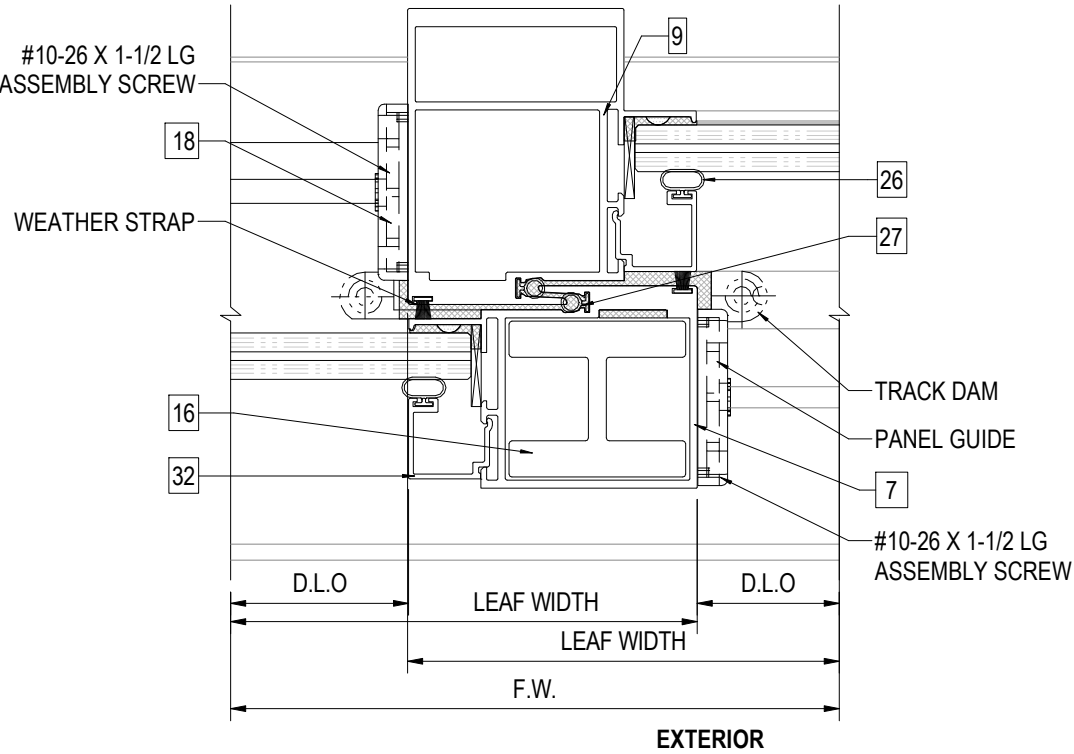
1
107
DOOR JAMB DETAIL - TWO TRACK
NOT TO SCALE



2
107
DOOR INTERLOCK DETAIL (IL - 1)
NOT TO SCALE



3
107
DOOR REINFORCED INTERLOCK DETAIL (IL-2)
NOT TO SCALE



4
107
DOOR REINFORCED INTERLOCK DETAIL (IL-2R)
NOT TO SCALE



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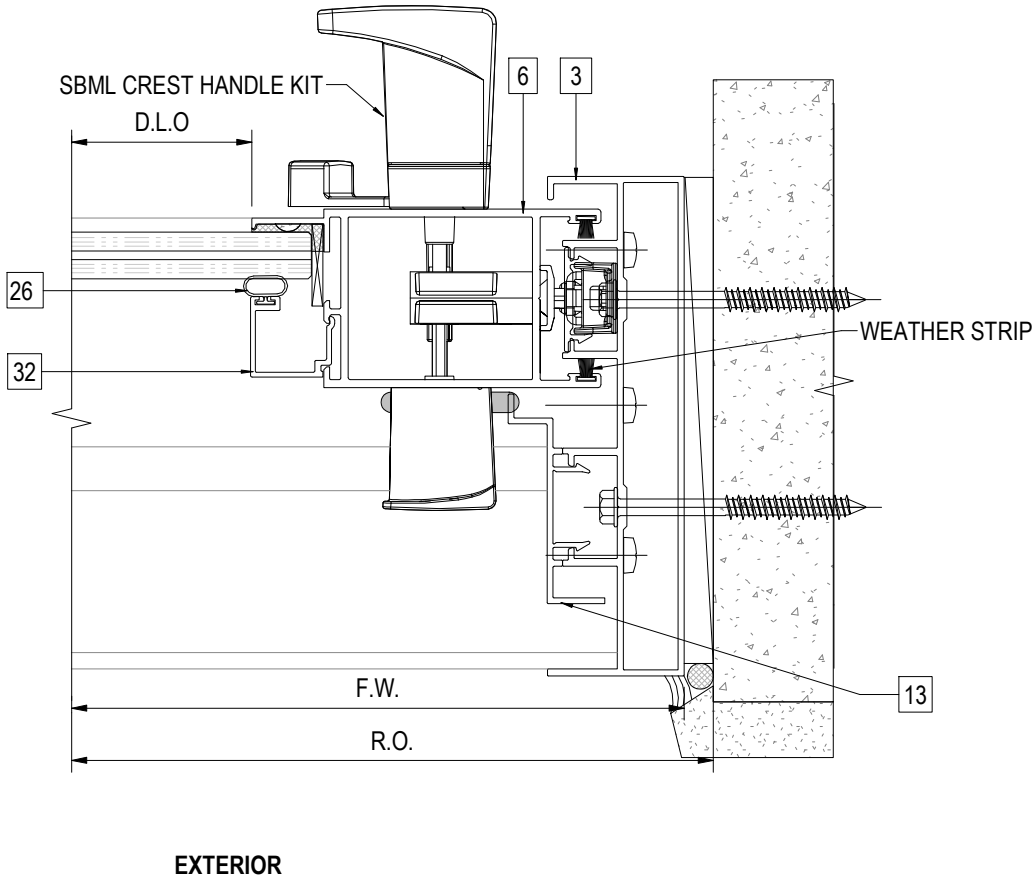
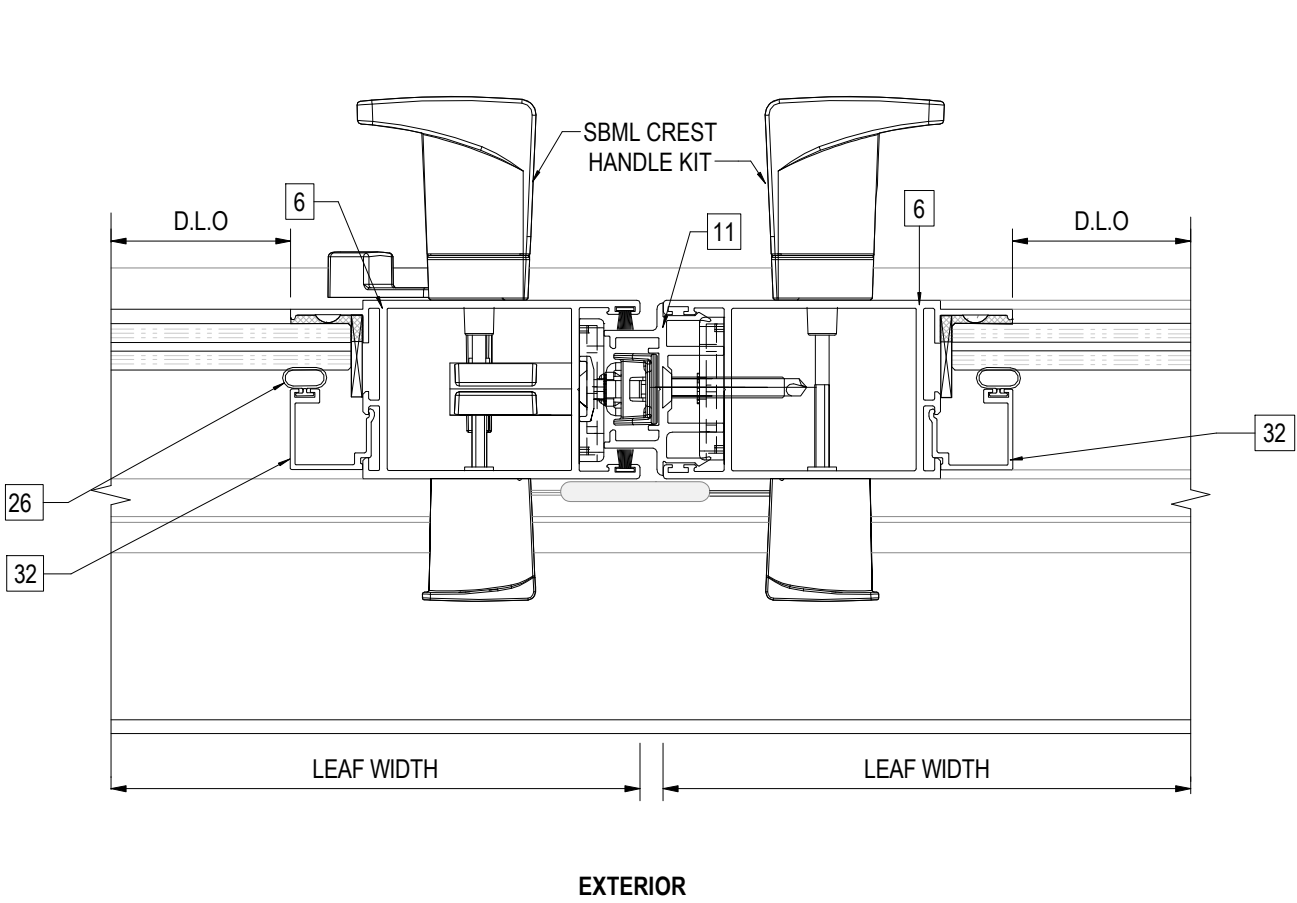


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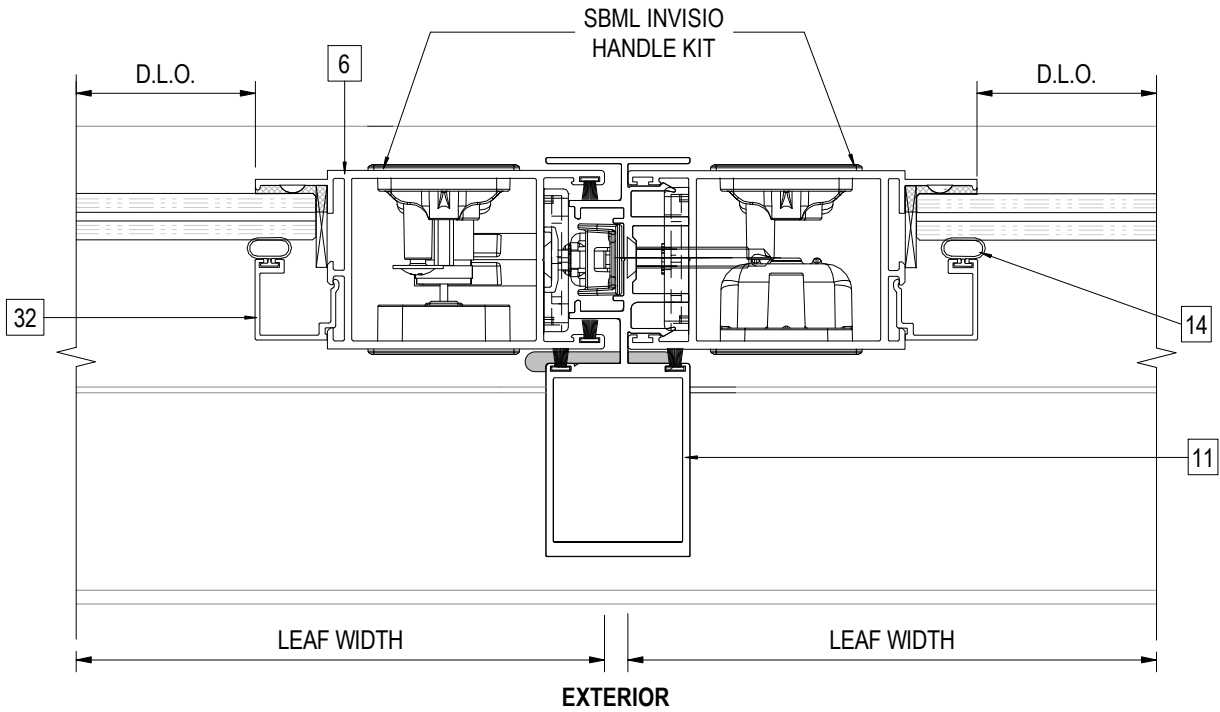
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1 STANDARD ASTRAGAL DETAIL (AST - 1)
NOT TO SCALE

2 TYPICAL LOCKING JAMB DETAIL-2 TRACK
NOT TO SCALE



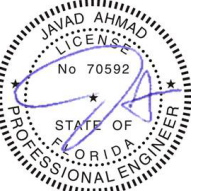
3 REINFORCED ASTRAGAL DETAIL (AST -2)
NOT TO SCALE

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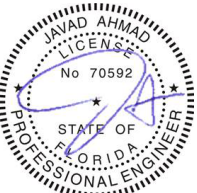
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date:	12-19-2024			BY	
No.					

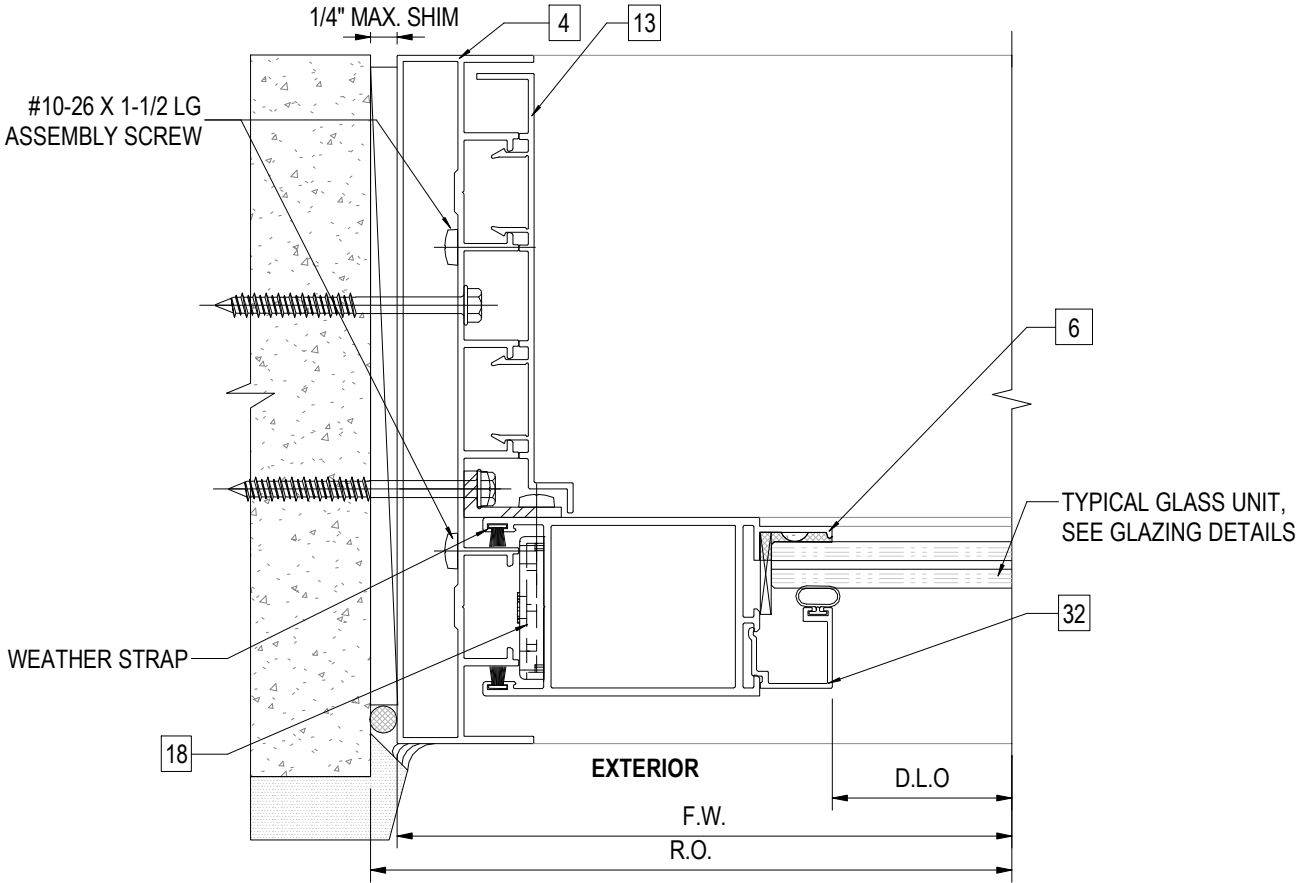
ECO-NOVO SERIES: 775 SLIDING DOOR
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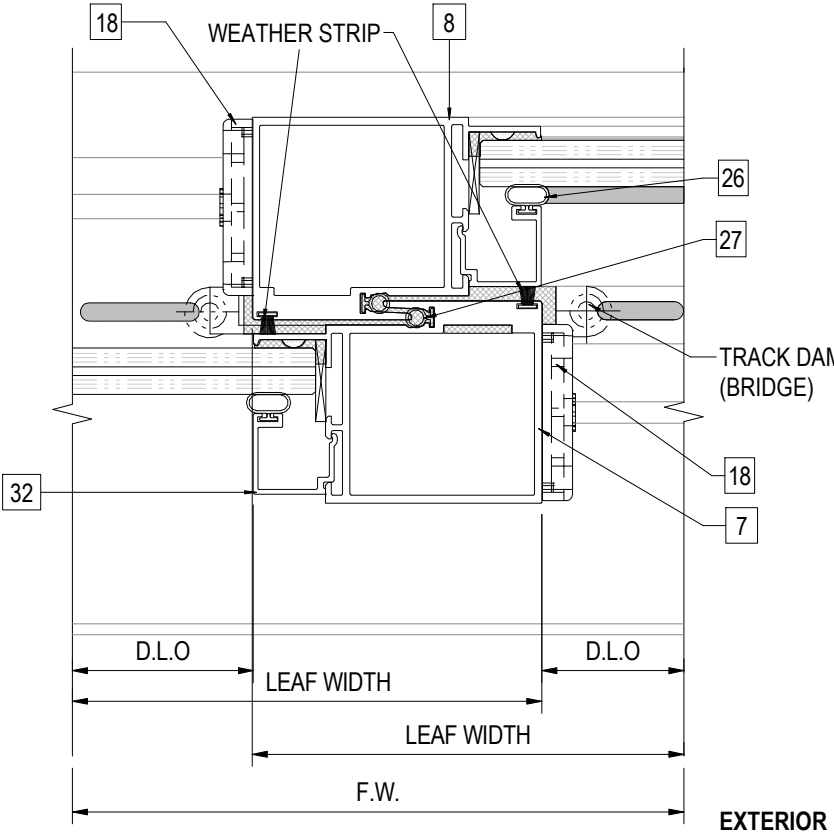
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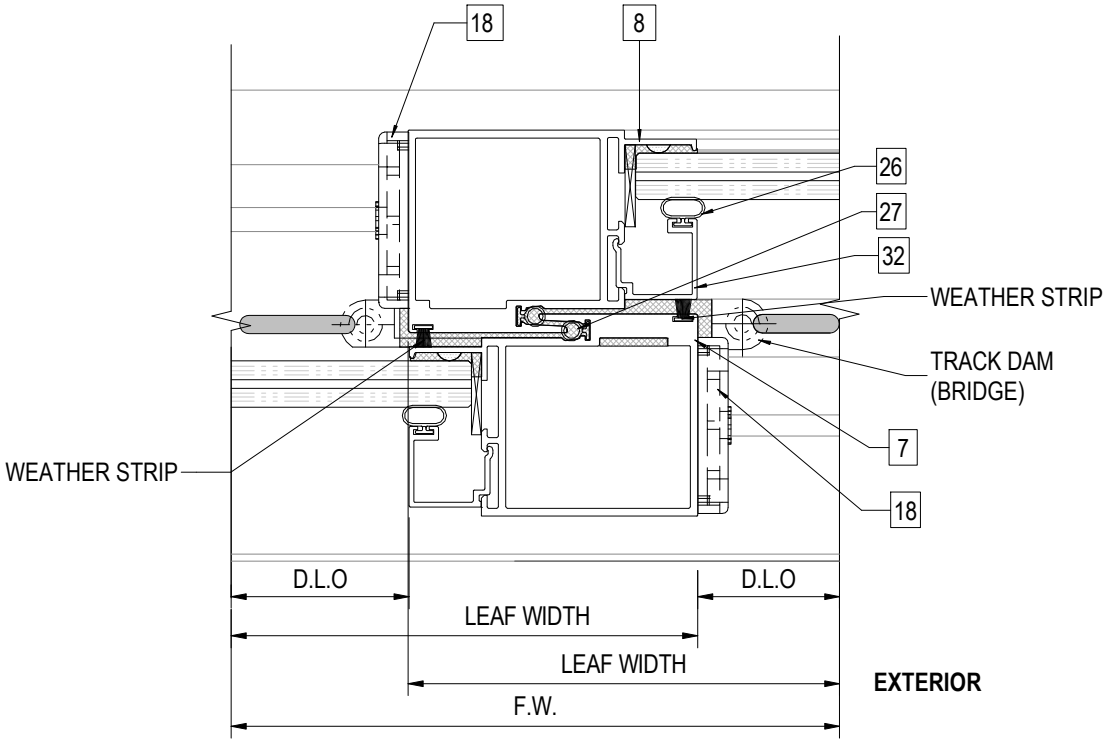
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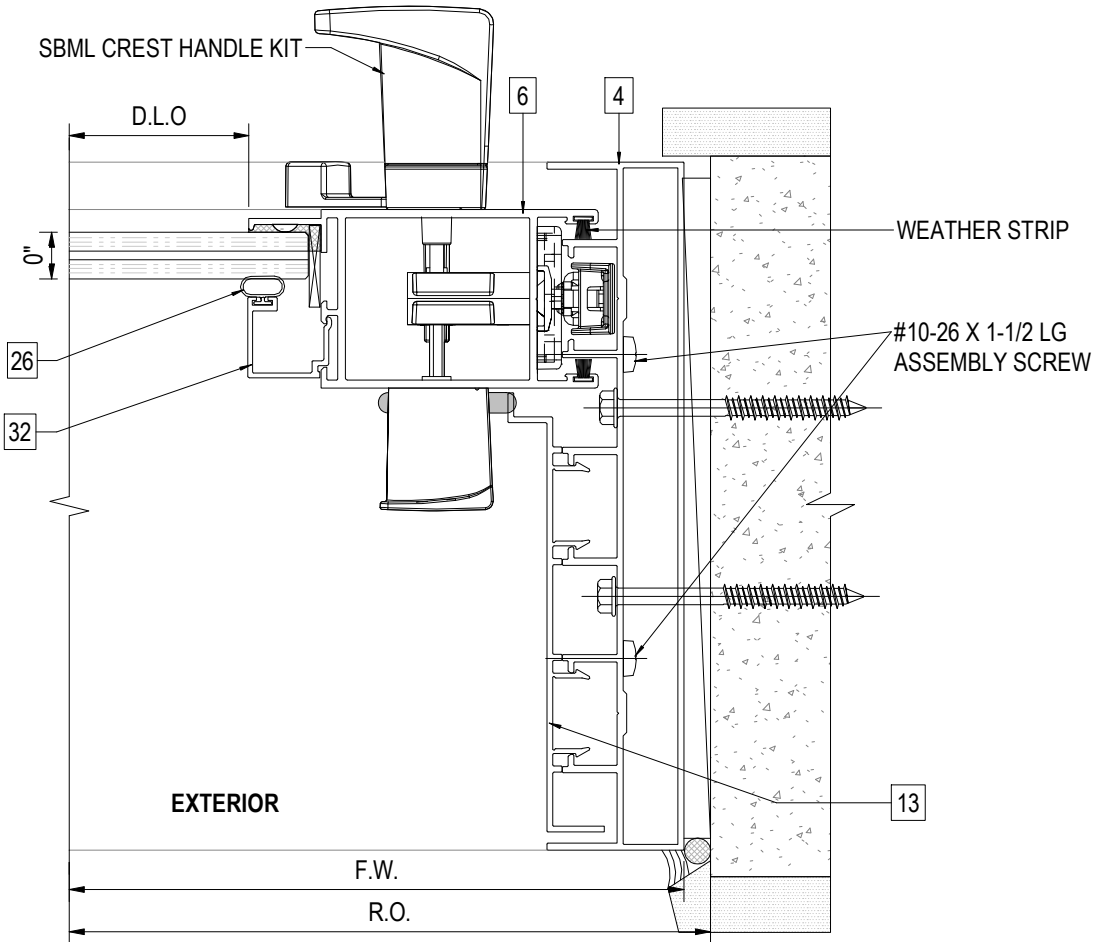
1 JAMB STILE DETAIL - 3 TRACK
109 NOT TO SCALE



3 INTELOCK DETAIL - 3 TRACK 2
109 NOT TO SCALE



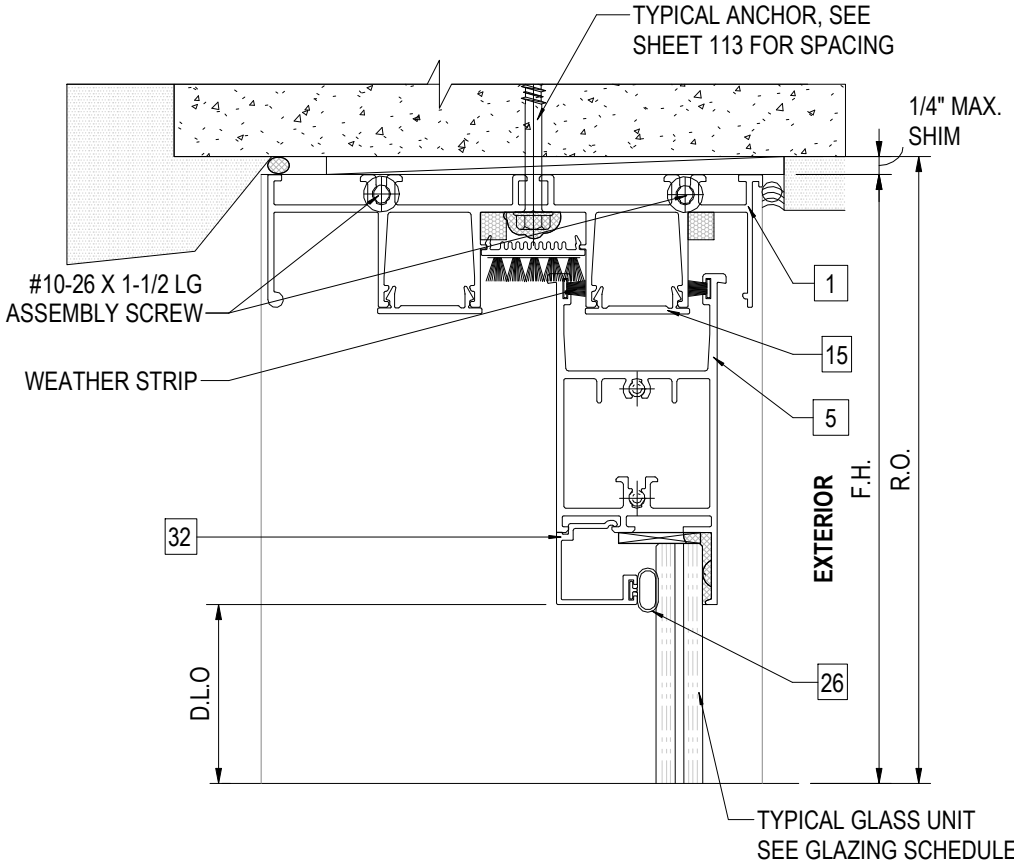
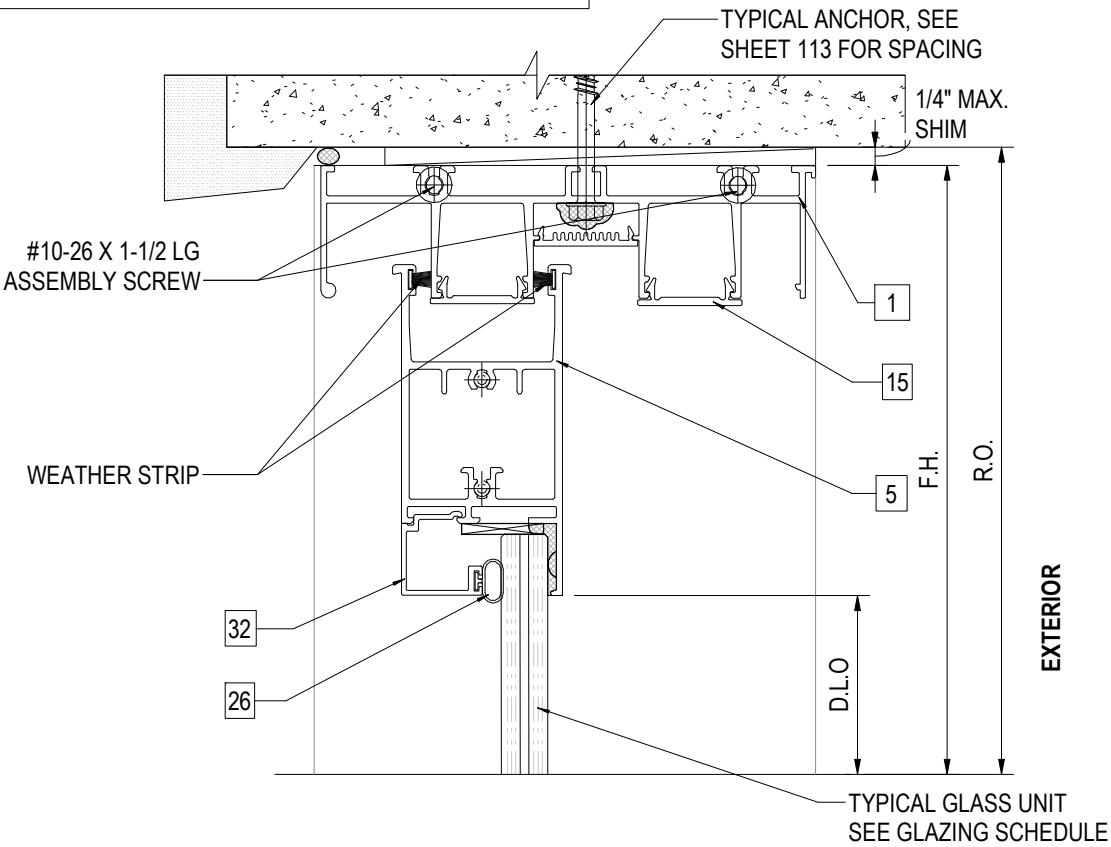
2 INTERLOCK DETAIL - 3 TRACK 1
109 NOT TO SCALE



4 LOCK STILE DETAIL - 3 TRACK
109 NOT TO SCALE

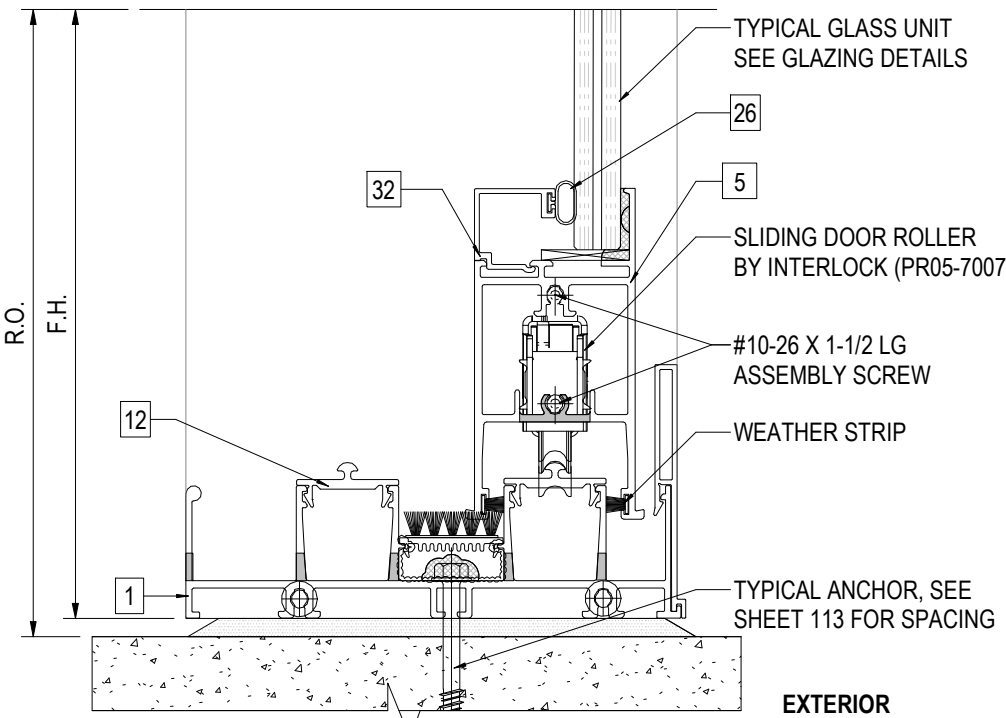
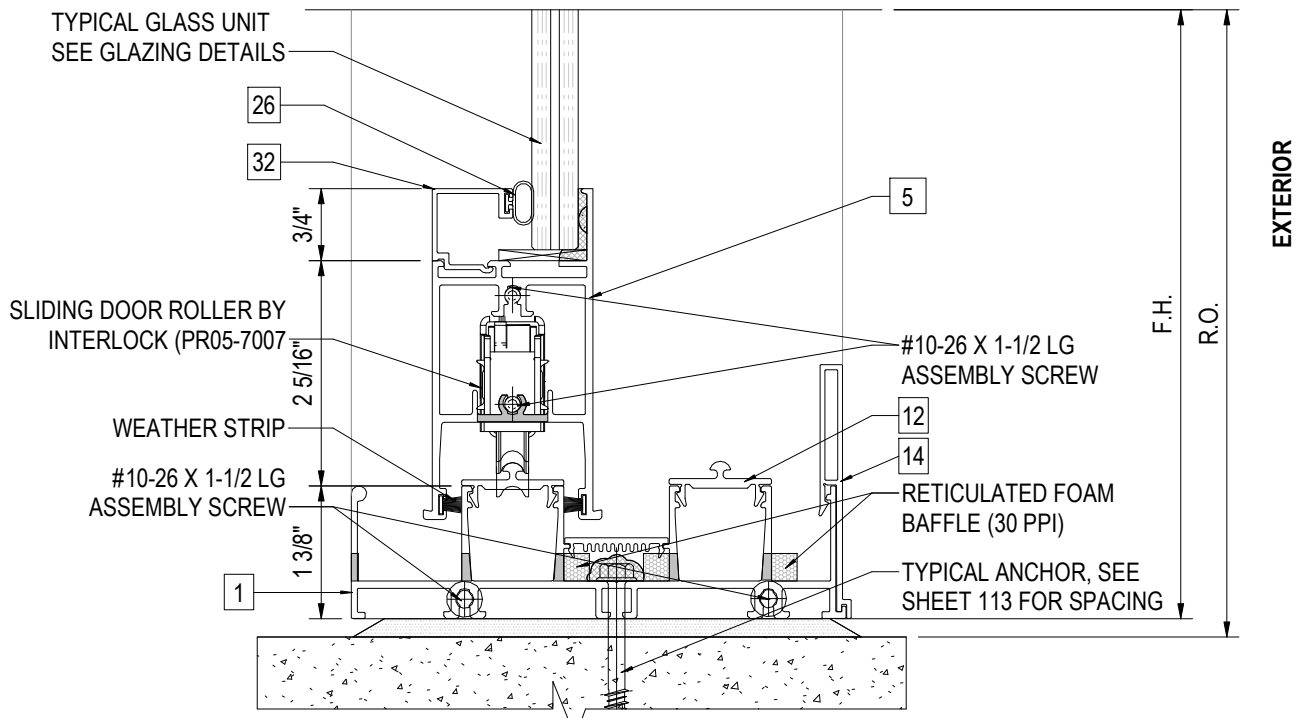
SECTIONAL DETAILS- VERTICAL

FL# 47220



1 DOOR HEAD DETAIL - 2 TRACK (INACTIVE)
NOT TO SCALE

2 DOOR HEAD DETAIL- 2 TRACK (ACTIVE)
NOT TO SCALE



3 DOOR SILL DETAIL - 2 TRACK (INACTIVE)
NOT TO SCALE

4 DOOR SILL DETAIL - 2 TRACK (ACTIVE)
NOT TO SCALE



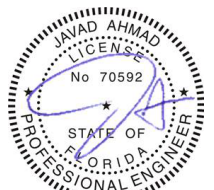
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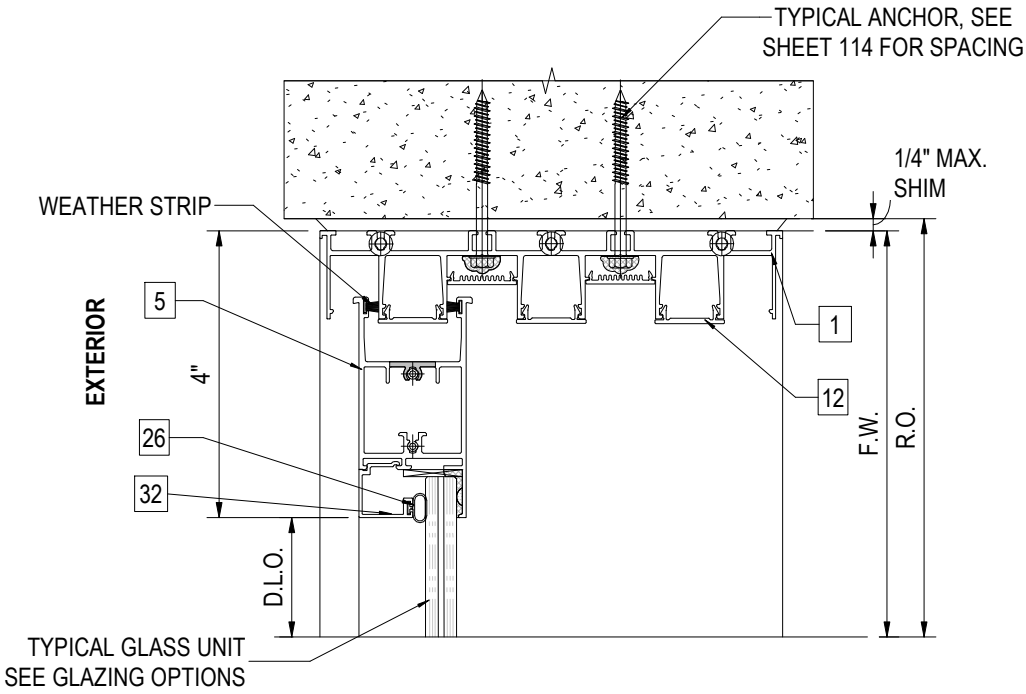


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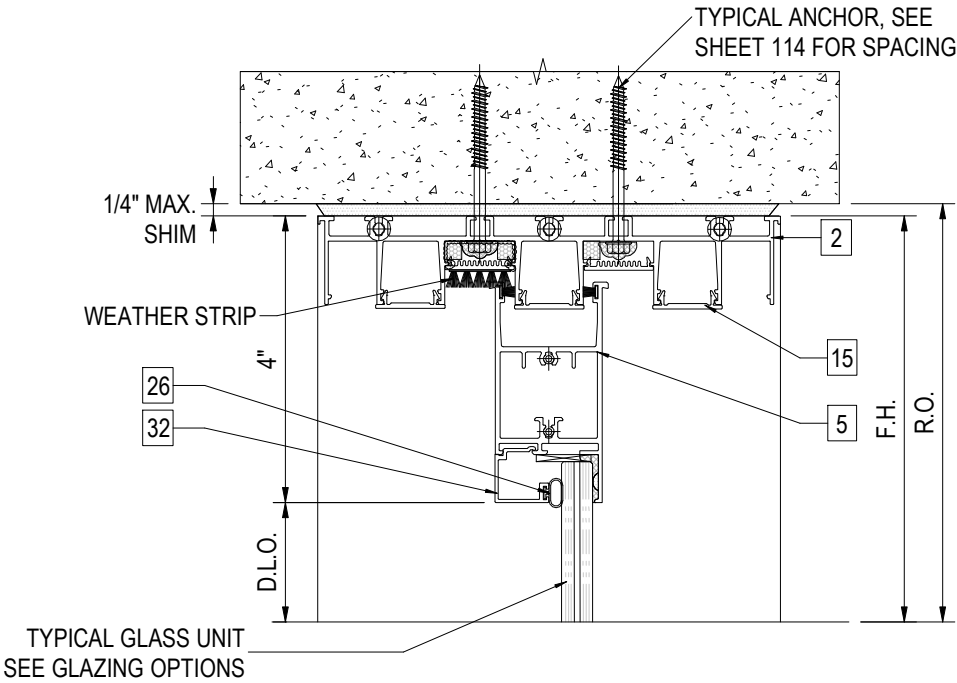


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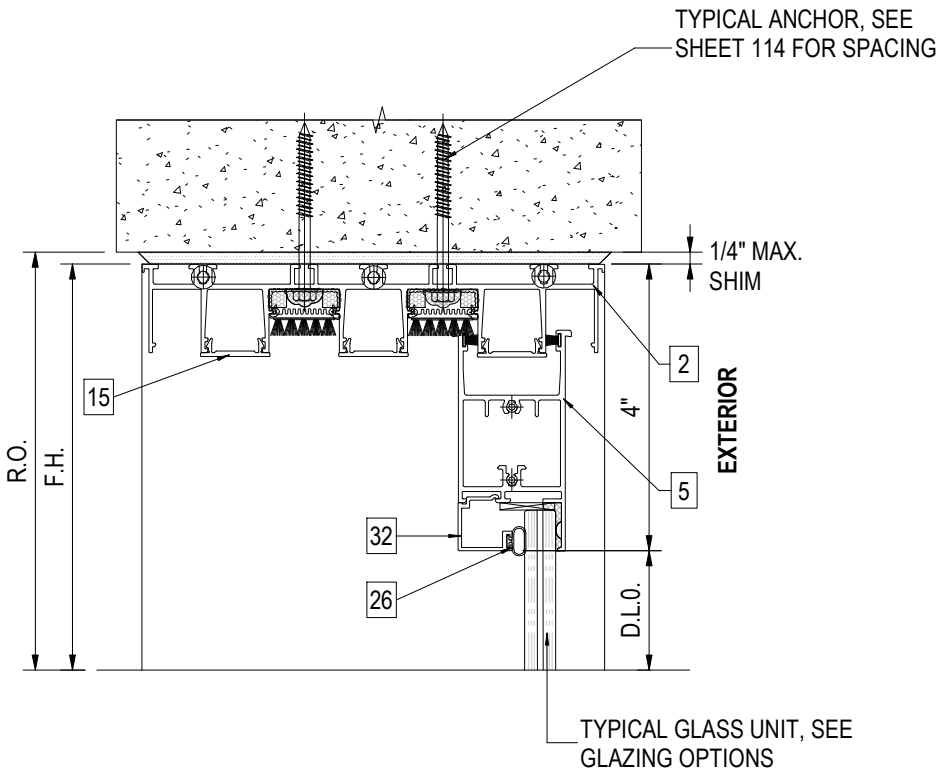
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1 HEAD DETAILS - 3 TRACK - 1
111 NOT TO SCALE



2 HEAD DETAILS - 3 TRACK - 2
111 NOT TO SCALE



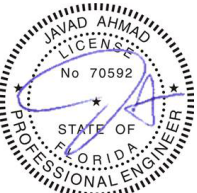
3 HEAD DETAILS - 3 TRACK - 3
111 NOT TO SCALE

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MK	check by:			MK	check by:		

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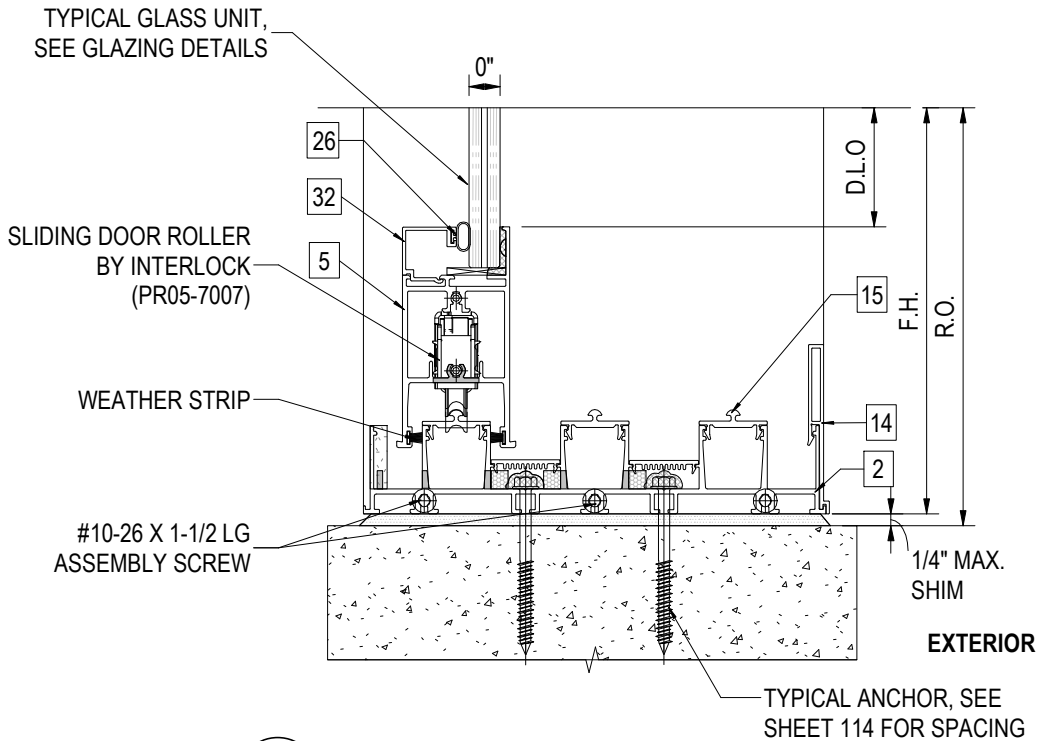
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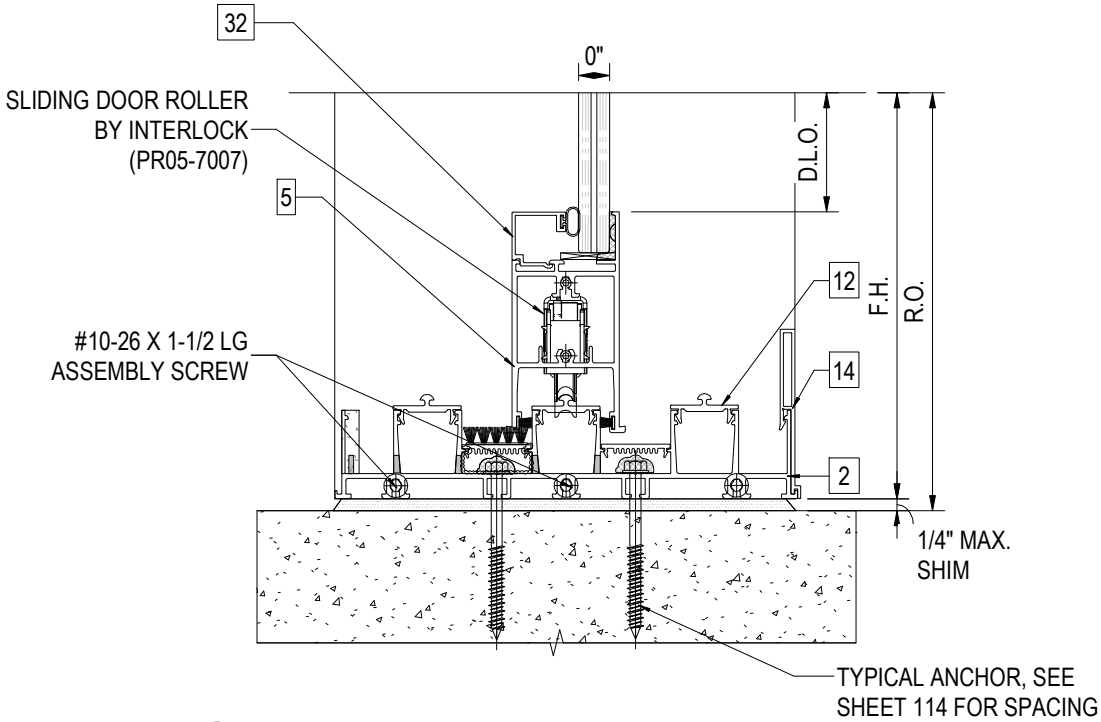
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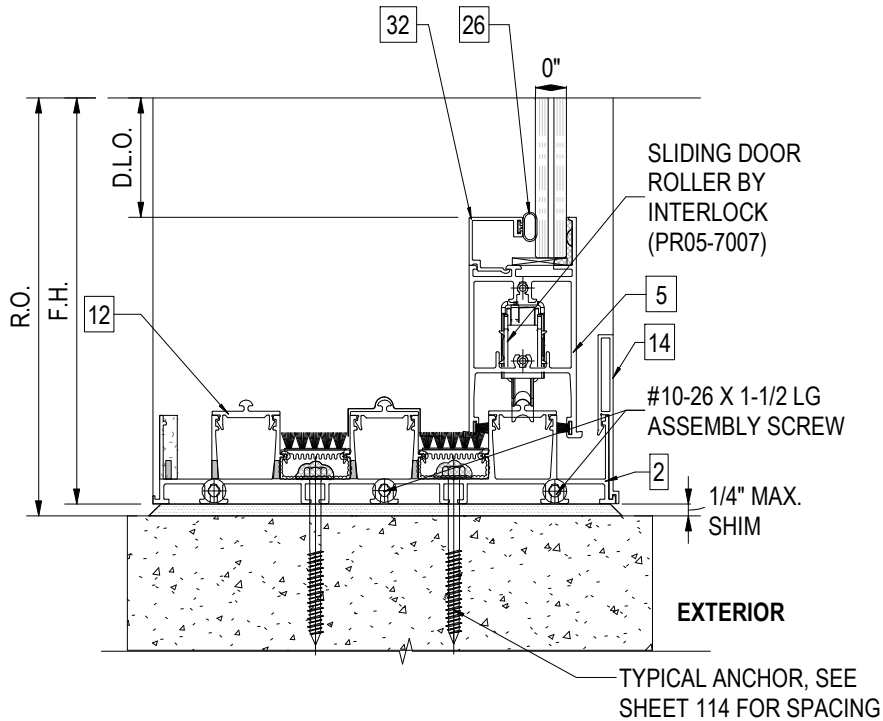
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1
112 SILL DETAILS - 3 TRACK - 1
NOT TO SCALE



2
112 SILL DETAILS - 3 TRACK - 2
NOT TO SCALE

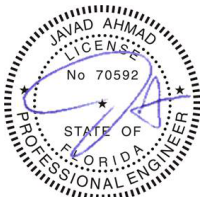


3
112 SILL DETAILS - 3 TRACK - 3
NOT TO SCALE

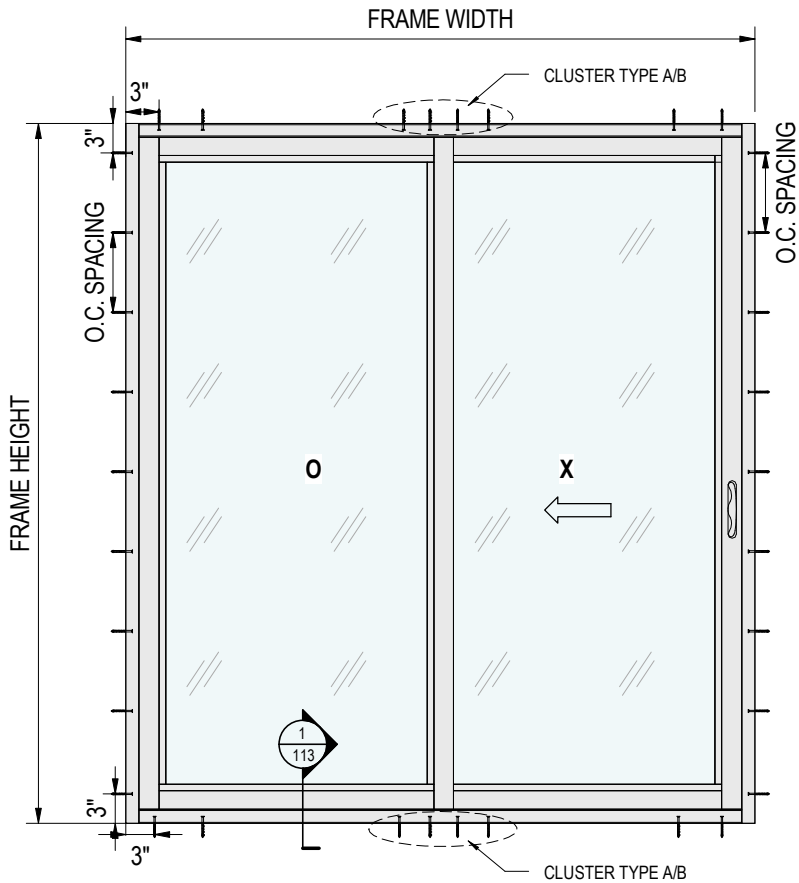
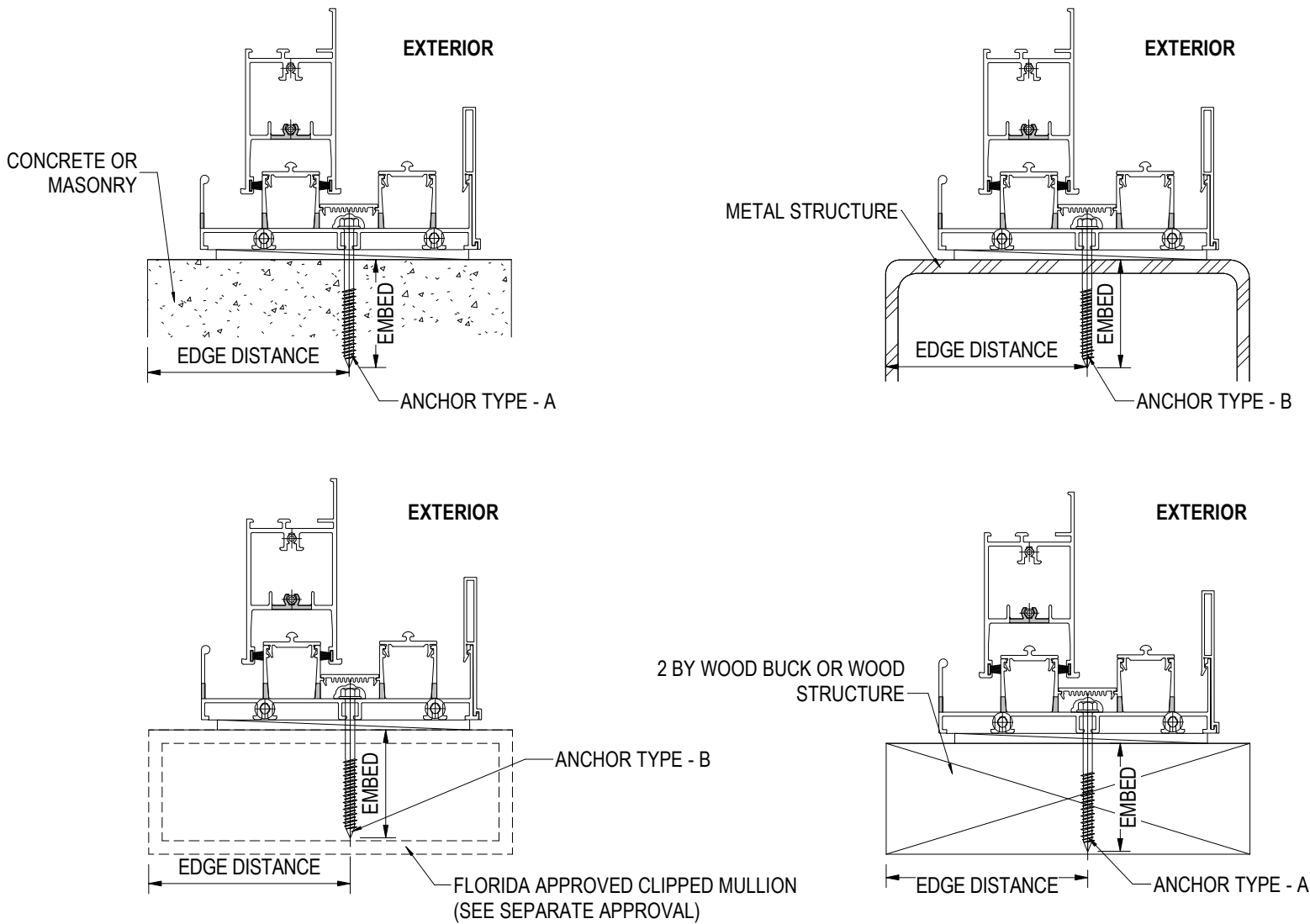
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1 ANCHORAGE IN DIFFERENT SUBSTRATES
113 NOT TO SCALE

2 TYPICAL ANCHORAGE LAYOUT - TWO TRACK
113 NOT TO SCALE

TYPICAL ANCHOR TYPES:
(APPLIES TO ALL ANCHORS GOING THROUGH THE DOOR FRAME):

- TYPE A - 1/4" DEWALT ULTRACON+ (Fu = 177,000 PSI, Fy = 155,000 PSI)**
- INTO 2BY WOOD WITH 1-1/2" MIN PENETRATION, AND 1-3/4" MIN EDGE DISTANCE
 - THRU 1BY WOOD INTO CONCRETE OR GROUT FILLED MASONRY WITH 1-3/4" EMBEDMENT, 1-1/2" MIN EDGE DISTANCE, AND 14" O.C. SPACING
 - THRU 1BY WOOD INTO HOLLOW MASONRY WITH 1-1/4" EMBEDMENT, 1-1/2" MIN EDGE DISTANCE, AND 14" O.C. SPACING
 - DIRECTLY INTO CONCRETE OR GROUT FILLED MASONRY WITH 1-3/4" EMBEDMENT, 2-1/2" MIN EDGE DISTANCE AND 14" O.C. SPACING
 - DIRECTLY INTO HOLLOW MASONRY WITH 1-1/4" EMBEDMENT, 2-1/2" MIN EDGE DISTANCE, AND 14" O.C. SPACING

- TYPE B - 1/4-20 SS SCREWS (GRADE 5 MIN)**
- INTO 1/8" MIN. THK. ALUMINUM / STEEL WITH (3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS, AND 3/4" MIN EDGE DISTANCE AND 14" O.C. SPACING
 - INTO MIN. 1/8" THK. APPROVED MULLIONS WITH (3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS, AND 3/4" MIN EDGE DISTANCE AND 14" O.C. SPACING

CLUSTER TYPE A: PROVIDE CLUSTER OF (4) TYPE A/B ANCHORS AS PER LAYOUT ON SHEET 102-104 AS PER THE SUBSTRATE.
CLUSTER TYPE B: PROVIDE CLUSTER OF (6) TYPE A ANCHORS AS PER LAYOUT ON SHEET 102-104 IN HOLLOW/ GFCMU SUBSTRATE.

- ANCHOR / SUBSTRATE NOTES:**
- WOOD AT HEAD OR JAMBS IS SOUTHERN YELLOW PINE #2 (SG=0.55 MIN.)
 - CONCRETE AT HEAD OR JAMBS f'c= 3000 PSI
 - C-90 HOLLOW/GROUT FILLED MASONRY UNITS AT JAMBS f'M= 2000 PSI
 - STEEL (1/8" THK., A36 MIN) AT HEAD OR JAMBS
 - ALUMINUM (1/8" THK., 6063-T6 MIN) AT HEAD OR JAMBS
 - STEEL IN CONTACT WITH ALUMINUM TO BE PAINTED

NOTE:
THE WOOD BUCKS, CONCRETE AND METAL STRUCTURE SHOWN ON THIS SHEET SHALL BE DESIGNED BY OTHERS AND ARE NOT PART OF THIS APPROVAL. THEY MUST BE CAPABLE OF WITHSTANDING THE LOADS IMPOSED BY THE GLAZING SYSTEM AND TRANSFERRING THEM TO THE BUILDING STRUCTURE.

SEALANTS:
ALL JOINTS AND FRAME CONNECTIONS SHALL BE SEALED WITH ALUMINUM COLOR SEALANT.



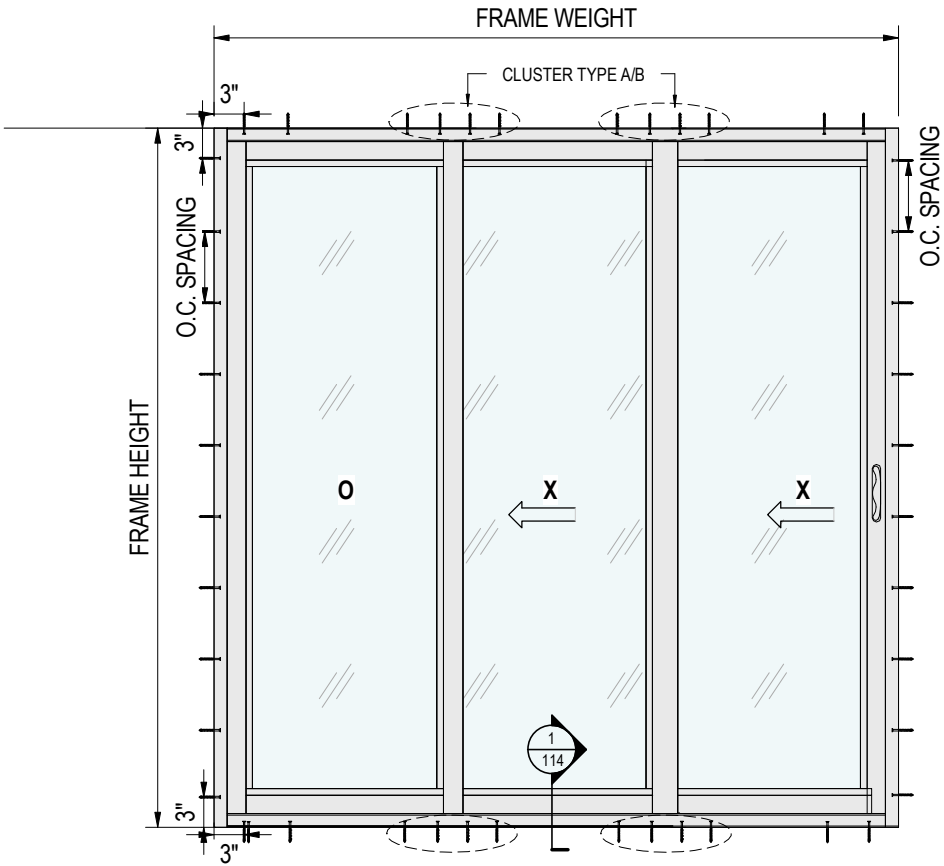
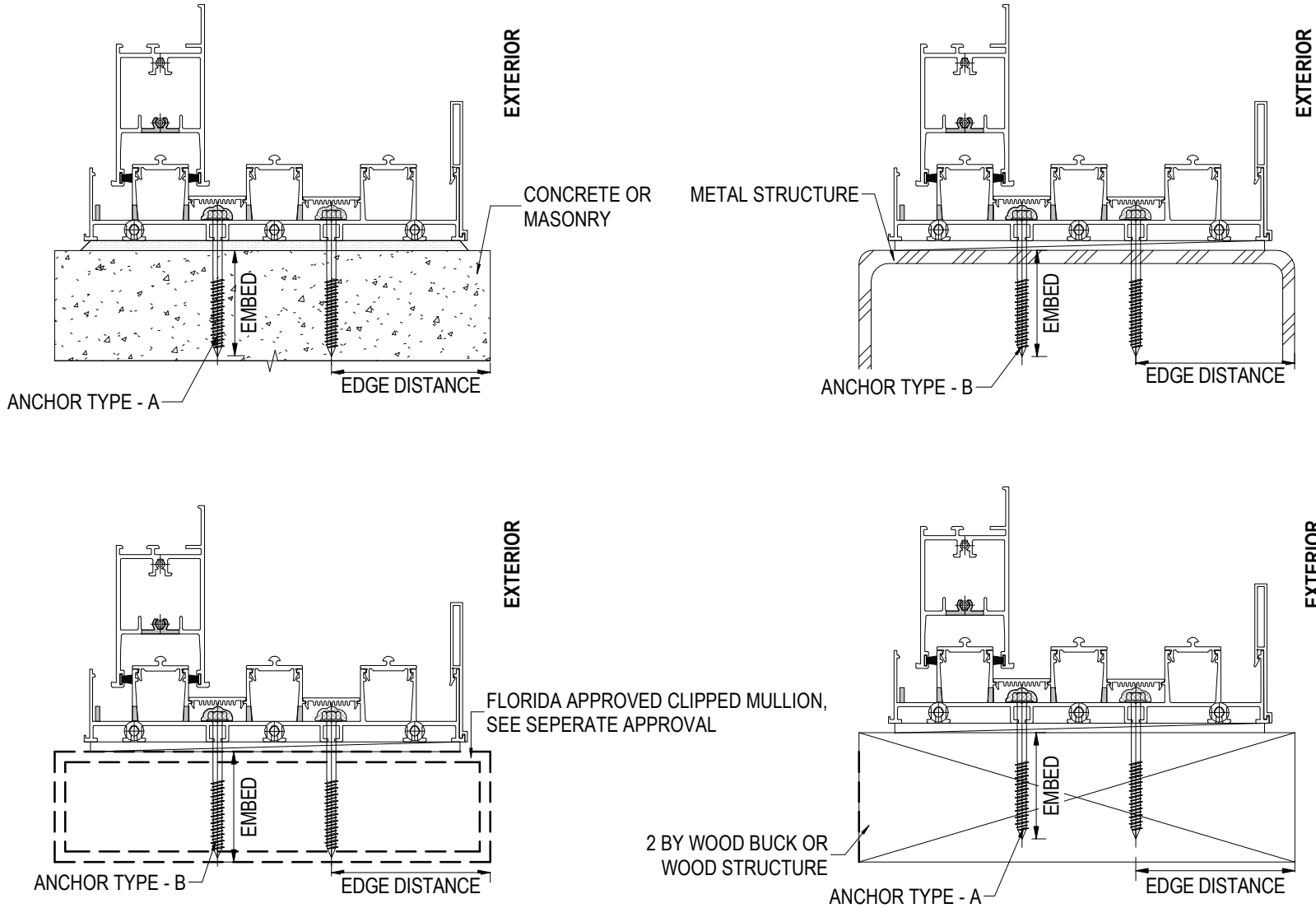
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1 ANCHORAGE IN DIFFERENT SUBSTRATES - THREE TRACK
114 NOT TO SCALE

2 TYPICAL ANCHORAGE LAYOUT - THREE TRACK
114 NOT TO SCALE

- TYPICAL ANCHOR TYPES:**
(APPLIES TO ALL ANCHORS GOING THROUGH THE DOOR FRAME):
- TYPE A - 1/4" DEWALT ULTRACON+ (Fu = 177,000 PSI, Fy = 155,000 PSI)**
- INTO 2BY WOOD WITH 1-1/2" MIN PENETRATION, AND 1-3/4" MIN EDGE DISTANCE
 - THRU 1BY WOOD INTO CONCRETE OR GROUT FILLED MASONRY WITH 1-3/4" EMBEDMENT, 1-1/2" MIN EDGE DISTANCE, AND 14" O.C. SPACING
 - THRU 1BY WOOD INTO HOLLOW MASONRY WITH 1-1/4" EMBEDMENT, 1-1/2" MIN EDGE DISTANCE, AND 14" O.C. SPACING
 - DIRECTLY INTO CONCRETE OR GROUT FILLED MASONRY WITH 1-3/4" EMBEDMENT, 2-1/2" MIN EDGE DISTANCE AND 14" O.C. SPACING
 - DIRECTLY INTO HOLLOW MASONRY WITH 1-1/4" EMBEDMENT, 2-1/2" MIN EDGE DISTANCE, AND 14" O.C. SPACING
- TYPE B - 1/4-20 SS SCREWS (GRADE 5 MIN)**
- INTO 1/8" MIN. THK. ALUMINUM / STEEL WITH (3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS, AND 3/4" MIN EDGE DISTANCE AND 14" O.C. SPACING
 - INTO MIN. 1/8" THK. APPROVED MULLIONS WITH (3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS, AND 3/4" MIN EDGE DISTANCE AND 14" O.C. SPACING

CLUSTER TYPE A: PROVIDE CLUSTER OF (4) TYPE A/B ANCHORS AS PER LAYOUT ON SHEET 102-104 AS PER THE SUBSTRATE.
CLUSTER TYPE B: PROVIDE CLUSTER OF (6) TYPE A ANCHORS AS PER LAYOUT ON SHEET 102-104 IN HOLLOW/ GFCMU SUBSTRATE.

- ANCHOR / SUBSTRATE NOTES:**
- WOOD AT HEAD OR JAMBS IS SOUTHERN YELLOW PINE #2 (SG=0.55 MIN.)
 - CONCRETE AT HEAD OR JAMBS f'c= 3000 PSI
 - C-90 HOLLOW/GROUT FILLED MASONRY UNITS AT JAMBS f'm= 2000 PSI
 - STEEL (1/8" THK., A36 MIN) AT HEAD OR JAMBS
 - ALUMINUM (1/8" THK., 6063-T6 MIN) AT HEAD OR JAMBS
 - STEEL IN CONTACT WITH ALUMINUM TO BE PAINTED

NOTE:
THE WOOD BUCKS, CONCRETE AND METAL STRUCTURE SHOWN ON THIS SHEET SHALL BE DESIGNED BY OTHERS AND ARE NOT PART OF THIS APPROVAL. THEY MUST BE CAPABLE OF WITHSTANDING THE LOADS IMPOSED BY THE GLAZING SYSTEM AND TRANSFERRING THEM TO THE BUILDING STRUCTURE.

SEALANTS:
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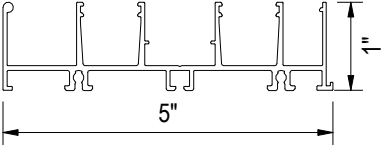
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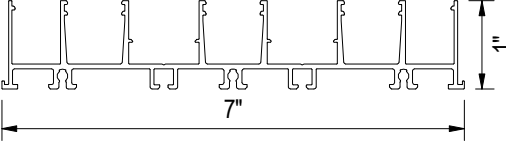
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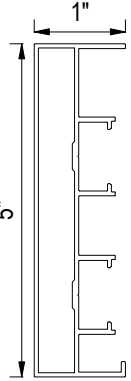
SEALED: 12/19/2024



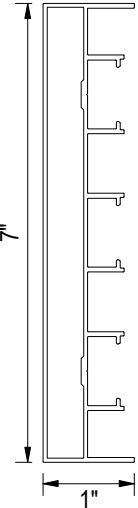
1 2 TRACK SILL/HEAD



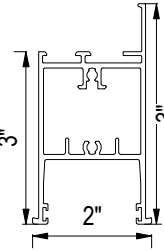
2 3 TRACK SILL/HEAD



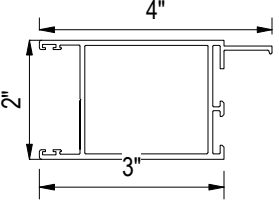
3 2 TRACK JAMB



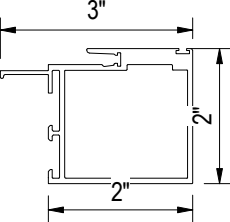
4 3 TRACK JAMB



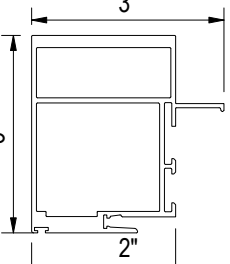
5 PANEL TOP/BOTTOM RAIL



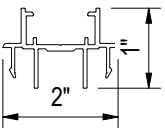
6 PANEL JAMB STILE



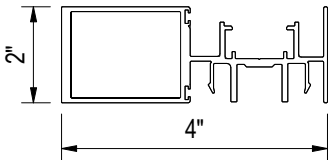
7 OUTER INTERLOCK STILE



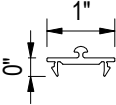
9 REINFORCED INNER INTERLOCK STILE



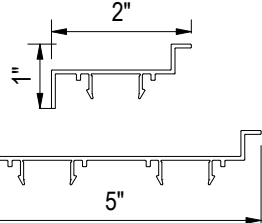
10 STANDARD ASTRAGAL ADAPTER



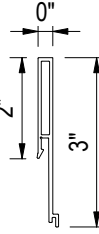
11 REINFORCED ASTRAGAL ADAPTER



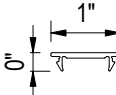
12 TRACK



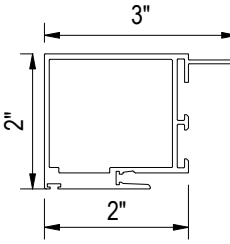
13 JAMB COVER



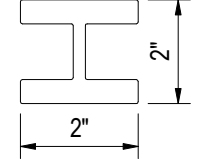
14 SILL RISER



15 SNAP-IN ANCHOR COVER



8 INNER INTERLOCK STILE



16 INTERLOCK REINFORCEMENT



26 INTERLOCK BUMPER GASKET



27 GLAZING BEAD BULB GASKET



E783



E683

32 INS. LAMINATED / LAMINATED G. STOP

ITEM#	PART #	QTY	DESCRIPTION	MATERIAL
1	E771	AS RQ'D	2 TRACK SILL/HEAD	6063-T6
2	E771A	AS RQ'D	3TRACK SILL/HEAD	6063-T6
3	E772	AS RQ'D	2 TRACK JAMB	6063-T6
4	E772A	AS RQ'D	3 TRACK JAMB	6063-T6
5	E773	AS RQ'D	PANEL TOP/BOT RAIL	6063-T6
6	E774	AS RQ'D	PANEL JAMB STILE	6063-T6
7	E775	AS RQ'D	OUTER INTERLOCK STILE	6063-T6
8	E776	AS RQ'D	INNER INTERLOCK STILE	6063-T6
9	E-776R	AS RQ'D	REINFORCED INNER INTERLOCK STILE	6063-T6
10	E777	AS RQ'D	STANDARD ASTRAGAL ADAPTER	6063-T6
11	E778	AS RQ'D	REINFORCED ASTRAGAL ADAPTER	6063-T6
12	E779	AS RQ'D	TRACK	6063-T6
13	E780	AS RQ'D	JAMB COVER	6063-T6
14	E781	AS RQ'D	2-1/4 SILL RISER	6063-T6
15	E783	AS RQ'D	SNAP-IN ANCHOR COVER	6063-T6
16	E787	AS RQ'D	INTERLOCK REINFORCEMENT	6063-T6
17	AL-701	3 u. @ FIX	1 X 1/2 X 1/8 ALUM FIXING CLIP 4" LG	ALUMINUM
18	A771	AS RQ'D	GUIDE BASE	-
19	A772	AS RQ'D	GUIDE CAP	-
20	A773	AS RQ'D	TRACK DAM	-
21	A774	AS RQ'D	SIDE ADJUSTABLE ROLLER	-
22	A776	AS RQ'D	LOCK SET KIT WITH SS HOOKS	-
23	G771	AS RQ'D	DUST PLUG WITH CLEAR CENTER FINS	-
24	G773	AS RQ'D	BUMP-ON SPACER FLB-50	-
25	G774	AS RQ'D	W33321NK00B WEATHER STRIP	-
26	G772	AS RQ'D	INTERLOCK BUMPER GASKET	-
27	G671	AS RQ'D	GLAZING BEAD BULB GASKET	-
28	S771	8/PANEL	#10x1-1/4 FH SMS PANEL ASSY	-
29	S672	12/PANEL	#10x1 HH SMS FRAME ASSY	-
30	S772	2/DAM	#8x3/4 TRACK DAM ATTACHMENT	-
31	S773	AS RQ'D	#10x1-1/2 FH SDS ASTRAGAL ATTACHMENT	-
32	E783/E279	AS REQD	INS.LAM / LAMINATED G. STOP	-



JAVAD AHMAD PE, inc

7875 NW 12th St., Suite 102
Doral, FL 33126

Ph: (305) 424-8001

support@ja-pe.com

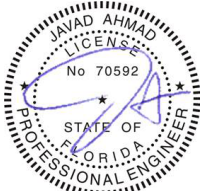
CONSULTING • STRUCTURAL DESIGN • FACADES • BUILDING ENVELOPE • SYSTEM DESIGN • PRODUCT APPROVALS

drawing no.	JA-2042-24	drawn by:	ST
date:	12-19-2024	check by:	MK
REVISION			
No.	DATE	BY	DESCRIPTION

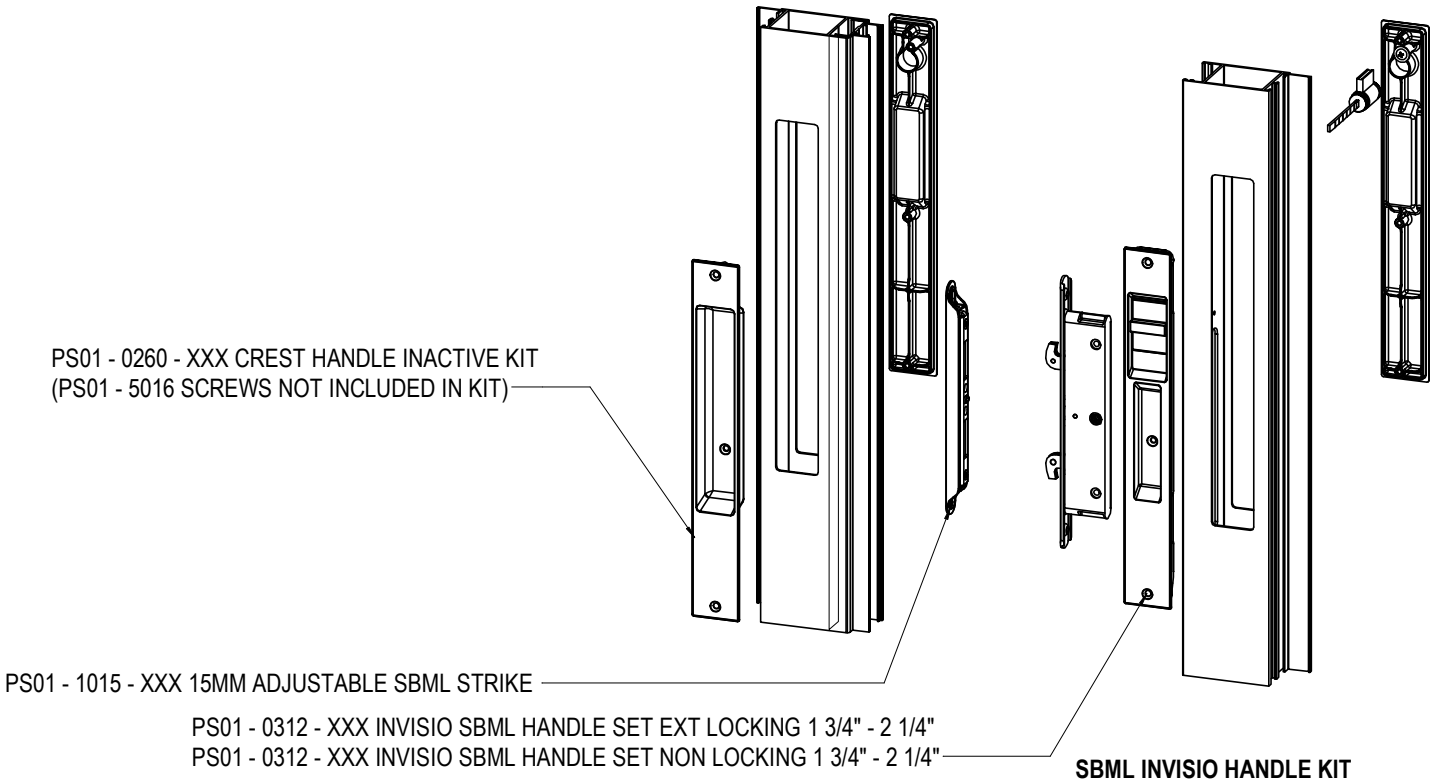
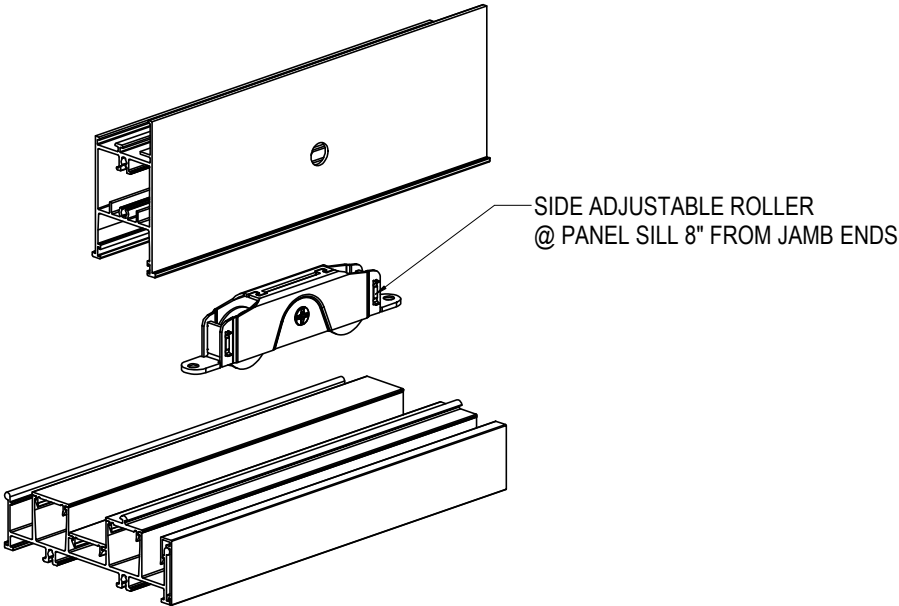
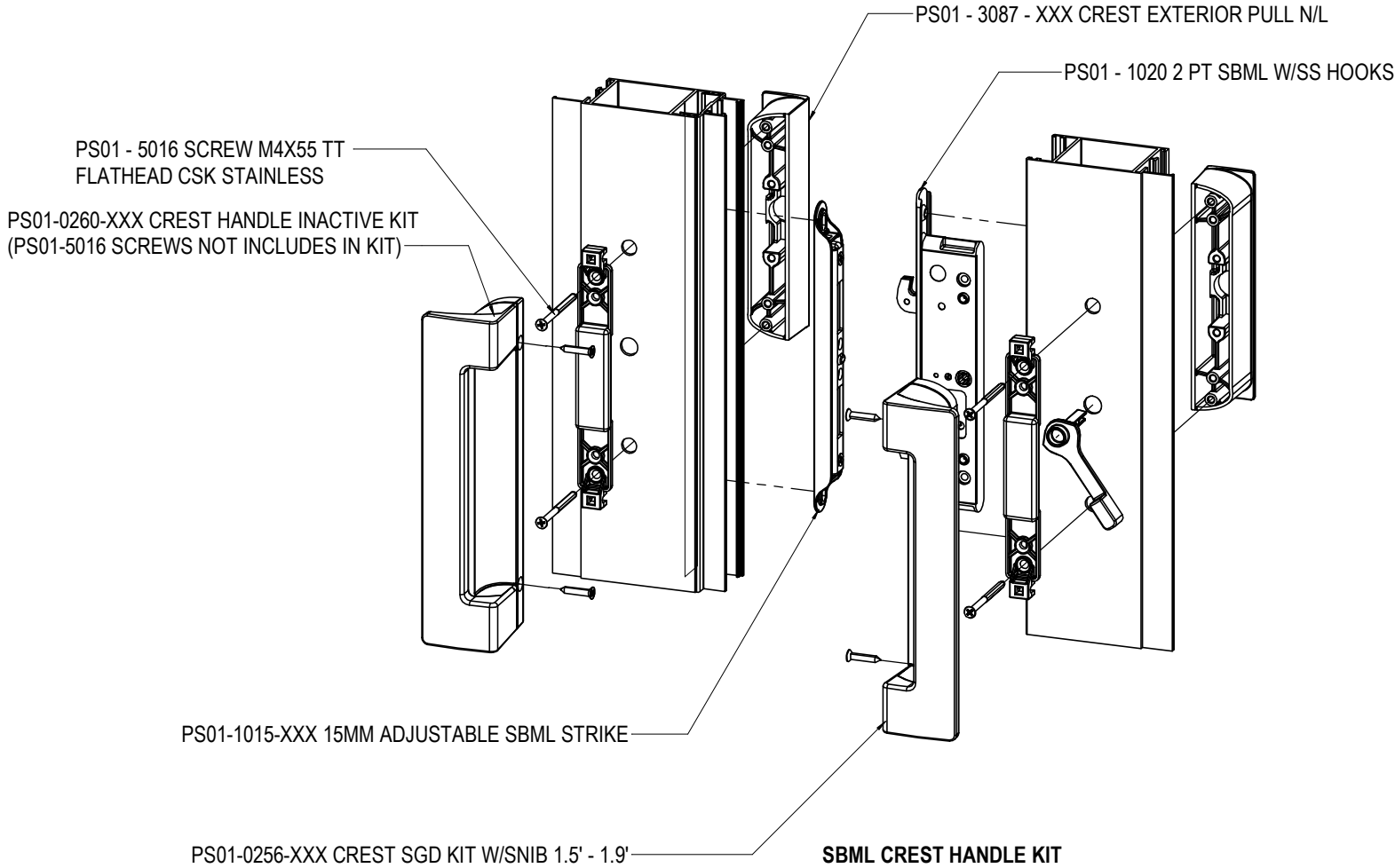
ECO-NOVO SERIES: 775 SLIDING DOOR
SYSTEM
(LARGE AND SMALL MISSILE IMPACT RATED)



ECO WINDOW SYSTEMS, LLC
5802 N.W. 80th STREET, MEDLEY, FL 33166
TEL: (305) 885-5299 FAX: (305) 885-5902



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Ph: (305) 424-8001
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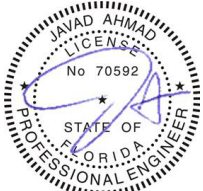
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(LARGE AND SMALL MISSILE IMPACT RATED)



ECO WINDOW SYSTEMS, LLC
8602 N.W. 80th ST. MEDLEY, FL 33186
TEL: (305) 885-5259 FAX: (305) 885-5902

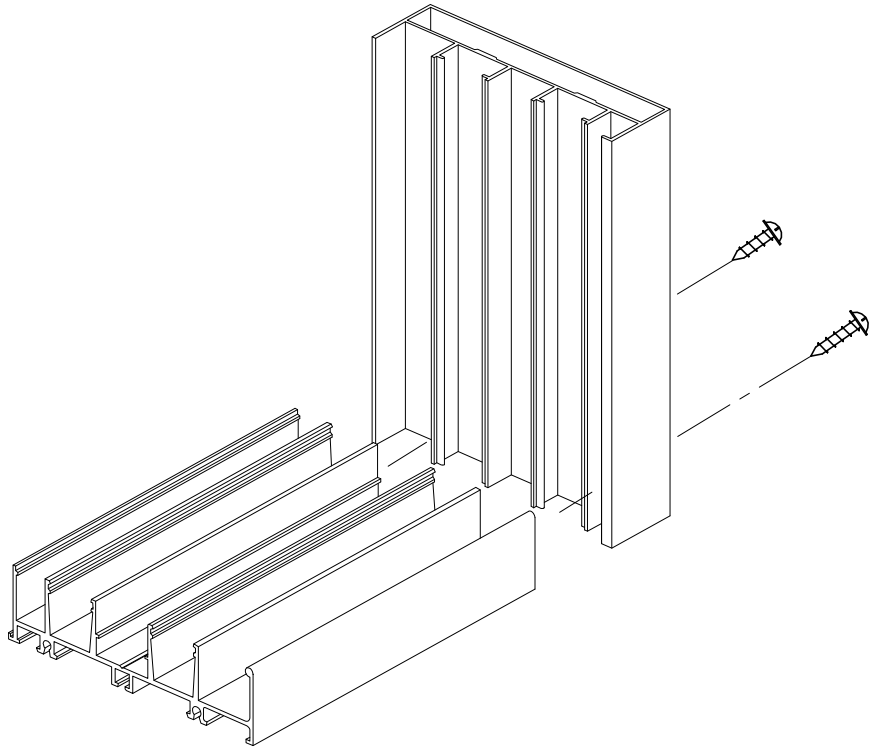


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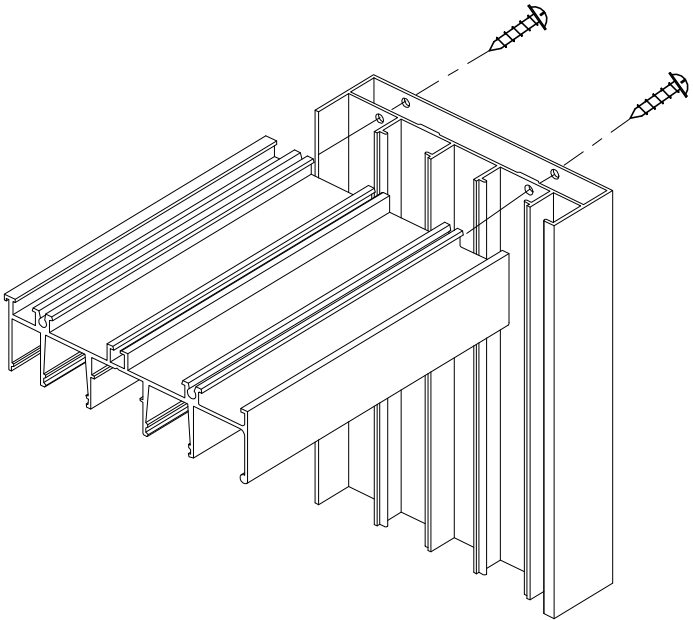


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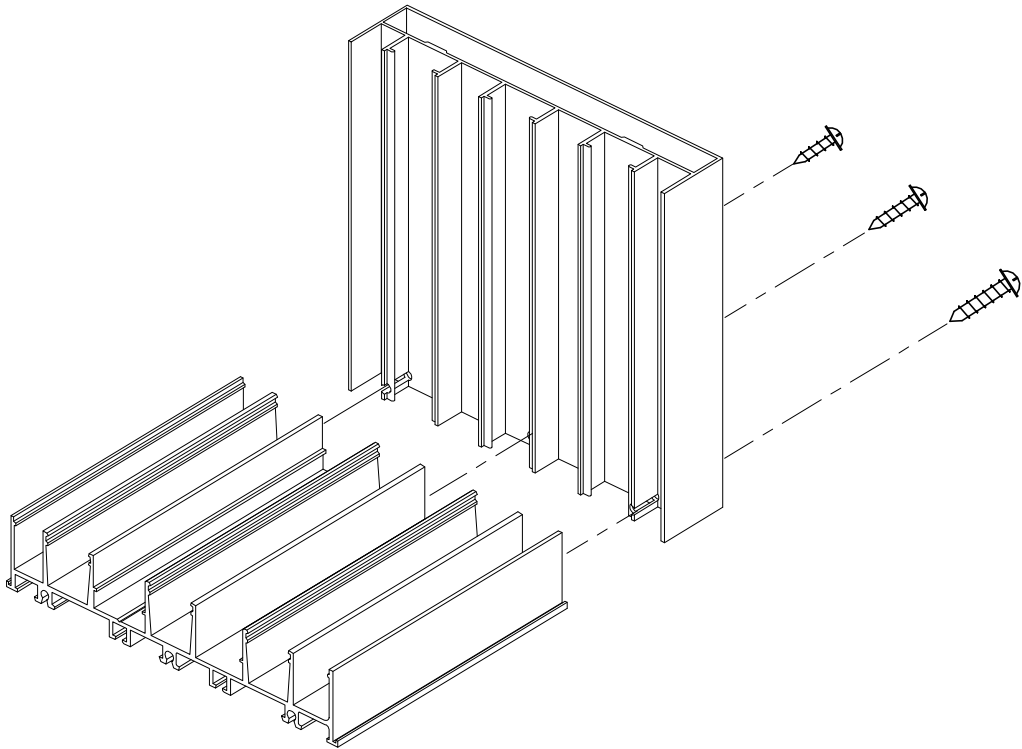
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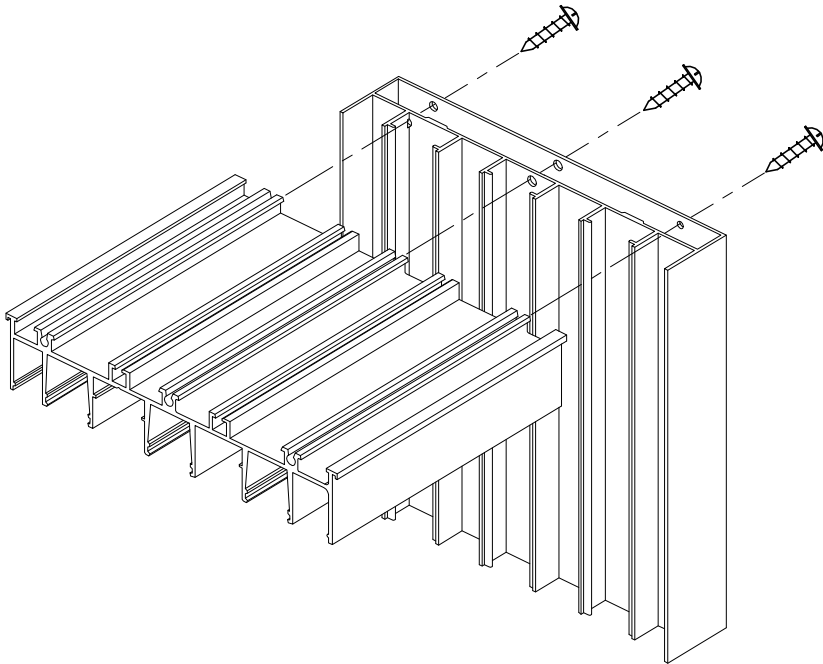
2 TRACK FRAME BOTTOM CORNER



2 TRACK FRAME TOP CORNER



3 TRACK FRAME BOTTOM CORNER

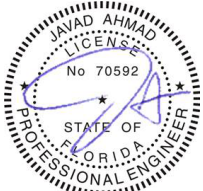


3 TRACK FRAME TOP CORNER

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