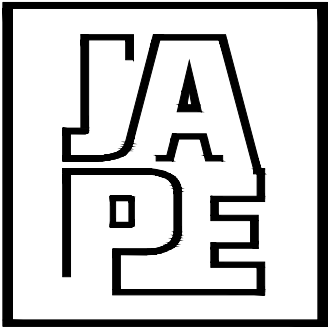


CRAWFORD TRACEY CORPORATION
PRO-TECH 14SG
STRUCTURALLY GLAZED WINDOW-WALL SYSTEM
(LARGE AND SMALL MISSILE IMPACT RATED)

FL#29520.1



JAVAD AHMAD PE, inc

7875 NW 12 Street, Suite 102
Doral, FL 33126
Ph: (305) 424-8001
support@ja-pe.com

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

PROJECT :

PRO-TECH 14SG ALUMINUM
CURTAINWALL SYSTEM

CLIENT :

CRAWFORD TRACEY
CORPORATION

3301 S.W. 13TH DR., DEERFIELD
BEACH
FL 33442
(954) 698-6888

REVISION

No.	DATE	BY	DESCRIPTION

Date: 06-15-2026

Scale: N/A

Drawn by: SA

Check by: PK

Drawing no. JA-1749-23

Eng: JAVAD AHMAD, PE
CIVIL FLA. PE # 70592 - C.A.N.34254



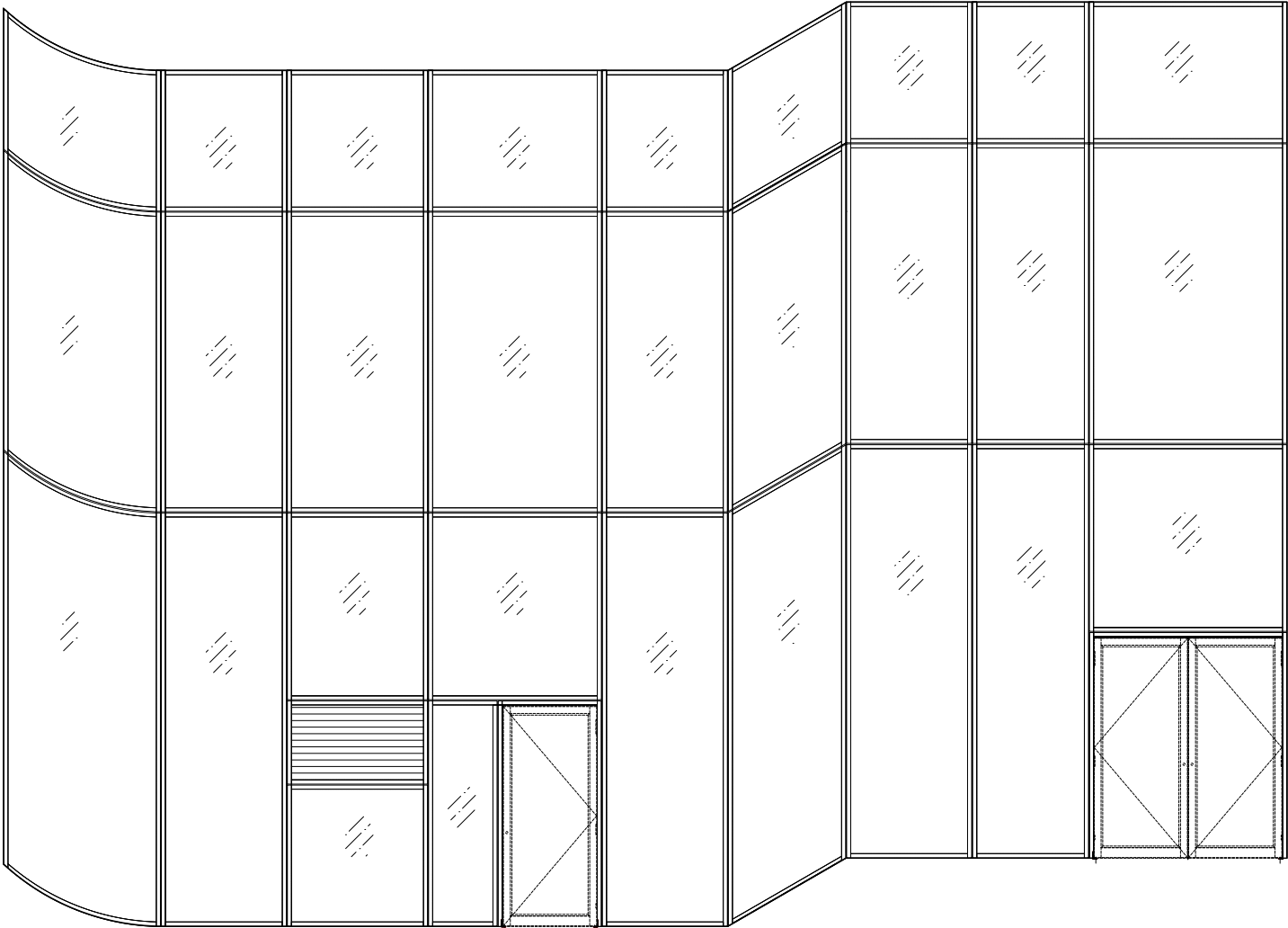
SEALED: 06-17-2026

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TYPICAL CURTAIN WALL ELEVATION

THIS PRODUCT IS APPROVED FOR SMALL AND
LARGE MISSILE IMPACT (LEVEL D & E)

THIS SYSTEM HAS BEEN TESTED TO WITHSTAND
UP TO A 100 PSF WATER INFILTRATION

GENERAL NOTES:

- THE SYSTEM AND GLASS TYPES DESCRIBED HEREIN COMPLY AND HAVE BEEN DESIGNED AND TESTED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE EIGHTH EDITION (2023) PER:
 - ASTM E330-14, E331-00, E283-04, E1886-13a, E1996-14
 - TAS 201 / 202 / 203
 - AAMA 501
 - ANSI Z97.1-2015 (400 ft-lb. IMPACT)
- FOR USE WITHIN AND OUTSIDE THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
- DESIGN PRESSURES NOTED HEREIN ARE BASED ON MAXIMUM TESTED PRESSURES DIVIDED BY A 1.5 SAFETY FACTOR.
- NO 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS SYSTEM. WIND LOAD DURATION FACTOR Cd = 1.6 HAS BEEN USED FOR WOOD ANCHOR DESIGN.
- THE ARCHITECT/ENGINEER OF RECORD FOR THE PROJECT SUPERSTRUCTURE WITH WHICH THIS DESIGN IS USED SHALL BE RESPONSIBLE FOR THE INTEGRITY OF ALL SUPPORTING SURFACES TO THIS DESIGN WHICH SHALL BE COORDINATED BY THE PERMITTING CONTRACTOR. WOOD BUCKS (BY OTHERS) SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE EXISTING STRUCTURE.
- THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. FOR SITE CONDITIONS DIFFERENT FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS DOCUMENT.
- THE CONTRACTOR IS RESPONSIBLE TO ISOLATE ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.

- FASTENERS SHALL BE CADMIUM-PLATED OR OTHERWISE A CORROSION-RESISTANT MATERIAL AND SHALL COMPLY WITH "SPECIFICATIONS FOR ALUMINUM STRUCTURES" SECTION J.3.7.2 BY THE ALUMINUM ASSOCIATION, INC., & ANY APPLICABLE FEDERAL, STATE, AND/OR LOCAL CODES.
- ENGINEER SEAL AFFIXED HERE VALIDATES STRUCTURAL DESIGN AS SHOWN ONLY. USE OF THIS SPECIFICATION BY CONTRACTOR, ET. AL. INDEMNIFIES & SAVES HARMLESS THIS ENGINEER FOR ALL COST & DAMAGES INCLUDING LEGAL FEES & APPELLATE FEES RESULTING FROM MATERIAL FABRICATION, SYSTEM ERECTION, & CONSTRUCTION PRACTICES BEYOND THAT WHICH IS CALLED FOR BY LOCAL, STATE, & FEDERAL CODES & FROM DEVIATIONS OF THIS PLAN.
- EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.
- PRESSURE VALUES ON THIS APPROVAL ARE ALLOWABLE DESIGN PRESSURES (ASD).
- ALTERATIONS, ADDITIONS, OR OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATES THIS CERTIFICATION.
- SAFEGUARDS MUST BE OBSERVED (NOT IN THIS CERTIFICATION).
- IF SLOPED GLAZING IS NEEDED, IT SHALL BE ALLOWED UNDER SITE SPECIFIC ENGINEERING. DESIGN MUST BE CHECKED AND APPROVED BY A PROFESSIONAL ENGINEER AND MANUFACTURER.
- PRODUCT SHALL BE PERMANENTLY LABELED WITH A MINIMUM OF ONE LABEL PER SYSTEM CONTAINING THE FOLLOWING:

CRAWFORD TRACEY CORPORATION
3301 S.W. 13TH DRIVE
DEERFIELD BEACH, FLORIDA 33442
APPROVED BY FLORIDA BUILDING COMMISSION

FL#29520.1



PRO-TECH 14 SG ALUMINUM WINDOW WALL SYSTEM

STEP 1: WIND PRESSURE CALCULATION (BY OTHERS)

- DETERMINE DESIGN WIND PRESSURE REQUIREMENT (PSF) BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND EXPOSURE, RISK CATEGORY, ETC. PER APPLICABLE ASCE 7 LATEST STANDARD.

STEP 2: GLASS SELECTION

- FOR L.M.I. RATING REQUIREMENT- SEE GLASS TYPES AND LOADING CHARTS ON SHEETS 03 TO 9
- FOR S.M.I. RATING REQUIREMENT- SEE GLASS TYPES AND LOADING CHARTS ON SHEETS 10 TO 12
- THIS VALUE SHOULD MEET OR EXCEED THE DESIGN WIND LOAD REQUIREMENT OBTAINED IN STEP 1 ABOVE.

STEP 3: MULLION SELECTION

- THIS SYSTEM IS AVAILABLE IN BOTH VERTICAL AND HORIZONTAL ORIENTATIONS.
- FOR VERTICALLY OR HORIZONTALLY LOADED SYSTEMS, SEE SHEET 13.
- THE CAPACITY SHOULD EXCEED THE DESIGN LOAD. THE LOWEST VALUE RESULTING FROM STEPS 2 AND 3 SHALL APPLY TO ENTIRE SYSTEM.

STEP 4: ANCHOR SELECTION

- SELECT APPROPRIATE ANCHOR DESCRIPTION FROM SHEET 14.
- FOR ANCHOR CAPACITIES, SEE SHEETS 16 TO 21.
- FOR ANCHORAGE USING F-CLIPS AT UNANCHORED JAMBS, SEE SHEETS 22 AND 23.

INTERMEDIATE HORIZONTAL MULLION NOTES:

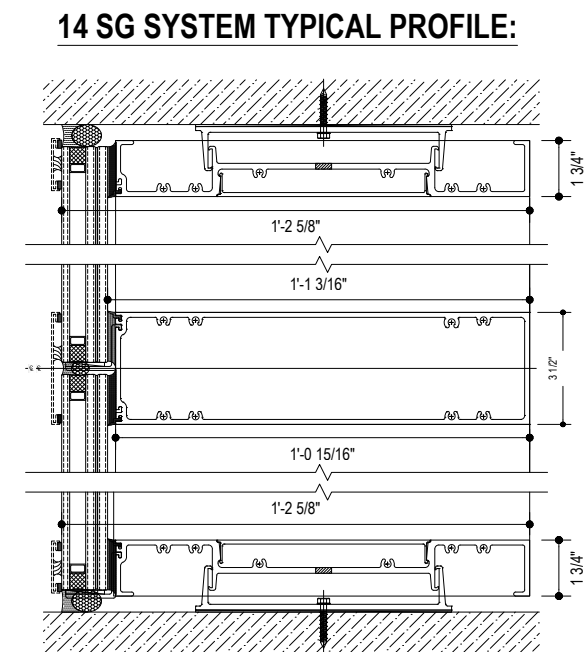
- 125" MAX. SPAN FOR INTERMEDIATE HORIZONTAL MEMBERS.
- SUNSHADES ARE ALLOWED UNDER SITE SPECIFIC ENGINEERING. FINAL SUNSHADE ATTACHMENT AND DESIGN SHALL BE APPROVED BY THE PRODUCT MANUFACTURER AND A LICENSED PROFESSIONAL ENGINEER.

SLOPED GLAZING NOTE:

- SLOPED SYSTEMS SHALL BE DESIGNED ON A SITE SPECIFIC BASIS WITH APPROVAL FROM LICENSED
- PROFESSIONAL ENGINEER AND THE PRODUCT MANUFACTURER.

SEPARATELY APPROVED DOOR SYSTEM & TRANSOM NOTES:

- PRESSURES SHOWN ON SHEET 13 APPLICABLE TO INTERMEDIATE VERTICAL MULLIONS RECEIVING DOORS, AS LONG AS THE MAXIMUM TRIBUTARY WIDTH, PER THE MULLION TYPE, IS NOT EXCEEDED.
- IF ADDITIONAL TRANSOM ANCHORING IS NEEDED, IT SHALL BE DESIGNED PER SITE SPECIFIC ENGINEERING.
- IF PANEL ABOVE DOOR EXCEEDS A GLAZING LOAD OF 1300 LBS, THEN A STRUCTURAL BREAK SHALL BE REQUIRED TO SEPARATE THE DOOR AND CURTAINWALL SYSTEM.



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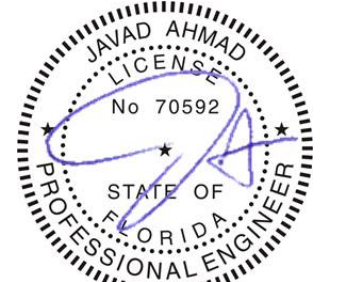
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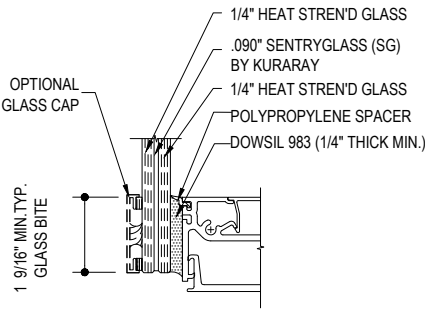
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GLASS TYPES (L.M.I.)

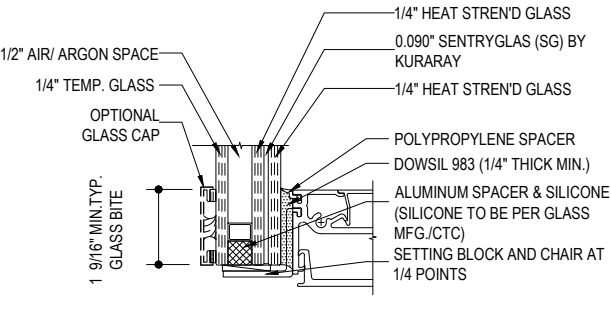
FL#29520.1

GLASS TYPE NOTES:

1. **ASTM E1300:** ALL GLASS TYPES SHOWN COMPLY WITH ASTM E1300.
2. **GEOMTRICAL SHAPES:** GLAZED GEOMTRICAL SHAPES MAY BE USED, PROVIDED THEY FIT INSIDE THE APPROVED INSCRIBED SIZES SHOWN ON THE GLASS LOADING TABLES.
3. **REDUCED GLASS BITE:** GLAZING DETAILS WITH A SILICONE BITE OF 1-9/16" ARE PERMITTED TO BE DECREASED TO A MINIMUM OF 1-3/8" SILICONE BITE, PROVIDED THE ALLOWABLE PRESSURES SHOWN ON THE GLASS LOADING TABLES ARE DECREASED BY 16%.
4. **CERAMIC FRIT:** OPTION OF .019" CERAMIC FRIT ON ROOM SIDE SURFACE OF INNER PANE OF GLASS IS ALLOWED.
5. **GLASS ORIENTATION:** GLASS MAY BE VERTICALLY OR HORIZONTALLY ORIENTED.
6. **SLOPED SYSTEMS:** SLOPED SYSTEMS SHALL BE DESIGNED ON A SITE SPECIFIC BASIS WITH APPROVAL FROM A LICENSED PROFESSIONAL ENGINEER AND THE PRODUCT MANUFACTURER.
7. **CAPS & FINIS:** OPTIONAL GLASS CAPS, FINIS, OR SIMILAR ACCESSORIES OF VARIOUS SIZES MAY BE ATTACHED WITH STRUCTURAL SILICONE, BASED ON SITE SPECIFIC ENGINEERING FROM A LICENSED PROFESSIONAL ENGINEER.
8. **GLASS EXTENSIONS:** CONDITIONS WHERE GLASS EXTENDS PAST THE FRAME ARE ALLOWED. THIS CONDITION SHALL REQUIRE APPROVAL BY A LICENSED PROFESSIONAL ENGINEER.
9. **NON-IMPACT GLASS:** NON-IMPACT GLASS TO DESIGNED ON A SITE SPECIFIC BASIS AND APPROVED BY A LICENSED PROFESSIONAL ENGINEER.
10. **THICKER GLASS:** THICKER GLASS LITES MAY BE USED IN THE SAME CONFIGURATIONS AS SHOWN, AS REQUIRED ON A SITE SPECIFIC BASIS AND SHALL BE APPROVED BY A LICENSED PROFESSIONAL ENGINEER.
11. **CURVED GLASS:** CURVED OR BENT GLASS MAY BE USED IN THE SAME CONFIGURATIONS AS SHOWN, IN ACCORDANCE WITH SITE SPECIFIC REQUIREMENTS. IF CURVED OR BENT GLASS IS USED, IT SHALL BE CHECKED AND APPROVED BY A LICENSED PROFESSIONAL ENGINEER AND THE PRODUCT MANUFACTURER. FINAL APPROVAL SHALL BE GIVEN BY AUTHORITY HAVING JURISDICTION.
12. **MONOLITHIC GLASS:** NON-LAMINATED MONOLITHIC GLASS MAY BE USED IN PLACE OF THE LAMINATED OPTIONS SHOWN GIVEN THAT THE GLASS TO BE USED IS LABELED AS "NON-IMPACT RESISTANT" AND IS DESIGNED TO MEET ASTM E1300 STANDARDS. THE SUBSTITUTED GLAZING MUST BE CHECKED AND APPROVED BY A LICENSED PROFESSIONAL ENGINEER AND THE PRODUCT MANUFACTURER.
13. **INSULATED GLASS UNIT (IGU) AIR SPACE:** FOR INSULATED GLASS UNITS, THE AIR SPACE WIDTH CAN BE INCREASED ON A SITE SPECIFIC BASIS WITH APPROVAL FROM A LICENSED PROFESSIONAL ENGINEER AND THE PRODUCT MANUFACTURER.

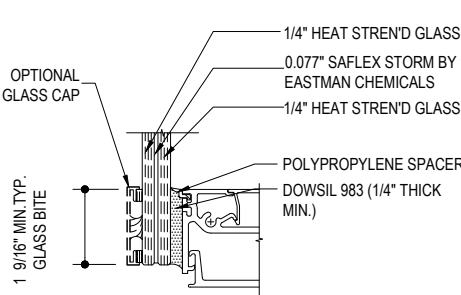


GLASS TYPE 'L1'
9/16" THK. LAM. GLASS
L.M.I. (LEVEL D)

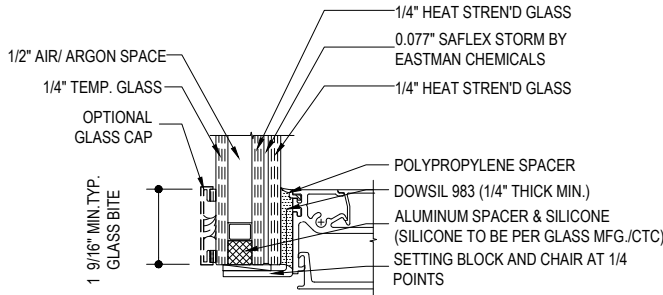


GLASS TYPE 'L1A'
1-5/16" THK. INSUL. LAM. GLASS
L.M.I. (LEVEL D)

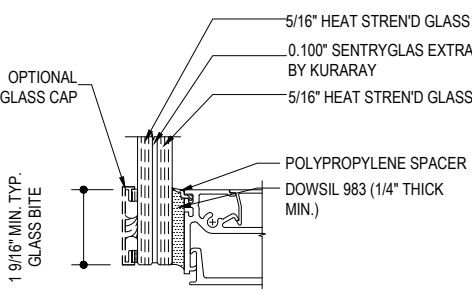
CURVED GLASS: GLASS TYPES 'L1' & 'L1A' ARE ALSO APPROVED FOR CURVED GLASS WITH A MIN. RADIUS OF 60" TO THE OUTSIDE FACE; MAX. GLASS LOAD OF ±120 PSF FOR D.L.O. SIZES UP TO 78.5 SQ.FT.



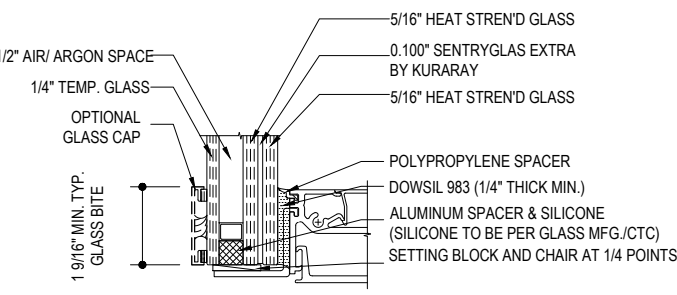
GLASS TYPE 'L2'
9/16" THK. LAM. GLASS
L.M.I. (LEVEL D)



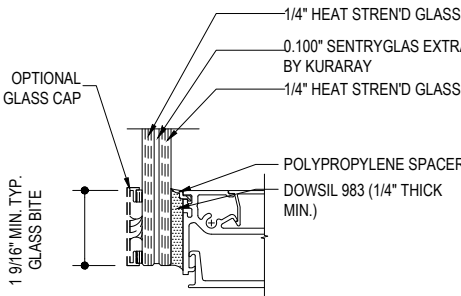
GLASS TYPE 'L2A'
1-5/16" THK. INSUL. LAM. GLASS
L.M.I. (LEVEL D)



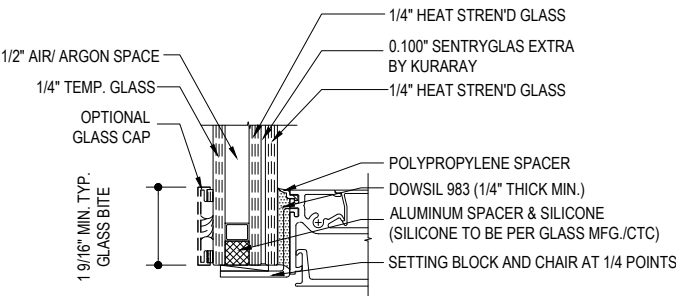
GLASS TYPE 'L4'
3/4" THK. LAM. GLASS
L.M.I. (LEVEL D)



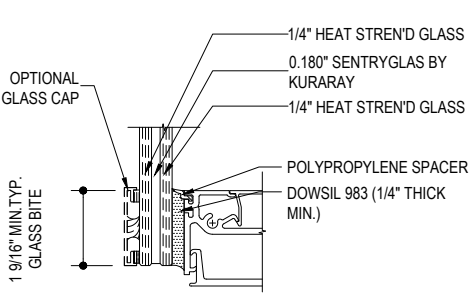
GLASS TYPE 'L4A'
1-1/2" THK. INSUL. LAM. GLASS
L.M.I. (LEVEL D)



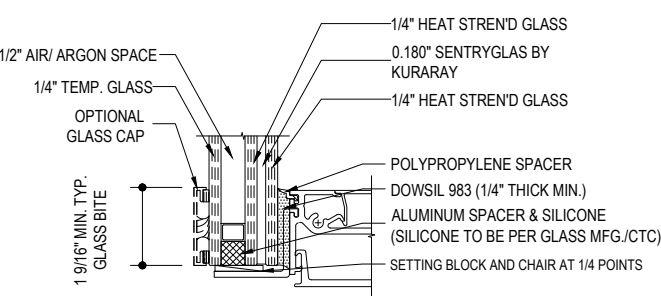
GLASS TYPE 'L3'
5/8" THK. LAM. GLASS
L.M.I. (LEVEL D)



GLASS TYPE 'L3A'
1-3/8" THK. INSUL. LAM. GLASS
L.M.I. (LEVEL D)

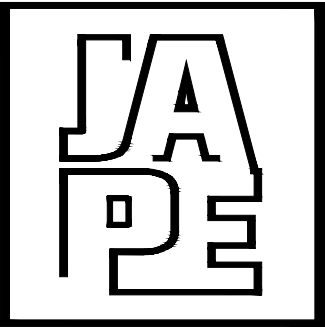


GLASS TYPE 'L5'
11/16" THK. LAM. GLASS
L.M.I. (LEVEL E)



GLASS TYPE 'L5A'
1-7/16" THK. INSUL. LAM. GLASS
L.M.I. (LEVEL E)

CURVED GLASS: GLASS TYPES 'L5' & 'L5A' ARE ALSO APPROVED FOR CURVED GLASS WITH A MIN. RADIUS OF 60" TO THE OUTSIDE FACE; MAX. GLASS LOAD OF ±120 PSF FOR D.L.O. SIZES UP TO 78.5 SQ.FT.



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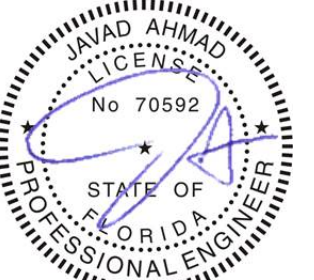
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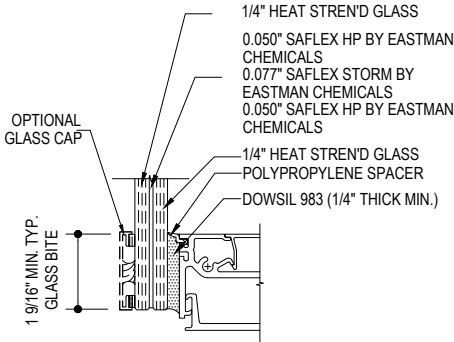
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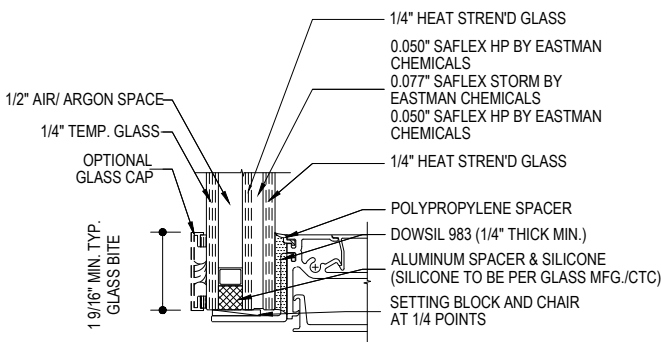
GLASS TYPES (L.M.I.) (CONT.)

FL#29520.1



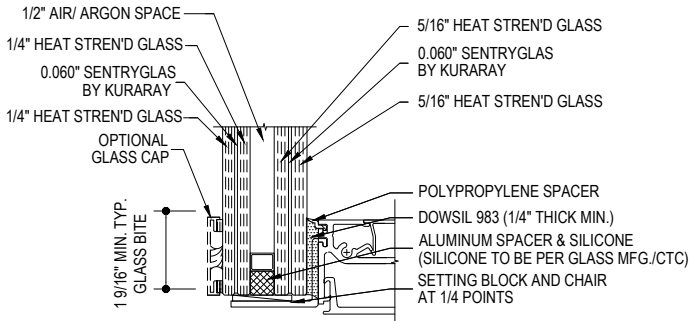
GLASS TYPE 'L6'

11/16" THK. LAM. GLASS
L.M.I. (LEVEL E)



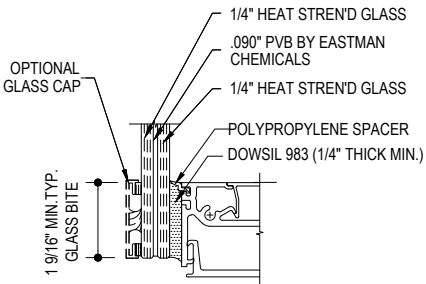
GLASS TYPE 'L6A'

1-7/16" THK. INSUL. LAM. GLASS
L.M.I. (LEVEL E)



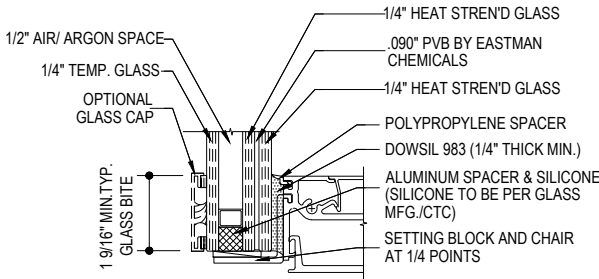
GLASS TYPE 'L7'

1-3/4" THK. INSUL. LAM. GLASS
L.M.I. (LEVEL D)



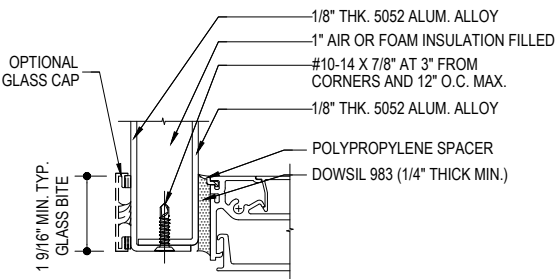
GLASS TYPE 'L8'

9/16" THK. LAM. GLASS
L.M.I. (LEVEL D)



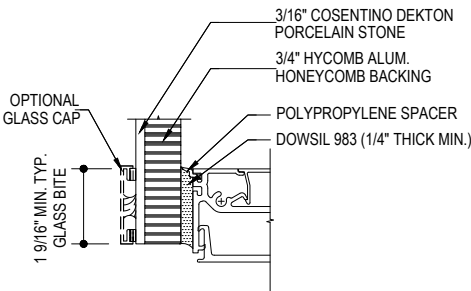
GLASS TYPE 'L8A'

1-5/16" THK. INSUL. LAM. GLASS
L.M.I. (LEVEL D)



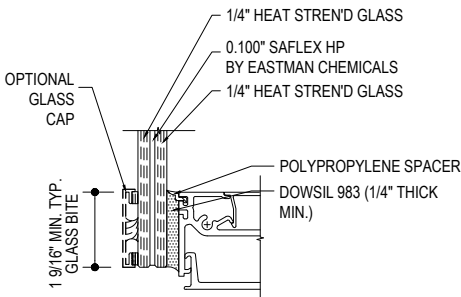
GLASS TYPE 'L9'

1-3/8" THK. ALUM. INFILL PANEL
L.M.I. (LEVEL E)



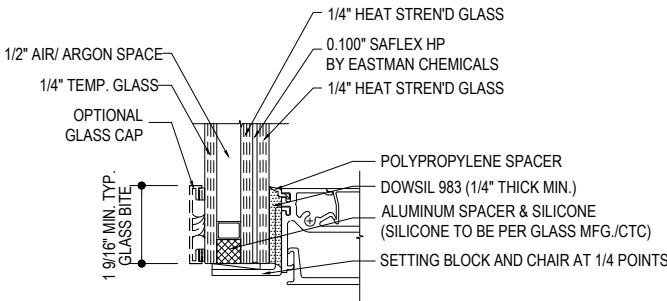
GLASS TYPE 'L10'

15/16" TO 1-7/16" THK.MIN. STONE INFILL PANEL
L.M.I. (LEVEL E)



GLASS TYPE 'L11'

5/8" THK. LAM. GLASS
L.M.I. (LEVEL D)

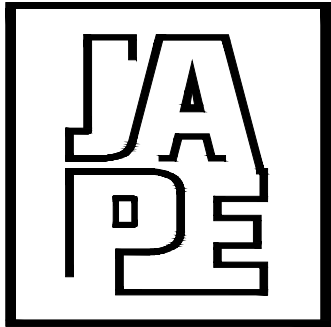


GLASS TYPE 'L11A'

1-3/8" THK. INSUL. LAM. GLASS
L.M.I. (LEVEL D)

GLASS TYPE NOTES:

- ASTM E1300:** ALL GLASS TYPES SHOWN COMPLY WITH ASTM E1300.
- GEOMETRICAL SHAPES:** GLAZED GEOMETRICAL SHAPES MAY BE USED, PROVIDED THEY FIT INSIDE THE APPROVED INSCRIBED SIZES SHOWN ON THE GLASS LOADING TABLES.
- REDUCED GLASS BITE:** GLAZING DETAILS WITH A SILICONE BITE OF 1-9/16" ARE PERMITTED TO BE DECREASED TO A MINIMUM OF 1-3/8" SILICONE BITE, PROVIDED THE ALLOWABLE PRESSURES SHOWN ON THE GLASS LOADING TABLES ARE DECREASED BY 16%.
- CERAMIC FRIT:** OPTION OF .019" CERAMIC FRIT ON ROOM SIDE SURFACE OF INNER PANE OF GLASS IS ALLOWED.
- GLASS ORIENTATION:** GLASS MAY BE VERTICALLY OR HORIZONTALLY ORIENTED.
- SLOPED SYSTEMS:** SLOPED SYSTEMS SHALL BE DESIGNED ON A SITE SPECIFIC BASIS WITH APPROVAL FROM A LICENSED PROFESSIONAL ENGINEER AND THE PRODUCT MANUFACTURER.
- CAPS & FINIS:** OPTIONAL GLASS CAPS, FINIS, OR SIMILAR ACCESSORIES OF VARIOUS SIZES MAY BE ATTACHED WITH STRUCTURAL SILICONE, BASED ON SITE SPECIFIC ENGINEERING FROM A LICENSED PROFESSIONAL ENGINEER.
- GLASS EXTENSIONS:** CONDITIONS WHERE GLASS EXTENDS PAST THE FRAME ARE ALLOWED. THIS CONDITION SHALL REQUIRE APPROVAL BY A LICENSED PROFESSIONAL ENGINEER.
- NON-IMPACT GLASS:** NON-IMPACT GLASS TO DESIGNED ON A SITE SPECIFIC BASIS AND APPROVED BY A LICENSED PROFESSIONAL ENGINEER.
- THICKER GLASS:** THICKER GLASS LITES MAY BE USED IN THE SAME CONFIGURATIONS AS SHOWN, AS REQUIRED ON A SITE SPECIFIC BASIS AND SHALL BE APPROVED BY A LICENSED PROFESSIONAL ENGINEER.
- CURVED GLASS:** CURVED OR BENT GLASS MAY BE USED IN THE SAME CONFIGURATIONS AS SHOWN, IN ACCORDANCE WITH SITE SPECIFIC REQUIREMENTS. IF CURVED OR BENT GLASS IS USED, IT SHALL BE CHECKED AND APPROVED BY A LICENSED PROFESSIONAL ENGINEER AND THE PRODUCT MANUFACTURER. FINAL APPROVAL SHALL BE GIVEN BY AUTHORITY HAVING JURISDICTION.
- MONOLITHIC GLASS:** NON-LAMINATED MONOLITHIC GLASS MAY BE USED IN PLACE OF THE LAMINATED OPTIONS SHOWN GIVEN THAT THE GLASS TO BE USED IS LABELED AS "NON-IMPACT RESISTANT" AND IS DESIGNED TO MEET ASTM E1300 STANDARDS. THE SUBSTITUTED GLAZING MUST BE CHECKED AND APPROVED BY A LICENSED PROFESSIONAL ENGINEER AND THE PRODUCT MANUFACTURER.
- INSULATED GLASS UNIT (IGU) AIR SPACE:** FOR INSULATED GLASS UNITS, THE AIR SPACE WIDTH CAN BE INCREASED ON A SITE SPECIFIC BASIS WITH APPROVAL FROM A LICENSED PROFESSIONAL ENGINEER AND THE PRODUCT MANUFACTURER.



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CURTAINWALL SYSTEM

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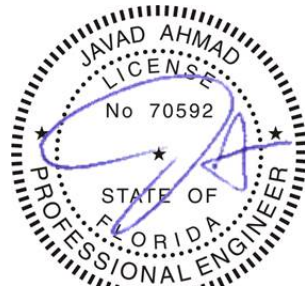
CRAWFORD TRACEY
CORPORATION

3301 S.W. 13TH DR.,
DEERFIELD BEACH, FL 33442
(954) 698-6888

REVISION

No.	DATE	BY	DESCRIPTION
Date:	06-15-2026		
Scale:	N/A		
Drawn by:	SA		
Check by:	PK		
Drawing no.	JA-1749-23		

Eng: JAVAD AHMAD, PE
CIVIL FLA. PE # 70592 - C.A.N.34254



SEALED: 06-17-2026

GLASS LOAD TABLES (L.M.I.)												FL#29520.1	
GLASS LOAD CAPACITY (PSF) - L.M.I.													
D.L.O		L1 & L1A EXT.(+) INT.(-)	L2 & L2A EXT.(+) INT.(-)	L3 & L3A EXT.(+) INT.(-)	L4 & L4A EXT.(+) INT.(-)	L5 & L5A EXT.(+) INT.(-)	L6 & L6A EXT.(+) INT.(-)	L7 EXT.(+) INT.(-)	L8 & L8A EXT.(+) INT.(-)	L9 EXT.(+) INT.(-)	L10 EXT.(+) INT.(-)	L11 & L11A EXT.(+) INT.(-)	
WIDTH OR HEIGHT (IN.)	WIDTH OR HEIGHT (IN.)												
24"	24" to 120"	+120 -145	+100 -100	+80 -80	+120 -126	+120 -120	+100 -100	+100 -100	+80 -80	+175 -175	+150 -150	+80 -80	
	126"	+120 -145	+100 -100	+80 -80	+120 -126	+120 -120	+100 -100	+100 -100	-	+175 -175	+150 -150	+80 -80	
	132" to 168"	+120 -145	+100 -100	+80 -80	+120 -126	+120 -120	+100 -100	+100 -100	-	+175 -175	-	+80 -80	
	174"	+120 -145	+100 -100	+80 -80	+120 -126	+120 -120	-	+100 -100	-	+175 -175	-	+80 -80	
	180" to 189"	+120 -145	+100 -100	+80 -80	+120 -126	+120 -120	-	+100 -100	-	+175 -175	-	-	
	192" to 198"	+120 -145	+100 -100	-	+120 -126	+120 -120	-	+100 -100	-	+175 -175	-	-	
	204"	+120 -126	+100 -100	-	+120 -126	+120 -120	-	+100 -100	-	+175 -175	-	-	
	210"	+120 -126	+100 -100	-	+120 -126	+120 -120	-	+100 -100	-	-	-	-	
216" to 252"	+120 -126	-	-	+120 -126	-	-	+100 -100	-	-	-	-		
30"	30" to 120"	+120 -145	+100 -100	+80 -80	+120 -126	+120 -120	+100 -100	+100 -100	+80 -80	+175 -175	+150 -150	+80 -80	
	126"	+120 -145	+100 -100	+80 -80	+120 -126	+120 -120	+100 -100	+100 -100	-	+175 -175	+150 -150	+80 -80	
	132"	+120 -145	+100 -100	+80 -80	+120 -126	+120 -120	+100 -100	+100 -100	-	+175 -175	-	+80 -80	
	138" to 168"	+120 -145	+100 -100	+80 -80	+120 -126	+120 -120	+100 -100	+100 -100	-	+175 -175	-	-	
	174" to 189"	+120 -145	+100 -100	+80 -80	+120 -126	+120 -120	-	+100 -100	-	+175 -175	-	-	
	192" to 198"	+120 -145	+100 -100	-	+120 -126	+120 -120	-	+100 -100	-	+175 -175	-	-	
	204"	+120 -126	+100 -100	-	+120 -126	+120 -120	-	+100 -100	-	+175 -175	-	-	
	210"	+120 -126	+100 -100	-	+120 -126	+120 -120	-	+100 -100	-	-	-	-	
216" to 252"	+120 -126	-	-	+120 -126	-	-	+100 -100	-	-	-	-		
36"	36" to 108"	+120 -145	+100 -100	+80 -80	+120 -126	+120 -120	+100 -100	+100 -100	+80 -80	+175 -175	+150 -150	+80 -80	
	114" to 126"	+120 -145	+100 -100	+80 -80	+120 -126	+120 -120	+100 -100	+100 -100	-	+175 -175	+150 -150	-	
	132V to 162"	+120 -145	+100 -100	+80 -80	+120 -126	+120 -120	+100 -100	+100 -100	-	+175 -175	-	-	
	168"	+120 -126	+100 -100	+80 -80	+120 -126	+120 -120	+100 -100	+100 -100	-	+175 -175	-	-	
	174"	+120 -126	+100 -100	+80 -80	+120 -126	+120 -120	-	+100 -100	-	+175 -175	-	-	
	180" to 189"	+120 -126	-	+80 -80	+120 -126	-	-	+100 -100	-	+175 -175	-	-	
	192" to 204"	+120 -126	-	-	+120 -126	-	-	+100 -100	-	+175 -175	-	-	
	210" to 252"	+120 -126	-	-	+120 -126	-	-	+100 -100	-	-	-	-	
42"	42" to 84"	+120 -145	+100 -100	+80 -80	+120 -126	+120 -120	+100 -100	+100 -100	+80 -80	+175 -175	+150 -150	+68 -68	
	90" to 96"	+120 -145	+100 -100	+80 -80	+120 -126	+120 -120	+100 -100	+100 -100	-	+175 -175	+150 -150	+68 -68	
	102" to 126"	+120 -145	+100 -100	+80 -80	+120 -126	+120 -120	+100 -100	+100 -100	-	+175 -175	+150 -150	-	
	132" to 138"	+120 -145	+100 -100	+80 -80	+120 -126	+120 -120	+100 -100	+100 -100	-	+175 -175	-	-	
	144" to 150"	+120 -126	+100 -100	+80 -80	+120 -126	+120 -120	+100 -100	+100 -100	-	+175 -175	-	-	
	156" to 162"	+120 -126	+100 -100	+80 -80	+120 -126	-	+100 -100	+100 -100	-	+175 -175	-	-	
	168"	+120 -126	-	+80 -80	+120 -126	-	+100 -100	+100 -100	-	+175 -175	-	-	
	174" to 189"	+120 -126	-	+80 -80	+120 -126	-	-	+100 -100	-	+175 -175	-	-	
	192" to 204"	+120 -126	-	-	+120 -126	-	-	+100 -100	-	+175 -175	-	-	
	210" to 252"	+120 -126	-	-	+120 -126	-	-	+100 -100	-	-	-	-	
48"	48" to 78"	+120 -145	+100 -100	+80 -80	+120 -126	+120 -120	+100 -100	+100 -100	+80 -80	+175 -175	+150 -150	+60 -60	
	84"	+120 -145	+100 -100	+80 -80	+120 -126	+120 -120	+100 -100	+100 -100	-	+175 -175	+150 -150	+60 -60	
	90" to 120"	+120 -145	+100 -100	+80 -80	+120 -126	+120 -120	+100 -100	+100 -100	-	+175 -175	+150 -150	-	
	126V	+120 -126	+100 -100	+80 -80	+120 -126	+120 -120	+100 -100	+100 -100	-	+175 -175	+150 -150	-	
	132" to 138"	+120 -126	+100 -100	+80 -80	+120 -126	+120 -120	+100 -100	+100 -100	-	+175 -175	-	-	
	144"	+120 -126	+100 -100	+80 -80	+120 -126	-	+100 -100	+100 -100	-	+175 -175	-	-	
	150" to 168"	+120 -126	-	+80 -80	+120 -126	-	+100 -100	+100 -100	-	+175 -175	-	-	
	174" to 189"	+120 -126	-	+80 -80	+120 -126	-	-	+100 -100	-	-	-	-	
	192" to 228"	+120 -126	-	-	+120 -126	-	-	+100 -100	-	-	-	-	
	233" to 252"	-	-	-	-	-	-	+100 -100	-	-	-	-	

D.L.O.
HEIGHT

D.L.O.
WIDTH

D.L.O.
HEIGHT

D.L.O.
WIDTH

NOTE:

GLASS CAPACITIES ON THIS SHEET ARE BASED
ON ASTM E1300-09 (3 SEC. GUSTS).

NOTE:

ALL PRESSURES SHOWN ON THIS SHEET ARE
ALLOWABLE PRESSURES (ASD).

J
A
P
E

JAVAD AHMAD PE, inc

7875 NW 12 Street, Suite 102
Doral, FL 33126
Ph: (305) 424-8001
support@ja-pe.com

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

PROJECT :

PRO-TECH 14SG ALUMINUM
CURTAINWALL SYSTEM

CLIENT :

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CORPORATION

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REVISION

No.	DATE	BY	DESCRIPTION
Date:	06-15-2026		
Scale:	N/A		
Drawn by:	SA		
Check by:	PK		
Drawing no.	JA-1749-23		

Eng: JAVAD AHMAD, PE
CIVIL FLA. PE # 70592 - C.A.N.34254

JAVAD AHMAD
LICENSE
No 70592
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

SEALED: 06-17-2026

05

OF 34

GLASS LOAD TABLES (L.M.I.) (CONT.)												FL#29520.1	
GLASS LOAD CAPACITY (PSF) - L.M.I.													
D.L.O		L1 & L1A EXT.(+) INT.(-)	L2 & L2A EXT.(+) INT.(-)	L3 & L3A EXT.(+) INT.(-)	L4 & L4A EXT.(+) INT.(-)	L5 & L5A EXT.(+) INT.(-)	L6 & L6A EXT.(+) INT.(-)	L7 EXT.(+) INT.(-)	L8 & L8A EXT.(+) INT.(-)	L9 EXT.(+) INT.(-)	L10 EXT.(+) INT.(-)	L11 & L11A EXT.(+) INT.(-)	
WIDTH OR HEIGHT (IN.)	WIDTH OR HEIGHT (IN.)												
54"	54 "to 72"	+120 -136	+100 -100	+80 -80	+120 -126	+120 -120	+88 -88	+100 -100	+80 -80	+175 -175	+150 -150	+53 -53	
	78" to 108"	+120 -136	+100 -100	+80 -80	+120 -126	+120 -120	+88 -88	+100 -100	-	+175 -175	+150 -150	-	
	114"	+120 -126	+100 -100	+80 -80	+120 -126	+118 -118	+88 -88	+100 -100	-	+175 -175	+150 -150	-	
	120" to 126"	+120 -126	+100 -100	+80 -80	+120 -126	+114 -114	+88 -88	+100 -100	-	+175 -175	+150 -150	-	
	132" to 144"	+120 -126	-	+80 -80	+120 -126	-	+88 -88	+100 -100	-	+175 -175	-	-	
	150" to 168"	+120 -126	-	+80 -80	+120 -126	-	-	+100 -100	-	+175 -175	-	-	
	174 "to 189"	+120 -126	-	+80 -80	+120 -126	-	-	+100 -100	-	-	-	-	
	192" to 204"	+120 -126	-	-	+120 -126	-	-	+100 -100	-	-	-	-	
	210" to 252"	-	-	-	-	-	-	+100 -100	-	-	-	-	
58 1/2"	58 1/2"	+120 -126	+100 -100	+80 -80	+120 -126	+120 -120	+80 -80	+100 -100	+80 -80	+175 -175	+150 -150	+53 -53	
	60" to 66"	+120 -126	+100 -100	+80 -80	+120 -126	+120 -120	+80 -80	+100 -100	+80 -80	+175 -175	+150 -150	+48 -48	
	72" to 102"	+120 -126	+100 -100	+80 -80	+120 -126	+120 -120	+80 -80	+100 -100	-	+175 -175	+150 -150	-	
	108"	+120 -126	+100 -100	+80 -80	+120 -126	+118 -118	+80 -80	+100 -100	-	+175 -175	+150 -150	-	
	114"	+120 -126	+100 -100	+80 -80	+120 -126	+110 -110	+80 -80	+100 -100	-	+175 -175	+150 -150	-	
	120" to 126"	+120 -126	-	+80 -80	+120 -126	-	+80 -80	+100 -100	-	+175 -175	+150 -150	-	
	132"	+120 -126	-	+80 -80	+120 -126	-	+80 -80	+100 -100	-	+175 -175	-	-	
	138"	+120 -126	-	+80 -80	+120 -126	-	-	+100 -100	-	+175 -175	-	-	
	144" to 189"	+120 -126	-	+80 -80	+120 -126	-	-	+100 -100	-	-	-	-	
192" to 252"	-	-	-	-	-	-	+100 -100	-	-	-	-		
60"	60"	+120 -123	+100 -100	+78 -78	+117 -122	+120 -120	+80 -80	+100 -100	+80 -80	+175 -175	+150 -150	+48 -48	
	66"	+120 -123	+100 -100	+78 -78	+117 -122	+120 -120	+80 -80	+100 -100	-	+175 -175	+150 -150	+48 -48	
	72" to 90"	+120 -123	+100 -100	+78 -78	+117 -122	+120 -120	+80 -80	+100 -100	-	+175 -175	+150 -150	-	
	96"	+117 -123	+100 -100	+78 -78	+117 -122	+120 -120	+80 -80	+100 -100	-	+175 -175	+150 -150	-	
	102"	+117 -122	+100 -100	+78 -78	+117 -122	+120 -120	+80 -80	+100 -100	-	+175 -175	+150 -150	-	
	108"	+117 -122	-	+78 -78	+117 -122	+112 -112	+80 -80	+100 -100	-	+175 -175	+150 -150	-	
	114" to 120"	+117 -122	-	+78 -78	+117 -122	-	+80 -80	+100 -100	-	+175 -175	+150 -150	-	
	126" to 132"	+117 -122	-	+78 -78	+117 -122	-	+80 -80	+100 -100	-	+175 -175	-	-	
	138"	+117 -122	-	+78 -78	+117 -122	-	-	+100 -100	-	+175 -175	-	-	
	144" to 180"	+117 -122	-	+78 -78	+117 -122	-	-	+100 -100	-	-	-	-	
186" to 252"	-	-	-	-	-	-	+100 -100	-	-	-	-		
66"	66"	+120 -123	+100 -100	+70 -70	+106 -111	+120 -120	+72 -72	+100 -100	-	+175 -175	+150 -150	-	
	72" to 84"	+120 -120	+100 -100	+70 -70	+106 -111	+120 -120	+72 -72	+100 -100	-	+175 -175	+150 -150	-	
	90"	+119 -119	+100 -100	+70 -70	+106 -111	+120 -120	+72 -72	+100 -100	-	+175 -175	+150 -150	-	
	96"	+106 -111	-	+70 -70	+106 -111	+118 -118	+72 -72	+100 -100	-	+175 -175	+150 -150	-	
	102"	+106 -111	-	+70 -70	+106 -111	+117 -117	+72 -72	+100 -100	-	+175 -175	+150 -150	-	
	108" to 114"	+106 -111	-	+70 -70	+106 -111	-	+72 -72	+100 -100	-	+175 -175	+150 -150	-	
	120"	+106 -111	-	+70 -70	+106 -111	-	+72 -72	+100 -100	-	+175 -175	-	-	
	126" to 132"	+106 -111	-	+70 -70	+106 -111	-	-	+100 -100	-	+175 -175	-	-	
	138" to 162"	+106 -111	-	+70 -70	+106 -111	-	-	+100 -100	-	-	-	-	
	168" to 252"	-	-	-	-	-	-	+100 -100	-	-	-	-	
72"	72" to 84"	+120 -120	+100 -100	+65 -65	+97 -102	+120 -120	+66 -66	+100 -100	-	+161 -161	+150 -150	-	
	90"	+112 -112	+100 -100	+65 -65	+97 -102	+120 -120	+66 -66	+100 -100	-	+161 -161	+150 -150	-	
	96" to 108"	+97 -102	-	+65 -65	+97 -102	-	+66 -66	+100 -100	-	+161 -161	+150 -150	-	
	114"	+97 -102	-	+65 -65	+97 -102	-	-	+100 -100	-	+161 -161	+150 -150	-	
	120" to 126"	+97 -102	-	+65 -65	+97 -102	-	-	+100 -100	-	+161 -161	-	-	
	132" to 150"	+97 -102	-	+65 -65	+97 -102	-	-	+100 -100	-	-	-	-	
	156" to 252"	-	-	-	-	-	-	+100 -100	-	-	-	-	

D.L.O.
HEIGHT

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NOTE:
GLASS CAPACITIES ON THIS SHEET ARE BASED
ON ASTM E1300-09 (3 SEC. GUSTS).

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PROJECT :

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CLIENT :

CRAWFORD TRACEY
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REVISION

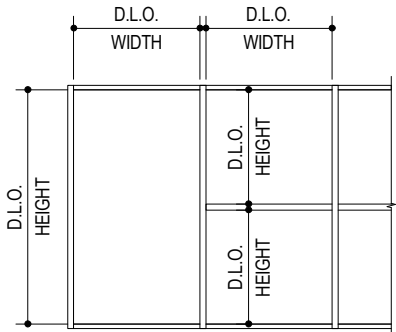
No.	DATE	BY	DESCRIPTION
Date:	06-15-2026		
Scale:	N/A		
Drawn by:	SA		
Check by:	PK		
Drawing no.	JA-1749-23		
Eng: JAVAD AHMAD, PE CIVIL FLA. PE # 70592 - C.A.N.34254			
JAVAD AHMAD LICENSE No 70592 STATE OF FLORIDA PROFESSIONAL ENGINEER SEALED: 06-17-2026			
06		OF 34	

GLASS LOAD TABLES (L.M.I.) (CONT.)	FL#29520.1
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FL#29520.1

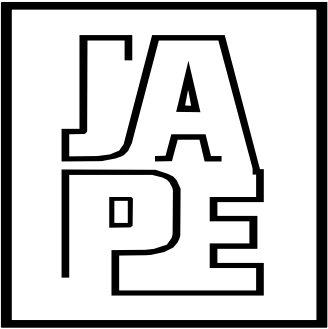
GLASS LOAD CAPACITY (PSF) - L.M.I.

D.L.O		L1 & L1A EXT.(+) INT.(-)	L2 & L2A EXT.(+) INT.(-)	L3 & L3A EXT.(+) INT.(-)	L4 & L4A EXT.(+) INT.(-)	L5 & L5A EXT.(+) INT.(-)	L6 & L6A EXT.(+) INT.(-)	L7 EXT.(+) INT.(-)	L8 & L8A EXT.(+) INT.(-)	L9 EXT.(+) INT.(-)	L10 EXT.(+) INT.(-)	L11 & L11A EXT.(+) INT.(-)
WIDTH OR HEIGHT (IN.)	WIDTH OR HEIGHT (IN.)											
78"	78"	+115 -115	+100 -100	+60 -60	+90 -94	+120 -120	+61 -61	+100 -100	-	+148 -148	+150 -150	-
	84"	+113 -113	+100 -100	+60 -60	+90 -94	+120 -120	+61 -61	+100 -100	-	+148 -148	+150 -150	-
	90" to 96"	+90 -94	-	+60 -60	+90 -94	-	+61 -61	+100 -100	-	+148 -148	+150 -150	-
	102"	+90 -94	-	+60 -60	+90 -94	-	-	+100 -100	-	+148 -148	+150 -150	-
	108"	+90 -94	-	+60 -60	+90 -94	-	-	+100 -100	-	+148 -148	-	-
	114" to 138"	+90 -94	-	+60 -60	+90 -94	-	-	+100 -100	-	-	-	-
	144" to 252"	-	-	-	-	-	-	+100 -100	-	-	-	-
84"	84" to 90"	+83 -87	-	+55 -55	+83 -87	-	+57 -57	+100 -100	-	+138 -138	+150 -150	-
	96"	+83 -87	-	+55 -55	+83 -87	-	-	+100 -100	-	+138 -138	+150 -150	-
	102"	+83 -87	-	+55 -55	+83 -87	-	-	+100 -100	-	+138 -138	-	-
	108" to 126"	+83 -87	-	+55 -55	+83 -87	-	-	+100 -100	-	-	-	-
	132" to 246"	-	-	-	-	-	-	+100 -100	-	-	-	-
90"	90" to 96"	+78 -81	-	+52 -52	+78 -81	-	-	+100 -100	-	+129 -129	+150 -150	-
	102" to 120"	+78 -81	-	+52 -52	+78 -81	-	-	+100 -100	-	-	-	-
	126" to 228"	-	-	-	-	-	-	+100 -100	-	-	-	-
96"	96" to 114"	+73 -76	-	+48 -48	+73 -76	-	-	+100 -100	-	-	-	-
	120" to 216"	-	-	-	-	-	-	+100 -100	-	-	-	-
102"	102" to 108"	+68 -72	-	+45 -45	+68 -72	-	-	+100 -100	-	-	-	-
	114" to 204"	-	-	-	-	-	-	+100 -100	-	-	-	-
108"	108" to 192"	-	-	-	-	-	-	+98 -98	-	-	-	-
114"	114" to 180"	-	-	-	-	-	-	+93 -93	-	-	-	-
120"	120" to 174"	-	-	-	-	-	-	+88 -88	-	-	-	-
126"	126" to 162"	-	-	-	-	-	-	+84 -84	-	-	-	-
132"	132" to 156"	-	-	-	-	-	-	+80 -80	-	-	-	-
138"	138" to 150"	-	-	-	-	-	-	+77 -77	-	-	-	-
144"	144"	-	-	-	-	-	-	+74 -74	-	-	-	-
150"	24"	+120 -145	+100 -100	+80 -80	+120 -126	+120 -120	+100 -100	+100 -100	-	+175 -175	-	+80 -80
	30" to 36"	+120 -145	+100 -100	+80 -80	+120 -126	+120 -120	+100 -100	+100 -100	-	+175 -175	-	-
	42"	+120 -126	+100 -100	+80 -80	+120 -126	+120 -120	+100 -100	+100 -100	-	+175 -175	-	-
	48"	+120 -126	-	+80 -80	+120 -126	-	+100 -100	+100 -100	-	+175 -175	-	-
	54"	+120 -126	-	+80 -80	+120 -126	-	-	+100 -100	-	+175 -175	-	-
	58 1/2"	+120 -126	-	+80 -80	+120 -126	-	-	+100 -100	-	-	-	-
	60"	+117 -122	-	+78 -78	+117 -122	-	-	+100 -100	-	-	-	-
	66"	+106 -111	-	+70 -70	+106 -111	-	-	+100 -100	-	-	-	-
	72"	+97 -102	-	+65 -65	+97 -102	-	-	+100 -100	-	-	-	-
	78" to 102"	-	-	-	-	-	-	+100 -100	-	-	-	-
	108"	-	-	-	-	-	-	+98 -98	-	-	-	-
	114"	-	-	-	-	-	-	+93 -93	-	-	-	-
	120"	-	-	-	-	-	-	+88 -88	-	-	-	-
	126"	-	-	-	-	-	-	+84 -84	-	-	-	-
	132"	-	-	-	-	-	-	+80 -80	-	-	-	-
138"	-	-	-	-	-	-	+77 -77	-	-	-	-	



NOTE:
GLASS CAPACITIES ON THIS SHEET ARE BASED
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NOTE:
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PROJECT :

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CLIENT :

CRAWFORD TRACEY
CORPORATION

3301 S.W. 13TH DR.,
DEERFIELD BEACH, FL 33442
(954) 698-6888

REVISION

No.	DATE	BY	DESCRIPTION

Date:	06-15-2026
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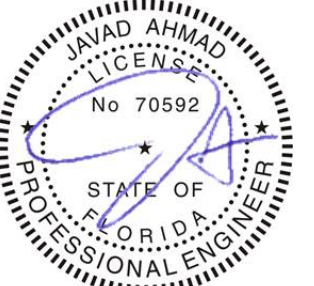
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Drawn by:	DK
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Check by:	PK
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Drawing no.	JA-1749-23
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Eng: JAVAD AHMAD, PE
CIVIL FLA. PE # 70592 - C.A.N.34254



SEALED: 06-17-2026

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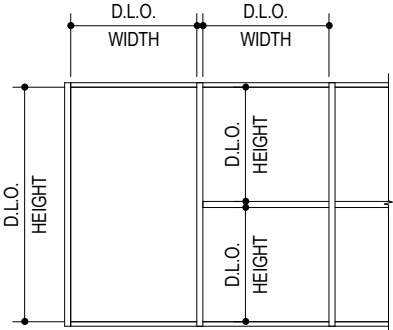
OF 34

GLASS LOAD TABLES (L.M.I.) (CONT.)	FL#29520.1
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FL#29520.1

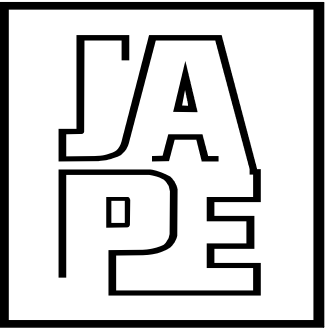
GLASS LOAD CAPACITY (PSF) - L.M.I.

D.L.O		L1 & L1A EXT.(+) INT.(-)	L2 & L2A EXT.(+) INT.(-)	L3 & L3A EXT.(+) INT.(-)	L4 & L4A EXT.(+) INT.(-)	L5 & L5A EXT.(+) INT.(-)	L6 & L6A EXT.(+) INT.(-)	L7 EXT.(+) INT.(-)	L8 & L8A EXT.(+) INT.(-)	L9 EXT.(+) INT.(-)	L10 EXT.(+) INT.(-)	L11 & L11A EXT.(+) INT.(-)
WIDTH OR HEIGHT (IN.)	WIDTH OR HEIGHT (IN.)											
156"	24"	+120 -145	+100 -100	+80 -80	+120 -126	+120 -120	+100 -100	+100 -100	-	+175 -175	-	+80 -80
	30" to 36"	+120 -145	+100 -100	+80 -80	+120 -126	+120 -120	+100 -100	+100 -100	-	+175 -175	-	-
	42"	+120 -126	+100 -100	+80 -80	+120 -126	-	+100 -100	+100 -100	-	+175 -175	-	-
	48"	+120 -126	-	+80 -80	+120 -126	-	+100 -100	+100 -100	-	+175 -175	-	-
	54"	+120 -126	-	+80 -80	+120 -126	-	-	+100 -100	-	+175 -175	-	-
	58 1/2"	+120 -126	-	+80 -80	+120 -126	-	-	+100 -100	-	-	-	-
	60"	+117 -122	-	+78 -78	+117 -122	-	-	+100 -100	-	-	-	-
	66"	+106 -111	-	+70 -70	+106 -111	-	-	+100 -100	-	-	-	-
	72" to 102"	-	-	-	-	-	-	+100 -100	-	-	-	-
	108"	-	-	-	-	-	-	+98 -98	-	-	-	-
	114"	-	-	-	-	-	-	+93 -93	-	-	-	-
	120"	-	-	-	-	-	-	+88 -88	-	-	-	-
	126"	-	-	-	-	-	-	+84 -84	-	-	-	-
132"	-	-	-	-	-	-	+80 -80	-	-	-	-	
162"	24"	+120 -145	+100 -100	+80 -80	+120 -126	+120 -120	+100 -100	+100 -100	-	+175 -175	-	+80 -80
	30" to 36"	+120 -145	+100 -100	+80 -80	+120 -126	+120 -120	+100 -100	+100 -100	-	+175 -175	-	-
	42"	+120 -126	+100 -100	+80 -80	+120 -126	-	+100 -100	+100 -100	-	+175 -175	-	-
	48"	+120 -126	-	+80 -80	+120 -126	-	+100 -100	+100 -100	-	+175 -175	-	-
	54"	+120 -126	-	+80 -80	+120 -126	-	-	+100 -100	-	+175 -175	-	-
	58 1/2"	+120 -126	-	+80 -80	+120 -126	-	-	+100 -100	-	-	-	-
	60"	+117 -122	-	+78 -78	+117 -122	-	-	+100 -100	-	-	-	-
	66"	+106 -111	-	+70 -70	+106 -111	-	-	+100 -100	-	-	-	-
	72" to 102"	-	-	-	-	-	-	+100 -100	-	-	-	-
	108"	-	-	-	-	-	-	+98 -98	-	-	-	-
	114"	-	-	-	-	-	-	+93 -93	-	-	-	-
	120"	-	-	-	-	-	-	+88 -88	-	-	-	-
	126"	-	-	-	-	-	-	+84 -84	-	-	-	-
168"	24"	+120 -145	+100 -100	+80 -80	+120 -126	+120 -120	+100 -100	+100 -100	-	+175 -175	-	+80 -80
	30"	+120 -145	+100 -100	+80 -80	+120 -126	+120 -120	+100 -100	+100 -100	-	+175 -175	-	-
	36"	+120 -126	+100 -100	+80 -80	+120 -126	+120 -120	+100 -100	+100 -100	-	+175 -175	-	-
	42" to 48"	+120 -126	-	+80 -80	+120 -126	-	+100 -100	+100 -100	-	+175 -175	-	-
	54"	+120 -126	-	+80 -80	+120 -126	-	-	+100 -100	-	+175 -175	-	-
	58 1/2"	+120 -126	-	+80 -80	+120 -126	-	-	+100 -100	-	-	-	-
	60"	+117 -122	-	+78 -78	+117 -122	-	-	+100 -100	-	-	-	-
	66" to 102"	-	-	-	-	-	-	+100 -100	-	-	-	-
	108"	-	-	-	-	-	-	+98 -98	-	-	-	-
	114"	-	-	-	-	-	-	+93 -93	-	-	-	-
	120"	-	-	-	-	-	-	+88 -88	-	-	-	-



NOTE:
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REVISION

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Scale:	N/A
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Drawn by:	SA
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Check by:	PK
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Drawing no.	JA-1749-23
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Eng: JAVAD AHMAD, PE
CIVIL FLA. PE # 70592 - C.A.N.34254



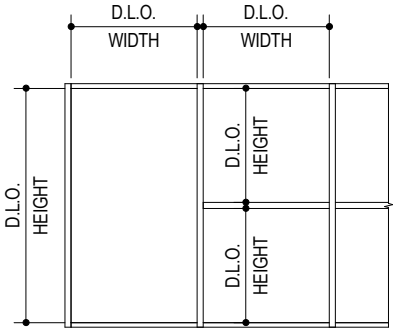
SEALED: 06-17-2026

GLASS LOAD TABLES (L.M.I.) (CONT.)	FL#29520.1
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FL#29520.1

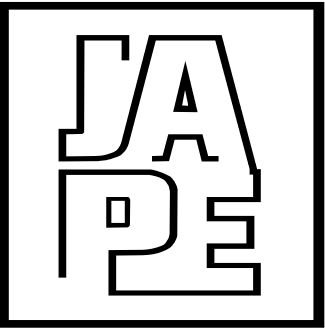
GLASS LOAD CAPACITY (PSF) - L.M.I.

D.L.O		L1 & L1A EXT.(+) INT.(-)	L2 & L2A EXT.(+) INT.(-)	L3 & L3A EXT.(+) INT.(-)	L4 & L4A EXT.(+) INT.(-)	L5 & L5A EXT.(+) INT.(-)	L6 & L6A EXT.(+) INT.(-)	L7 EXT.(+) INT.(-)	L8 & L8A EXT.(+) INT.(-)	L9 EXT.(+) INT.(-)	L10 EXT.(+) INT.(-)	L11 & L11A EXT.(+) INT.(-)
WIDTH OR HEIGHT (IN.)	WIDTH OR HEIGHT (IN.)											
174"	24"	+120 -145	+100 -100	+80 -80	+120 -126	+120 -120	-	+100 -100	-	+175 -175	-	+80 -80
	30"	+120 -145	+100 -100	+80 -80	+120 -126	+120 -120	-	+100 -100	-	+175 -175	-	-
	36"	+120 -126	+100 -100	+80 -80	+120 -126	+120 -120	-	+100 -100	-	+175 -175	-	-
	42"	+120 -126	-	+80 -80	+120 -126	-	-	+100 -100	-	+175 -175	-	-
	48" to 58 1/2"	+120 -126	-	+80 -80	+120 -126	-	-	+100 -100	-	-	-	-
	60"	+117 -122	-	+78 -78	+117 -122	-	-	+100 -100	-	-	-	-
	66" to 102"	-	-	-	-	-	-	+100 -100	-	-	-	-
	108"	-	-	-	-	-	-	+98 -98	-	-	-	-
	114"	-	-	-	-	-	-	+93 -93	-	-	-	-
120"	-	-	-	-	-	-	+88 -88	-	-	-	-	
180"	24" to 30"	+120 -145	+100 -100	+80 -80	+120 -126	+120 -120	-	+100 -100	-	+175 -175	-	-
	36" to 42"	+120 -126	-	+80 -80	+120 -126	-	-	+100 -100	-	+175 -175	-	-
	48" to 58 1/2"	+120 -126	-	+80 -80	+120 -126	-	-	+100 -100	-	-	-	-
	60"	+117 -122	-	+78 -78	+117 -122	-	-	+100 -100	-	-	-	-
	66" to 102"	-	-	-	-	-	-	+100 -100	-	-	-	-
	108"	-	-	-	-	-	-	+98 -98	-	-	-	-
	114"	-	-	-	-	-	-	+93 -93	-	-	-	-
186" to 189"	24" to 30"	+120 -145	+100 -100	+80 -80	+120 -126	+120 -120	-	+100 -100	-	+175 -175	-	-
	36" to 42"	+120 -126	-	+80 -80	+120 -126	-	-	+100 -100	-	+175 -175	-	-
	48" to 58 1/2"	+120 -126	-	+80 -80	+120 -126	-	-	+100 -100	-	-	-	-
	60" to 102"	-	-	-	-	-	-	+100 -100	-	-	-	-
	108"	-	-	-	-	-	-	+98 -98	-	-	-	-
192"	24 to 30"	+120 -145	+100 -100	-	+120 -126	+120 -120	-	+100 -100	-	+175 -175	-	-
	36" to 42"	+120 -126	-	-	+120 -126	-	-	+100 -100	-	+175 -175	-	-
	48" to 54"	+120 -126	-	-	+120 -126	-	-	+100 -100	-	-	-	-
	48" to 58 1/2"	-	-	-	-	-	-	+100 -100	-	-	-	-
	108"	-	-	-	-	-	-	+98 -98	-	-	-	-
198" to 204"	24" to 30"	+120 -126	+100 -100	-	+120 -126	+120 -120	-	+100 -100	-	+175 -175	-	-
	36" to 42"	+120 -126	-	-	+120 -126	-	-	+100 -100	-	+175 -175	-	-
	48" to 54"	+120 -126	-	-	+120 -126	-	-	+100 -100	-	-	-	-
	58 1/2" to 102"	-	-	-	-	-	-	+100 -100	-	-	-	-
210"	24" to 30"	+120 -126	+100 -100	-	+120 -126	+120 -120	-	+100 -100	-	-	-	-
	36" to 48"	+120 -126	-	-	+120 -126	-	-	+100 -100	-	-	-	-
	54" to 96"	-	-	-	-	-	-	+100 -100	-	-	-	-
216"	24" to 48"	+120 -126	-	-	+120 -126	-	-	+100 -100	-	-	-	-
	54" to 96"	-	-	-	-	-	-	+100 -100	-	-	-	-
222" to 228"	24" to 48"	+120 -126	-	-	+120 -126	-	-	+100 -100	-	-	-	-
	54" to 90"	-	-	-	-	-	-	+100 -100	-	-	-	-
233" to 246"	24" to 42"	+120 -126	-	-	+120 -126	-	-	+100 -100	-	-	-	-
	48" to 84"	-	-	-	-	-	-	+100 -100	-	-	-	-
252"	24" to 42"	+120 -126	-	-	+120 -126	-	-	+100 -100	-	-	-	-
	48" to 78"	-	-	-	-	-	-	+100 -100	-	-	-	-



NOTE:
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REVISION

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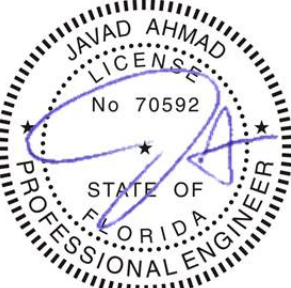
Scale:	N/A
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Drawn by:	SA
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Check by:	PK
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Drawing no.	JA-1749-23
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Eng: JAVAD AHMAD, PE
CIVIL FLA. PE # 70592 - C.A.N.34254



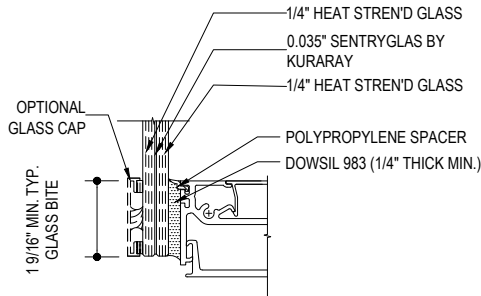
SEALED: 06-17-2026

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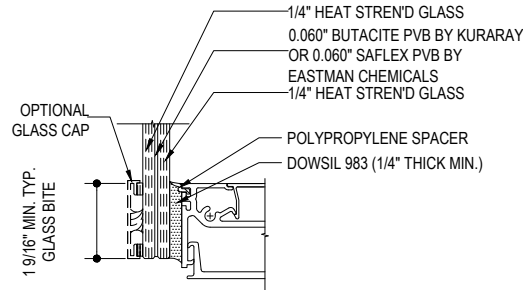
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GLASS TYPES (S.M.I.)

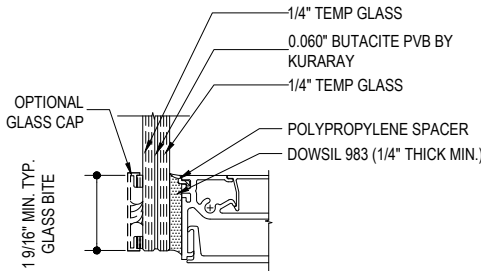
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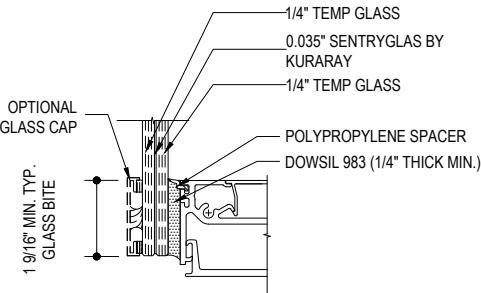
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9/16" THK. LAM. GLASS
(S.M.I.)



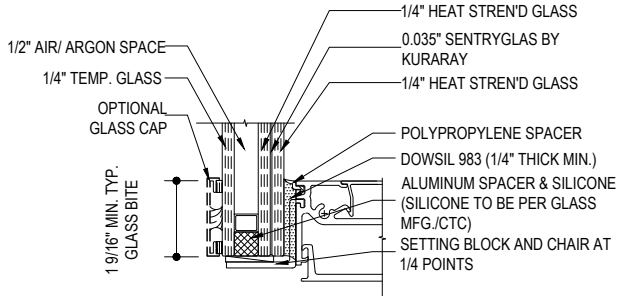
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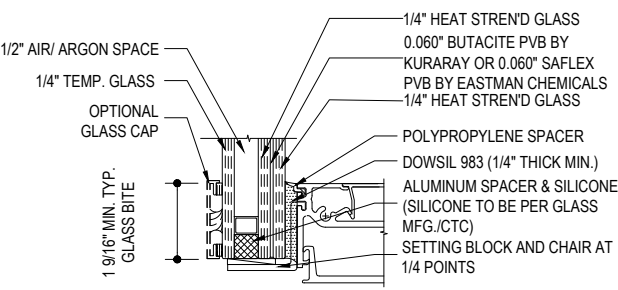
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(S.M.I.)



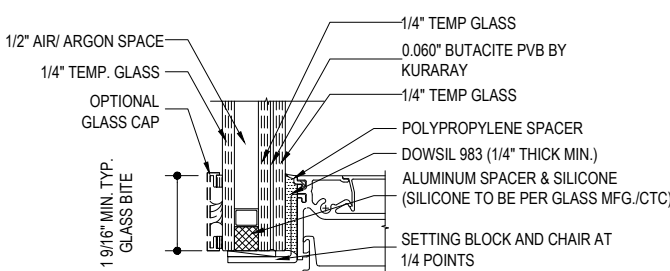
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9/16" THK. LAM. GLASS
(S.M.I.)



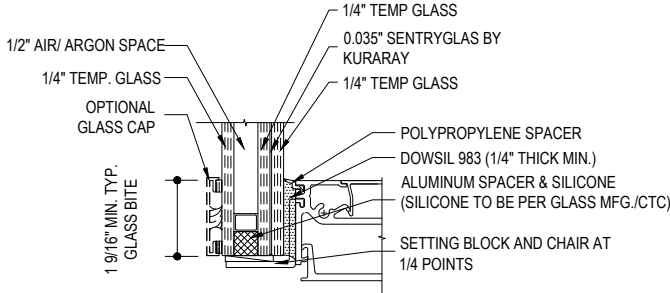
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1-5/16" THK. INSUL LAM. GLASS
(S.M.I.)



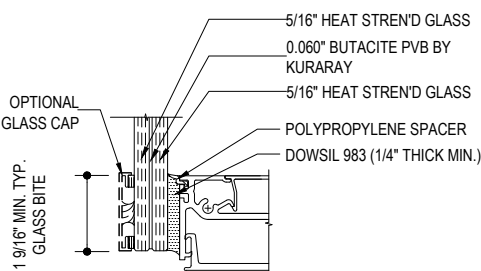
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(S.M.I.)



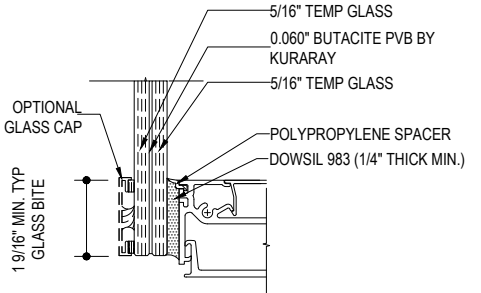
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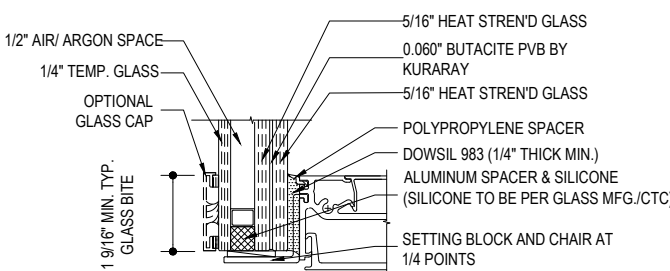
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(S.M.I.)



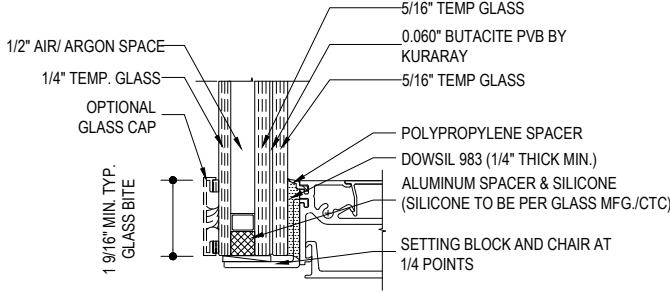
GLASS TYPE 'S5'
11/16" THK. LAM. GLASS
(S.M.I.)



GLASS TYPE 'S6'
11/16" THK. LAM. GLASS
(S.M.I.)



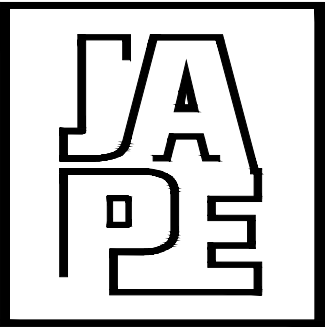
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1-7/16" THK. INSUL LAM. GLASS
(S.M.I.)



GLASS TYPE 'S6A'
1-7/16" THK. INSUL LAM. GLASS
(S.M.I.)

GLASS TYPE NOTES:

- ASTM E1300:** ALL GLASS TYPES SHOWN COMPLY WITH ASTM E1300.
- GEOMTRICAL SHAPES:** GLAZED GEOMTRICAL SHAPES MAY BE USED, PROVIDED THEY FIT INSIDE THE APPROVED INSCRIBED SIZES SHOWN ON THE GLASS LOADING TABLES.
- REDUCED GLASS BITE:** GLAZING DETAILS WITH A SILICONE BITE OF 1-9/16" ARE PERMITTED TO BE DECREASED TO A MINIMUM OF 1-3/8" SILICONE BITE, PROVIDED THE ALLOWABLE PRESSURES SHOWN ON THE GLASS LOADING TABLES ARE DECREASED BY 16%.
- CERAMIC FRIT:** OPTION OF .019" CERAMIC FRIT ON ROOM SIDE SURFACE OF INNER PANE OF GLASS IS ALLOWED.
- GLASS ORIENTATION:** GLASS MAY BE VERTICALLY OR HORIZONTALLY ORIENTED.
- SLOPED SYSTEMS:** SLOPED SYSTEMS SHALL BE DESIGNED ON A SITE SPECIFIC BASIS WITH APPROVAL FROM A LICENSED PROFESSIONAL ENGINEER AND THE PRODUCT MANUFACTURER.
- CAPS & FINS:** OPTIONAL GLASS CAPS, FINS, OR SIMILAR ACCESSORIES OF VARIOUS SIZES MAY BE ATTACHED WITH STRUCTURAL SILICONE, BASED ON SITE SPECIFIC ENGINEERING FROM A LICENSED PROFESSIONAL ENGINEER.
- GLASS EXTENSIONS:** CONDITIONS WHERE GLASS EXTENDS PAST THE FRAME ARE ALLOWED. THIS CONDITION SHALL REQUIRE APPROVAL BY A LICENSED PROFESSIONAL ENGINEER.
- NON-IMPACT GLASS:** NON-IMPACT GLASS TO DESIGNED ON A SITE SPECIFIC BASIS AND APPROVED BY A LICENSED PROFESSIONAL ENGINEER.
- THICKER GLASS:** THICKER GLASS LITES MAY BE USED IN THE SAME CONFIGURATIONS AS SHOWN, AS REQUIRED ON A SITE SPECIFIC BASIS AND SHALL BE APPROVED BY A LICENSED PROFESSIONAL ENGINEER.
- CURVED GLASS:** CURVED OR BENT GLASS MAY BE USED IN THE SAME CONFIGURATIONS AS SHOWN, IN ACCORDANCE WITH SITE SPECIFIC REQUIREMENTS. IF CURVED OR BENT GLASS IS USED, IT SHALL BE CHECKED AND APPROVED BY A LICENSED PROFESSIONAL ENGINEER AND THE PRODUCT MANUFACTURER. FINAL APPROVAL SHALL BE GIVEN BY AUTHORITY HAVING JURISDICTION.
- MONOLITHIC GLASS:** NON-LAMINATED MONOLITHIC GLASS MAY BE USED IN PLACE OF THE LAMINATED OPTIONS SHOWN GIVEN THAT THE GLASS TO BE USED IS LABELED AS "NON-IMPACT RESISTANT" AND IS DESIGNED TO MEET ASTM E1300 STANDARDS. THE SUBSTITUTED GLAZING MUST BE CHECKED AND APPROVED BY A LICENSED PROFESSIONAL ENGINEER AND THE PRODUCT MANUFACTURER.
- INSULATED GLASS UNIT (IGU) AIR SPACE:** FOR INSULATED GLASS UNITS, THE AIR SPACE WIDTH CAN BE INCREASED ON A SITE SPECIFIC BASIS WITH APPROVAL FROM A LICENSED PROFESSIONAL ENGINEER AND THE PRODUCT MANUFACTURER.



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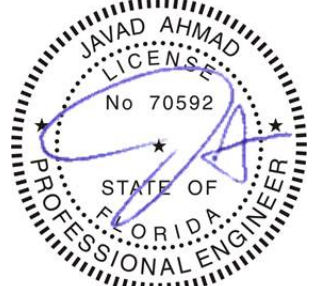
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Drawn by: SA

Check by: PK

Drawing no. JA-1749-23

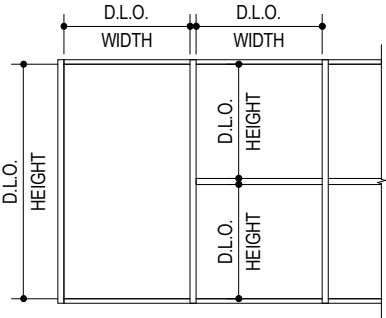
Eng: JAVAD AHMAD, PE
CIVIL FLA. PE # 70592 - C.A.N.34254



SEALED: 06-17-2026

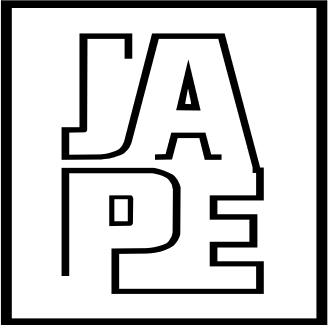
GLASS LOAD CAPACITY (PSF) - S.M.I.							
D.L.O		S1 & S1A EXT.(+) INT.(-)	S2 & S2A EXT.(+) INT.(-)	S3 & S3A EXT.(+) INT.(-)	S4 & S4A EXT.(+) INT.(-)	S5 & S5A EXT.(+) INT.(-)	S6 & S6A EXT.(+) INT.(-)
WIDTH OR HEIGHT (IN.)	WIDTH OR HEIGHT (IN.)						
24"	24" to 114"	+120 -145	+120 -132	+120 -126	+160 -150	+120 -132	+120 -132
	120" to 126"	+120 -145	+120 -132	+120 -126	-	+120 -132	+120 -132
	132 "to 162"	+120 -120	+120 -132	+120 -126	-	+120 -132	+120 -132
	168" to 233"	-	+120 -132	+120 -126	-	+120 -132	+120 -132
	240" to 252"	-	+120 -132	+120 -126	-	-	+120 -132
30"	30" to 114"	+120 -145	+120 -132	+120 -126	+160 -150	+120 -132	+120 -132
	120" to 126"	+120 -120	+120 -132	+120 -126	+160 -150	+120 -132	+120 -132
	132" to 162"	+120 -120	+120 -132	+120 -126	-	+120 -132	+120 -132
	168" to 233"	-	+120 -132	+120 -126	-	+120 -132	+120 -132
	240" to 252"	-	+120 -132	+120 -126	-	-	+120 -132
36"	36" to 108"	+120 -145	+120 -132	+120 -126	+160 -150	+120 -132	+120 -132
	114"	+120 -120	+120 -132	+120 -126	+160 -150	+120 -132	+120 -132
	120" to 162"	+120 -120	+120 -132	+120 -126	-	+120 -132	+120 -132
	168" to 233"	-	+120 -132	+120 -126	-	+120 -132	+120 -132
	240" to 252"	-	+120 -132	+120 -126	-	-	+120 -132
42"	42" to 90"	+120 -145	+120 -132	+120 -126	+160 -150	+120 -132	+120 -132
	96" to 114"	+120 -120	+120 -132	+120 -126	+160 -150	+120 -132	+120 -132
	120" to 150"	+120 -120	+120 -132	+120 -126	-	+120 -132	+120 -132
	156" to 233"	-	+120 -132	+120 -126	-	+120 -132	+120 -132
	240 to 252	-	+120 -132	+120 -126	-	-	+120 -132
48"	48" to 90"	+120 -145	+120 -132	+120 -126	+160 -150	+120 -132	+120 -132
	96" to 114"	+120 -120	+120 -132	+120 -126	+160 -150	+120 -132	+120 -132
	120" to 126"	+120 -120	+120 -132	+120 -126	-	+120 -132	+120 -132
	132"	+116 -116	+120 -132	+120 -126	-	+120 -132	+120 -132
	138"	+112 -112	+120 -132	+120 -126	-	+120 -132	+120 -132
	144" to 233"	-	+120 -132	+120 -126	-	+120 -132	+120 -132
	240"	-	+120 -132	+120 -126	-	-	+120 -132
	246" to 252"	-	+120 -132	-	-	-	+120 -132
54"	54" to 78"	+120 -145	+120 -132	+120 -126	+160 -150	+120 -132	+120 -132
	84" to 108"	+120 -120	+120 -132	+120 -126	+160 -150	+120 -132	+120 -132
	114"	+116 -116	+120 -132	+120 -126	+160 -150	+120 -132	+120 -132
	120"	+112 -112	+120 -132	+120 -126	-	+120 -132	+120 -132
	126"	+108 -108	+120 -132	+120 -126	-	+120 -132	+120 -132
	132" to 233"	-	+120 -132	+120 -126	-	+120 -132	+120 -132
	240"	-	+120 -132	+120 -126	-	-	+120 -132
	246" to 252"	-	+120 -132	-	-	-	+120 -132
58 1/2"	58 1/2" to 72"	+120 -145	+120 -132	+120 -126	+160 -150	+120 -132	+120 -132
	78" to 96"	+120 -120	+120 -132	+120 -126	+160 -150	+120 -132	+120 -132
	102"	+119 -119	+120 -132	+120 -126	+160 -150	+120 -132	+120 -132
	108"	+113 -113	+120 -132	+120 -126	+160 -150	+120 -132	+120 -132
	114" to 233"	-	+120 -132	+120 -126	-	+120 -132	+120 -132
	240"	-	+120 -132	+120 -126	-	-	+120 -132

GLASS LOAD CAPACITY (PSF) - S.M.I.							
D.L.O		S1 & S1A EXT.(+) INT.(-)	S2 & S2A EXT.(+) INT.(-)	S3 & S3A EXT.(+) INT.(-)	S4 & S4A EXT.(+) INT.(-)	S5 & S5A EXT.(+) INT.(-)	S6 & S6A EXT.(+) INT.(-)
WIDTH OR HEIGHT (IN.)	WIDTH OR HEIGHT (IN.)						
60"	60" to 66"	+120 -145	+120 -132	+120 -126	+160 -150	+117 -128	+120 -132
	72" to 96"	+120 -120	+120 -132	+120 -126	+160 -150	+117 -128	+120 -132
	102"	+119 -119	+120 -132	+120 -126	+160 -150	+117 -128	+120 -132
	108"	+110 -110	+120 -132	+120 -126	+160 -150	+117 -128	+120 -132
	114" to 222"	-	+120 -132	+120 -126	-	+117 -128	+120 -132
	228" to 240"	-	+120 -132	+120 -126	-	-	+120 -132
66"	66"	+120 -145	+111 -123	+111 -117	+160 -150	+106 -117	+111 -123
	72" to 96"	+120 -120	+111 -123	+111 -117	+160 -150	+106 -117	+111 -123
	102"	+115 -115	+111 -123	+111 -117	-	+106 -117	+111 -123
	108" to 204"	-	+111 -123	+111 -117	-	+106 -117	+111 -123
72"	210" to 216"	-	+111 -123	+111 -117	-	-	+111 -123
	72" to 90"	+120 -120	+102 -112	+102 -107	+160 -150	+97 -107	+102 -112
	96" to 189"	-	+102 -112	+102 -107	-	+97 -107	+102 -112
78"	192"	-	+102 -112	+102 -107	-	-	+102 -112
	78"	+120 -120	+94 -104	+94 -99	+160 -150	+90 -99	+94 -104
	84"	+115 -115	+94 -104	+94 -99	+160 -150	+90 -99	+94 -104
84"	90" to 174"	-	+94 -104	+94 -99	-	+90 -99	+94 -104
	180"	-	+94 -104	+94 -99	-	-	+94 -104
	84" to 162"	-	+87 -96	+87 -92	-	+83 -91	+87 -96
90"	168"	-	+87 -96	+87 -92	-	-	+87 -96
	90" to 150"	-	+82 -90	+82 -86	-	+78 -85	+82 -90
96"	156"	-	+82 -90	+82 -86	-	-	+82 -90
	96" to 138"	-	+76 -84	+76 -80	-	+73 -80	+76 -84
102"	144" to 150"	-	+76 -84	+76 -80	-	-	+76 -84
	102" to 132"	-	+72 -79	+72 -75	-	+68 -75	+72 -79
108"	108" to 126"	-	+68 -75	+68 -71	-	+65 -71	+68 -75
	132"	-	+68 -75	+68 -71	-	-	+68 -75
114"	114"	-	+64 -71	+64 -67	-	+61 -67	+64 -71
	120"	-	+64 -71	+64 -67	-	-	+64 -71
120"	120"	-	+61 -67	+61 -64	-	-	+61 -67



NOTE:
GLASS CAPACITIES ON THIS SHEET ARE BASED
ON ASTM E1300-09 (3 SEC. GUSTS).

NOTE:
ALL PRESSURES SHOWN ON THIS SHEET ARE
ALLOWABLE PRESSURES (ASD).



JAVAD AHMAD PE, inc

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ENVELOPE • SYSTEM DESIGN • PRODUCT APPROVALS

PROJECT :

PRO-TECH 14SG ALUMINUM
CURTAINWALL SYSTEM

CLIENT :

CRAWFORD TRACEY
CORPORATION

3301 S.W. 13TH DR.,
DEERFIELD BEACH, FL 33442
(954) 698-6888

REVISION

No.	DATE	BY	DESCRIPTION

Date: 06-15-2026

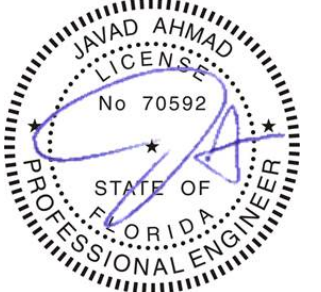
Scale: N/A

Drawn by: SA

Check by: PK

Drawing no. JA-1749-23

Eng: JAVAD AHMAD, PE
CIVIL FLA. PE # 70592 - C.A.N.34254



SEALED: 06-17-2026

GLASS LOAD TABLES (S.M.I.) (CONT.)										FL#29520.1		
GLASS LOAD CAPACITY (PSF) - S.M.I.												
D.L.O		S1 & S1A EXT.(+) INT.(-)	S2 & S2A EXT.(+) INT.(-)	S3 & S3A EXT.(+) INT.(-)	S4 & S4A EXT.(+) INT.(-)	S5 & S5A EXT.(+) INT.(-)	S6 & S6A EXT.(+) INT.(-)					
D.L.O	WIDTH OR HEIGHT (IN.)											
126"	24 "to 30"	+120 -145	+120 -132	+120 -126	-	+120 -132	+120 -132					
	36" to 48"	+120 -120	+120 -132	+120 -126	-	+120 -132	+120 -132					
	54"	+108 -108	+120 -132	+120 -126	-	+120 -132	+120 -132					
	58 1/2"	-	+120 -132	+120 -126	-	+120 -132	+120 -132					
	60"	-	+120 -132	+120 -126	-	+117 -128	+120 -132					
	66"	-	+111 -123	+111 -117	-	+106 -117	+111 -123					
	72"	-	+102 -112	+102 -107	-	+97 -107	+102 -112					
	78"	-	+94 -104	+94 -99	-	+90 -99	+94 -104					
	84"	-	+87 -96	+87 -92	-	+83 -91	+87 -96					
	90"	-	+82 -90	+82 -86	-	+78 -85	+82 -90					
	96"	-	+76 -84	+76 -80	-	+73 -80	+76 -84					
	102"	-	+72 -79	+72 -75	-	+68 -75	+72 -79					
132"	24" to 42"	+120 -120	+120 -132	+120 -126	-	+120 -132	+120 -132					
	48"	+116 -116	+120 -132	+120 -126	-	+120 -132	+120 -132					
	54" to 58 1/2"	-	+120 -132	+120 -126	-	+120 -132	+120 -132					
	60"	-	+120 -132	+120 -126	-	+117 -128	+120 -132					
	66"	-	+111 -123	+111 -117	-	+106 -117	+111 -123					
	72"	-	+102 -112	+102 -107	-	+97 -107	+102 -112					
	78"	-	+94 -104	+94 -99	-	+90 -99	+94 -104					
	84"	-	+87 -96	+87 -92	-	+83 -91	+87 -96					
	90"	-	+82 -90	+82 -86	-	+78 -85	+82 -90					
	96"	-	+76 -84	+76 -80	-	+73 -80	+76 -84					
	102"	-	+72 -79	+72 -75	-	+68 -75	+72 -79					
	108"	-	+68 -75	+68 -71	-	-	+68 -75					
138"	24" to 42"	+120 -120	+120 -132	+120 -126	-	+120 -132	+120 -132					
	48"	+112 -112	+120 -132	+120 -126	-	+120 -132	+120 -132					
	54" to 58 1/2"	-	+120 -132	+120 -126	-	+120 -132	+120 -132					
	60"	-	+120 -132	+120 -126	-	+117 -128	+120 -132					
	66"	-	+111 -123	+111 -117	-	+106 -117	+111 -123					
	72"	-	+102 -112	+102 -107	-	+97 -107	+102 -112					
	78"	-	+94 -104	+94 -99	-	+90 -99	+94 -104					
	84"	-	+87 -96	+87 -92	-	+83 -91	+87 -96					
	90"	-	+82 -90	+82 -86	-	+78 -85	+82 -90					
	96"	-	+76 -84	+76 -80	-	+73 -80	+76 -84					
	144"	24" to 42"	+120 -120	+120 -132	+120 -126	-	+120 -132	+120 -132				
		42" to 58 1/2"	-	+120 -132	+120 -126	-	+120 -132	+120 -132				
60"		-	+120 -132	+120 -126	-	+117 -128	+120 -132					
66"		-	+111 -123	+111 -117	-	+106 -117	+111 -123					
72"		-	+102 -112	+102 -107	-	+97 -107	+102 -112					
78"		-	+94 -104	+94 -99	-	+90 -99	+94 -104					
84"		-	+87 -96	+87 -92	-	+83 -91	+87 -96					
90"		-	+82 -90	+82 -86	-	+78 -85	+82 -90					
96"		-	+76 -84	+76 -80	-	-	+76 -84					

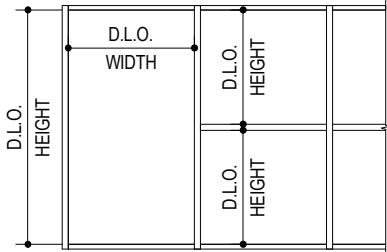
GLASS LOAD CAPACITY (PSF) - S.M.I.											
D.L.O		S1 & S1A EXT.(+) INT.(-)	S2 & S2A EXT.(+) INT.(-)	S3 & S3A EXT.(+) INT.(-)	S4 & S4A EXT.(+) INT.(-)	S5 & S5A EXT.(+) INT.(-)	S6 & S6A EXT.(+) INT.(-)				
WIDTH OR HEIGHT (IN.)	WIDTH OR HEIGHT (IN.)										
150"	24" to 42"	+120 -120	+120 -132	+120 -126	-	+120 -132	+120 -132				
	42" to 58 1/2"	-	+120 -132	+120 -126	-	+120 -132	+120 -132				
	60"	-	+120 -132	+120 -126	-	+117 -128	+120 -132				
	66"	-	+111 -123	+111 -117	-	+106 -117	+111 -123				
	72"	-	+102 -112	+102 -107	-	+97 -107	+102 -112				
	78"	-	+94 -104	+94 -99	-	+90 -99	+94 -104				
	84"	-	+87 -96	+87 -92	-	+83 -91	+87 -96				
	90"	-	+82 -90	+82 -86	-	+78 -85	+82 -90				
	96"	-	+76 -84	+76 -80	-	-	+76 -84				
	156"	24" to 36"	+120 -120	+120 -132	+120 -126	-	+120 -132	+120 -132			
42" to 58 1/2"		-	+120 -132	+120 -126	-	+120 -132	+120 -132				
60"		-	+120 -132	+120 -126	-	+117 -128	+120 -132				
66"		-	+111 -123	+111 -117	-	+106 -117	+111 -123				
72"		-	+102 -112	+102 -107	-	+97 -107	+102 -112				
78"		-	+94 -104	+94 -99	-	+90 -99	+94 -104				
84"		-	+87 -96	+87 -92	-	+83 -91	+87 -96				
168"	24" to 58 1/2"	-	+120 -132	+120 -126	-	+120 -132	+120 -132				
	60"	-	+120 -132	+120 -126	-	+117 -128	+120 -132				
	66"	-	+111 -123	+111 -117	-	+106 -117	+111 -123				
	72"	-	+102 -112	+102 -107	-	+97 -107	+102 -112				
	78"	-	+94 -104	+94 -99	-	+90 -99	+94 -104				
	84"	-	+87 -96	+87 -92	-	-	+87 -96				
	174" to 180"	24" to 58 1/2"	-	+120 -132	+120 -126	-	+120 -132	+120 -132			
60"		-	+120 -132	+120 -126	-	+117 -128	+120 -132				
66"		-	+111 -123	+111 -117	-	+106 -117	+111 -123				
72"		-	+102 -112	+102 -107	-	+97 -107	+102 -112				
78"		-	+94 -104	+94 -99	-	-	+94 -104				
186" to 192"	24" to 58 1/2"	-	+120 -132	+120 -126	-	+120 -132	+120 -132				
	60"	-	+120 -132	+120 -126	-	+117 -128	+120 -132				
	66"	-	+111 -123	+111 -117	-	+106 -117	+111 -123				
	72"	-	+102 -112	+102 -107	-	-	+102 -112				
198" to 216"	24" to 58 1/2"	-	+120 -132	+120 -126	-	+120 -132	+120 -132				
	60"	-	+120 -132	+120 -126	-	+117 -128	+120 -132				
	66"	-	+111 -123	+111 -117	-	-	+111 -123				
222" to 233"	24" to 58 1/2"	-	+120 -132	+120 -126	-	+120 -132	+120 -132				
	60"	-	+120 -132	+120 -126	-	-	+120 -132				
240"	24" to 60"	-	+120 -132	+120 -126	-	-	+120 -132				
246" to 252"	24" to 42"	-	+120 -132	+120 -126	-	-	+120 -132				
	48" to 54"	-	+120 -132	-	-	-	+120 -132				

D.L.O.
WIDTH

L.O.
HEIGHT

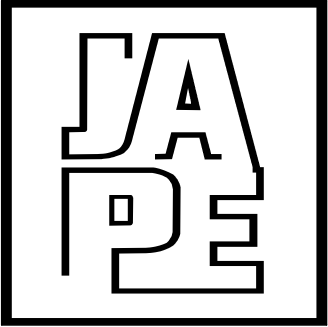
NOTE:
GLASS CAPACITIES ON THIS SHEET ARE BASED ON:

GLASS LOAD CAPACITY (PSF) - S.M.I.							
D.L.O		S1 & S1A EXT.(+) INT.(-)	S2 & S2A EXT.(+) INT.(-)	S3 & S3A EXT.(+) INT.(-)	S4 & S4A EXT.(+) INT.(-)	S5 & S5A EXT.(+) INT.(-)	S6 & S6A EXT.(+) INT.(-)
WIDTH OR HEIGHT (IN.)	WIDTH OR HEIGHT (IN.)						
150"	24" to 42"	+120 -120	+120 -132	+120 -126	-	+120 -132	+120 -132
	42" to 58 1/2"	-	+120 -132	+120 -126	-	+120 -132	+120 -132
	60"	-	+120 -132	+120 -126	-	+117 -128	+120 -132
	66"	-	+111 -123	+111 -117	-	+106 -117	+111 -123
	72"	-	+102 -112	+102 -107	-	+97 -107	+102 -112
	78"	-	+94 -104	+94 -99	-	+90 -99	+94 -104
	84"	-	+87 -96	+87 -92	-	+83 -91	+87 -96
	90"	-	+82 -90	+82 -86	-	+78 -85	+82 -90
	96"	-	+76 -84	+76 -80	-	-	+76 -84
156"	24" to 36"	+120 -120	+120 -132	+120 -126	-	+120 -132	+120 -132
	42" to 58 1/2"	-	+120 -132	+120 -126	-	+120 -132	+120 -132
	60"	-	+120 -132	+120 -126	-	+117 -128	+120 -132
	66"	-	+111 -123	+111 -117	-	+106 -117	+111 -123
	72"	-	+102 -112	+102 -107	-	+97 -107	+102 -112
	78"	-	+94 -104	+94 -99	-	+90 -99	+94 -104
168"	24" to 58 1/2"	-	+120 -132	+120 -126	-	+120 -132	+120 -132
	60"	-	+120 -132	+120 -126	-	+117 -128	+120 -132
	66"	-	+111 -123	+111 -117	-	+106 -117	+111 -123
	72"	-	+102 -112	+102 -107	-	+97 -107	+102 -112
	78"	-	+94 -104	+94 -99	-	+90 -99	+94 -104
	84"	-	+87 -96	+87 -92	-	-	+87 -96
174" to 180"	24" to 58 1/2"	-	+120 -132	+120 -126	-	+120 -132	+120 -132
	60"	-	+120 -132	+120 -126	-	+117 -128	+120 -132
	66"	-	+111 -123	+111 -117	-	+106 -117	+111 -123
	72"	-	+102 -112	+102 -107	-	+97 -107	+102 -112
	78"	-	+94 -104	+94 -99	-	-	+94 -104
186" to 192"	24" to 58 1/2"	-	+120 -132	+120 -126	-	+120 -132	+120 -132
	60"	-	+120 -132	+120 -126	-	+117 -128	+120 -132
	66"	-	+111 -123	+111 -117	-	+106 -117	+111 -123
	72"	-	+102 -112	+102 -107	-	-	+102 -112
198" to 216"	24" to 58 1/2"	-	+120 -132	+120 -126	-	+120 -132	+120 -132
	60"	-	+120 -132	+120 -126	-	+117 -128	+120 -132
	66"	-	+111 -123	+111 -117	-	-	+111 -123
222" to 233"	24" to 58 1/2"	-	+120 -132	+120 -126	-	+120 -132	+120 -132
	60"	-	+120 -132	+120 -126	-	-	+120 -132
240"	24" to 60"	-	+120 -132	+120 -126	-	-	+120 -132
246" to 252"	24" to 42"	-	+120 -132	+120 -126	-	-	+120 -132
	48" to 54"	-	+120 -132	-	-	-	+120 -132



NOTE:
GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300-09 (3 SEC. GUSTS).

NOTE:
ALL PRESSURES SHOWN ON THIS SHEET ARE ALLOWABLE PRESSURES (ASD).



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PROJECT :

PRO-TECH 14SG ALUMINUM
CURTAINWALL SYSTEM

CLIENT :

CRAWFORD TRACEY
CORPORATION

3301 S.W. 13TH DR.,
DEERFIELD BEACH, FL 33442
(954) 698-6888

REVISION

No.	DATE	BY	DESCRIPTION

Date: 06-15-2026

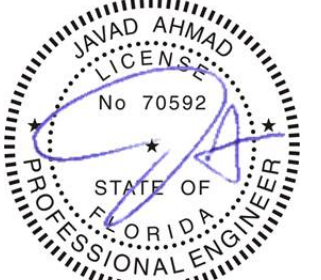
Scale: N/A

Drawn by: SA

Check by: PK

Drawing no. JA-1749-23

Eng: JAVAD AHMAD, PE
CIVIL FLA. PE # 70592 - C.A.N.34254

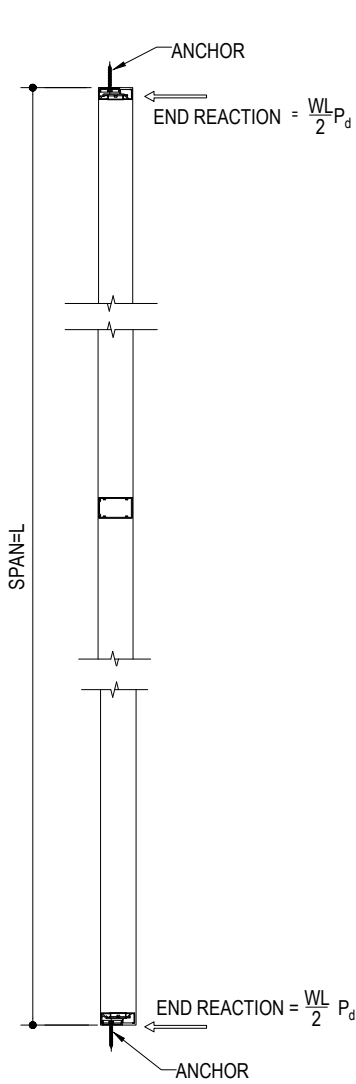


SEALED: 06-17-2026

SINGLE SPAN MULLION LOAD CAPACITY - PSF				
NOMINAL DIMS.		ALUM REINF.	STEEL REINF.	HEAVY STEEL REINF.
WIDTH (W)	SPAN (L)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
36"-360"	36"	+100 -100	+100 -100	+120 -120
36"-360"	48"	+100 -100	+100 -100	+120 -120
36"-360"	60"	+100 -100	+100 -100	+120 -120
36"-300"	72"	+100 -100	+100 -100	+120 -120
316"		-	+90 -90	-
36"-252"	84"	+100 -100	+100 -100	+120 -120
264"-316"		-	+90 -90	-
36"-216"	96"	+100 -100	+100 -100	+120 -120
228"-316"		-	+90 -90	-
36"-192"	108"	+100 -100	+100 -100	+120 -120
204"-300"		-	+90 -90	-
36"-180"	120"	+100 -100	+100 -100	+120 -120
192"-288"		-	+90 -90	-
36"-156"	132"	+100 -100	+100 -100	+120 -120
168"-252"		-	+90 -90	-
36"-144"	144"	+100 -100	+100 -100	+120 -120
156"-240"		+100 -100	+90 -90	-
36"-132"	156"	+100 -100	+100 -100	+120 -120
144"-216"		-	+90 -90	-
36"-120"	168"	+100 -100	+100 -100	+120 -120
132"-204"		-	+90 -90	-
36"-108"	180"	+100 -100	+100 -100	+120 -120
120"			+90 -90	+120 -120
132"-192"		-	+90 -90	-
36"-108"	192"	+100 -100	+100 -100	+120 -120
120"-180"		-	+90 -90	-
36"-96"	204"	+100 -100	+100 -100	+120 -120
108"-168"		-	+90 -90	-
36"-96"	216"	+100 -100	+100 -100	+120 -120
108"-156"		-	+90 -90	-
36"-84"	228"	+100 -100	+100 -100	+120 -120
96"-144"		-	+90 -90	-
36"-84"	240"	+100 -100	+100 -100	+120 -120
96"-132"		-	+90 -90	-
144"		-	+86 -90	-
36"-84"	252"	+100 -100	+100 -100	+120 -120
96"-120"		-	+90 -90	-
132"		-	+85 -90	-

SINGLE SPAN MULLION LOAD CAPACITY - PSF				
NOMINAL DIMS.		ALUM REINF.	STEEL REINF.	HEAVY STEEL REINF.
WIDTH (W)	SPAN (L)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
36"-72"	264"	+100 -100	+100 -100	+120 -120
84"-108"		-	+90 -90	-
120"		-	+85 -90	-
36"-72"	276"	+100 -100	+100 -100	+120 -120
84"-96"		-	+90 -90	-
108"		-	+87 -90	-
120"		-	+80 -90	-
36"-72"	288"	+100 -100	+100 -100	+120 -120
84"-96"		-	+90 -90	-
108"		-	+82 -90	-
120"		-	+76 -90	-
36"-72"	300"	+100 -100	+100 -100	+120 -120
84"		-	+90 -90	-
96"		-	+86 -90	-
108"		-	+78 -90	-
36"-60"	312"	+100 -100	+100 -100	+120 -120
72"-84"		-	+90 -90	-
96"		-	+82 -90	-
108"		-	+75 -90	-
36"-60"	324"	+100 -100	+100 -100	+120 -120
72"		-	+90 -90	-
84"		-	+88 -90	-
96"		-	+79 -90	-
36"-60"	336"	+100 -100	+100 -100	+120 -120
72"		-	+90 -90	-
84"		-	+84 -90	-
96"		-	+75 -90	-
36"-60"	348"	+100 -100	+100 -100	+120 -120
72"		-	+90 -90	-
84"		-	+81 -90	-
96"		-	+72 -90	-
36"-60"	348"	+100 -100	+100 -100	+120 -120
72"		-	+89 -90	-
84"		-	+78 -90	-
96"		-	+70 -90	-

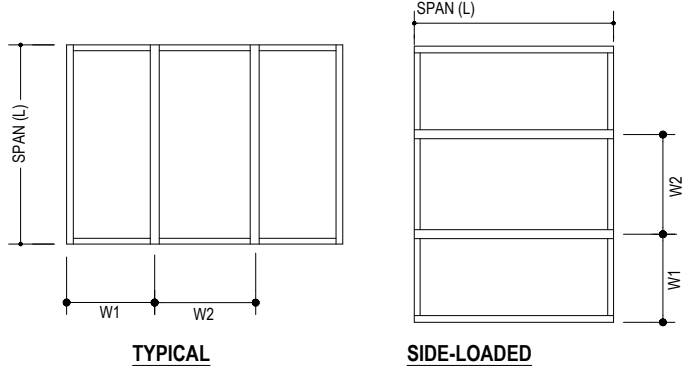
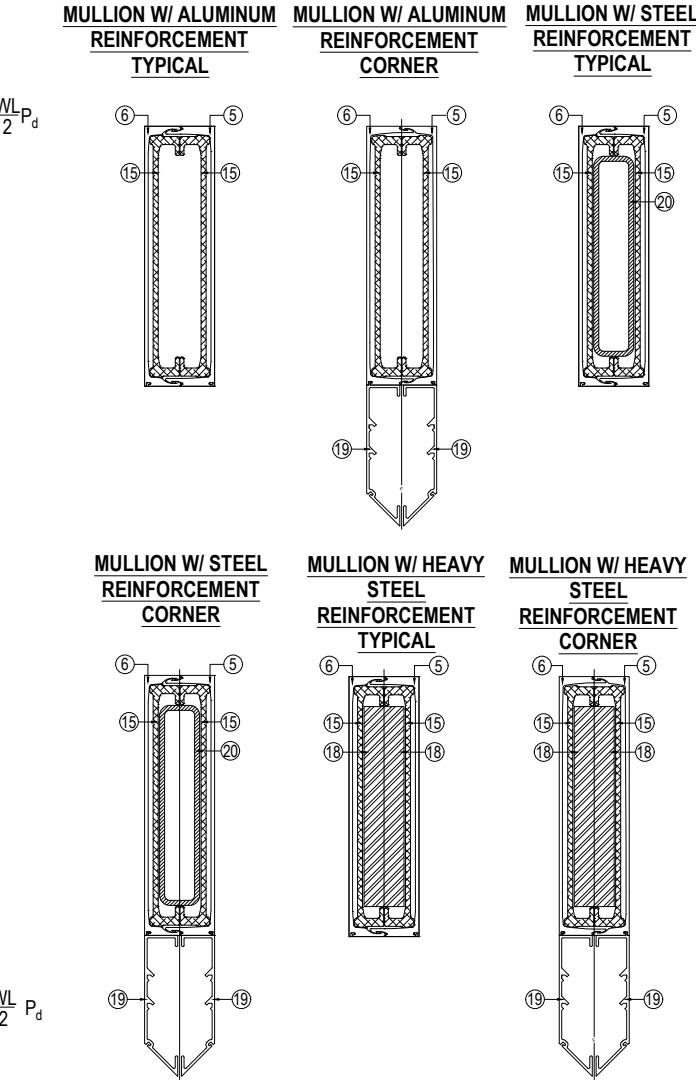
INTERPOLATION BETWEEN WIDTHS OR SPANS IS ALLOWED



IE LOADED SYSTEM

TYP. MULL W/ ALUM. REINF.	TYP. MULL W/ STEEL REINF.	TYP. MULL W/ HEAVY STEEL REINF.
I_x (IN. ⁴)	S_x (IN. ³)	I_x (IN. ⁴)
166.98	25.509	166.98
156.92	25.953	156.92
---	---	55.54
		11.108
		166.67
		33.333

MULLION
ALUM. REINF.
STEEL REINF.

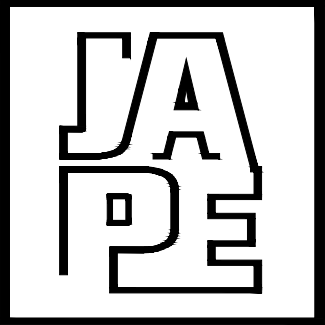


SIDE LOADED (ROTATED) SYSTEMS:

- SIDE LOADED SYSTEMS MAY BE USED GIVEN THE SYSTEM IS APPROVED BY A PROFESSIONAL ENGINEER BASED ON SITE SPECIFIC CONDITIONS

NOTE:

- MULLION CAPACITIES ARE EQUAL WITH OR WITHOUT HORIZONTALS.



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support@ja-pe.com

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ENVELOPE • SYSTEM DESIGN • PRODUCT APPROVALS

PROJECT :

PRO-TECH 14SG ALUMINUM
CURTAINWALL SYSTEM

CLIENT :

CRAWFORD TRACEY
CORPORATION

3301 S.W. 13TH DR.,
DEERFIELD BEACH, FL 33442
(954) 698-6888

REVISION

No.	DATE	BY	DESCRIPTION

Date: 06-15-2026

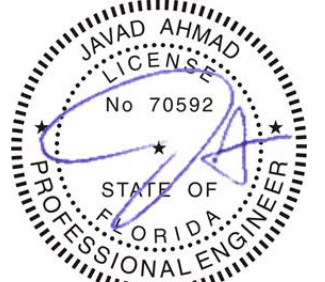
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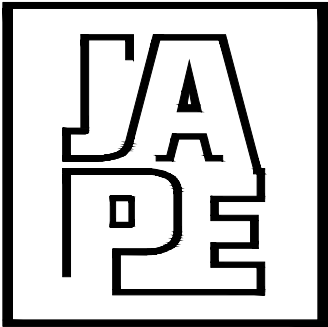
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Drawing no. JA-1749-23

Eng: JAVAD AHMAD, PE
CIVIL FLA. PE # 70592 - C.A.N.34254



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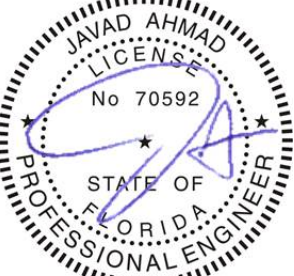
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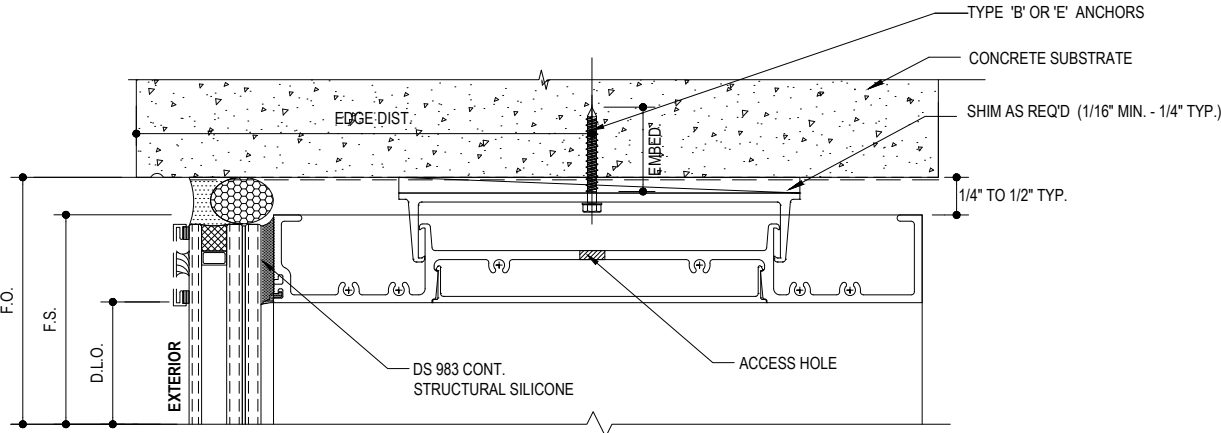
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SEALED: 06-17-2026



1 HEAD DETAIL INTO STRUCTURE

TYPICAL ANCHOR TYPES:

TYPE 'A' 5/16" DIA ULTRACON BY DEWALT (Fu=177 KSI, Fy=155 KSI)

- INTO 2BY WOOD BUCKS OR WOOD STRUCTURES (SG = 0.55 MIN.) WITH 1-7/8" MIN. PENETRATION INTO WOOD
- THRU 1BY OR 2BY WOOD BUCKS INTO CONCRETE (F'C = 3 KSI MIN.) OR CMU BLOCKS (F'M = 2 KSI MIN.) WITH 1-1/4" MIN. EMBED

ANCHOR EDGE DISTANCES

INTO CONCRETE = 3" MIN.
INTO BLOCKS = 3-1/8" MIN.
INTO WOOD STRUCTURES = 1-1/4" MIN.

TYPE 'B' 5/16" DIA ULTRACON BY DEWALT (Fu=177 KSI, Fy=155 KSI)

- DIRECTLY INTO CONCRETE WITH 1-3/4" MIN. EMBED
- DIRECTLY INTO CMU BLOCKS WITH 1-3/4" MIN. EMBED

ANCHOR EDGE DISTANCES

INTO CONCRETE AND BLOCKS = 3-1/8" MIN.

TYPE 'C' 1/4" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)

- INTO ALUMINUM (MIN. 1/8" THK.; 6063-T5 MIN.) WITH (3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
- INTO STEEL (MIN. 1/8" THK.; Fy=36 KSI MIN.) WITH (3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS

ANCHOR EDGE DISTANCES

INTO METAL STRUCTURE = 3/4" MIN.

TYPE 'D' 3/8" DIA. TEKS SELF DRILLING SCREWS

- INTO ALUMINUM (MIN. 1/8" THK.; 6063-T5 MIN.) WITH (3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
- INTO STEEL (MIN. 1/8" THK.; Fy=36 KSI MIN.) WITH (3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS

ANCHOR EDGE DISTANCES

INTO METAL STRUCTURE = 3/4" MIN.

TYPE 'E' 1/2"x5" HILTI KWIK HUS EZ OR EQUAL

- DIRECTLY INTO CONCRETE WITH 3-1/4" MIN. EFFECTIVE EMBED

ANCHOR EDGE DISTANCES

INTO CONCRETE = 4" MIN.

ANCHOR / SUBSTRATE ANCHOR / SUBSTRATE NOTES:

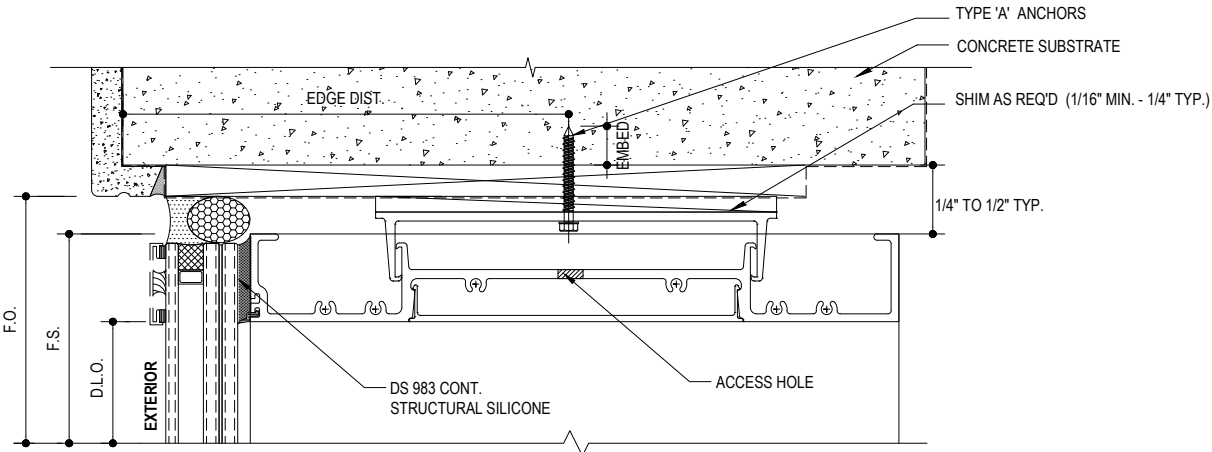
- WOOD MUST BE MIN. SOUTHERN YELLOW PINE #1 (SG=0.55 MIN.)
- CONCRETE MUST BE MIN. f'c= 3000 PSI
- C-90 HOLLOW/GROUT FILLED MASONRY UNITS MUST BE MIN. f'm= 2000 PSI
- STEEL MUST BE MIN. 1/8" THK., MIN. A36 GRADE
- ALUMINUM MUST BE MIN. 1/8" THK., MIN. 6063-T5 GRADE)
- CONTACT WITH DISSIMILAR METALS TO BE ISOLATED

SUBSTRATE NOTE:

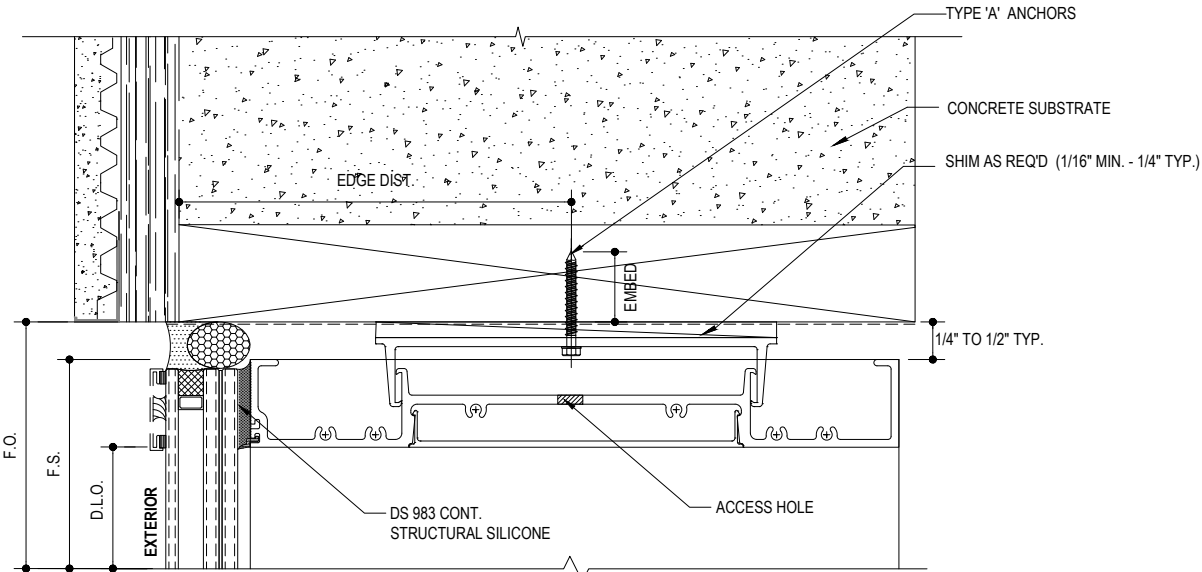
- THE WOOD BUCKS, CONCRETE, AND METAL STRUCTURE SHOWN ON THIS SHEET SHALL BE DESIGNED BY OTHERS AND ARE NOT PART OF THIS APPROVAL. THEY MUST BE CAPABLE OF WITHSTANDING THE LOADS IMPOSED BY THE GLAZING SYSTEM AND TRANSFERRING THEM TO THE BUILDING STRUCTURE.

GREATER SHIM SIZES:

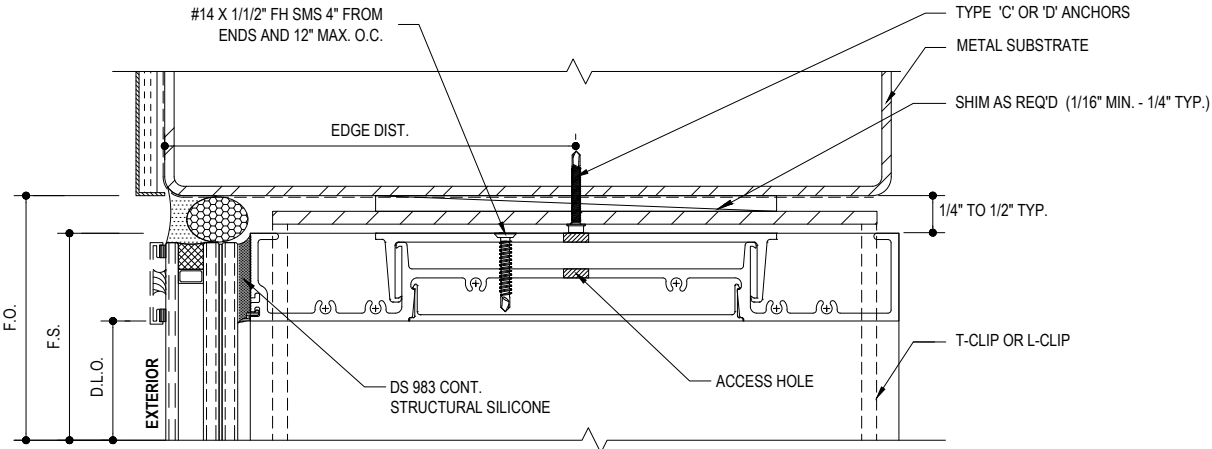
- SHIM SIZES GREATER THAN THE ONES SHOWN IN THE DETAILS ARE PERMITTED UNDER SITE SPECIFIC CONDITIONS WHEN APPROVED BY A LICENSED PROFESSIONAL ENGINEER.



2 HEAD DETAIL THROUGH 1BY WOOD BUCK



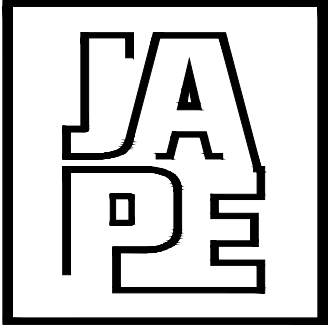
3 HEAD DETAIL INTO 2BY WOOD BUCK



4 HEAD DETAIL W/ T-CLIP OR L-CLIP

JAMB ANCHOR DETAILS AND ELEVATION

FL#29520.1



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No.	DATE	BY	DESCRIPTION

Date: 06-15-2026

Scale: N/A

Drawn by: SA

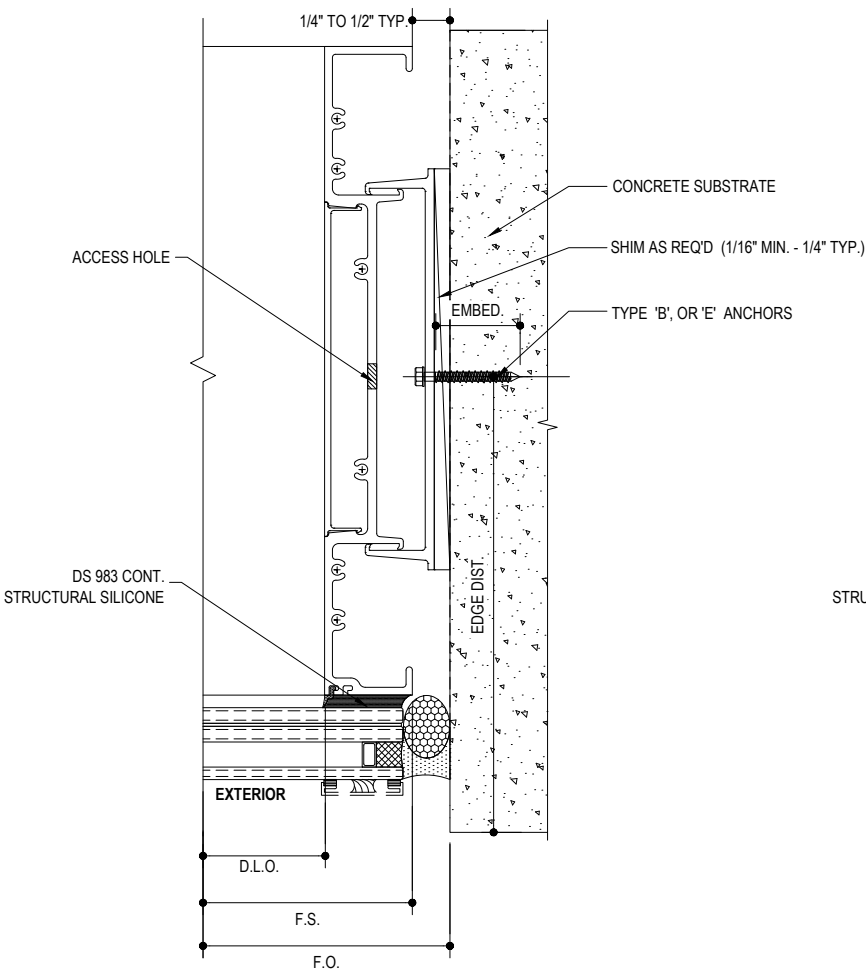
Check by: PK

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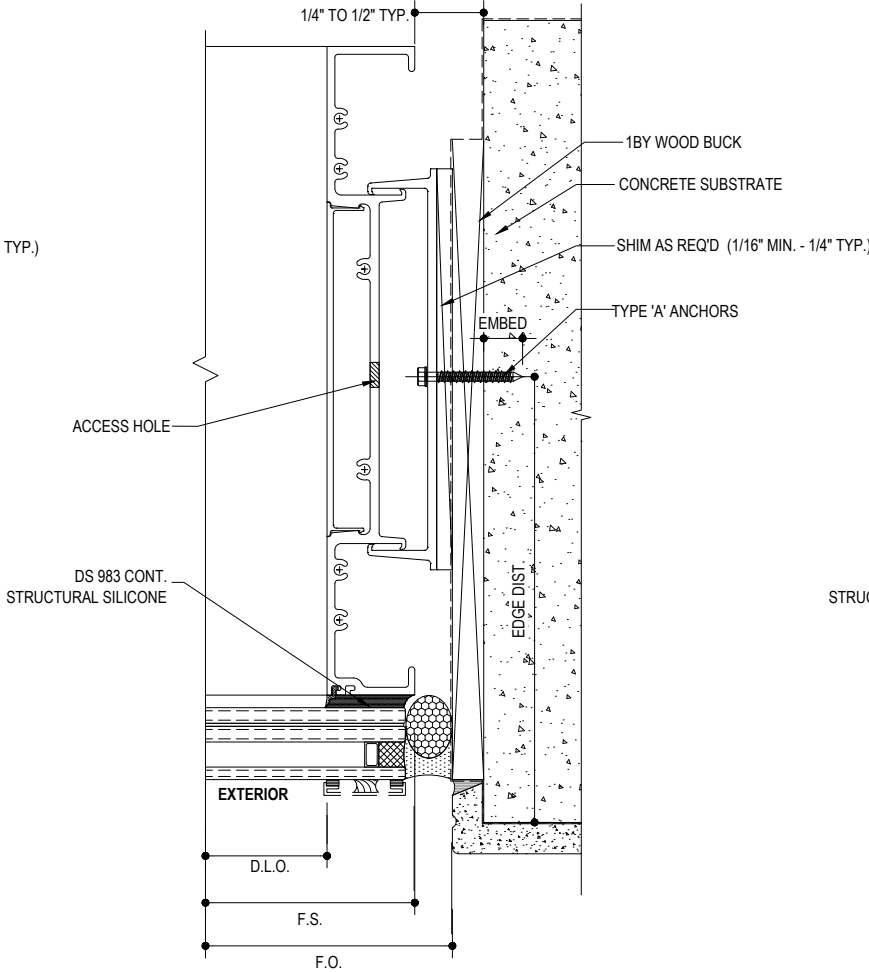
Eng: JAVAD AHMAD, PE
CIVIL FLA. PE # 70592 - C.A.N.34254



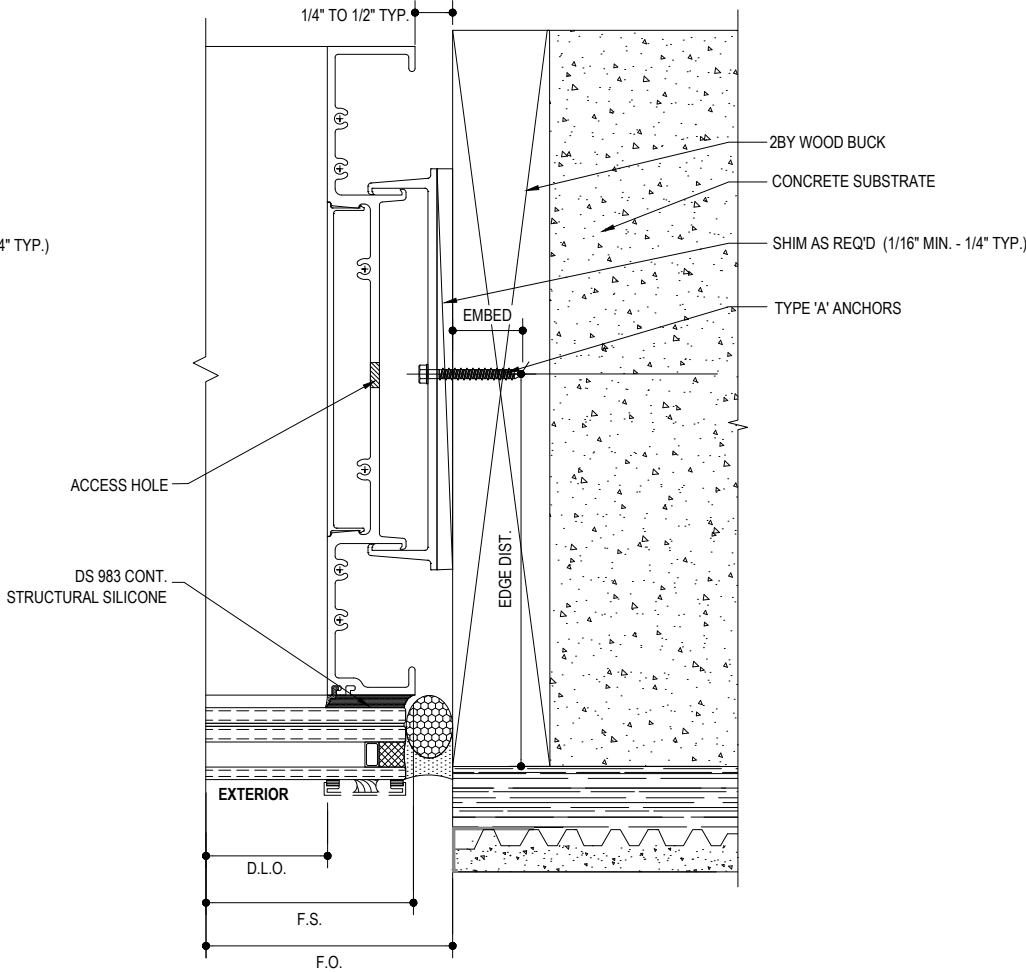
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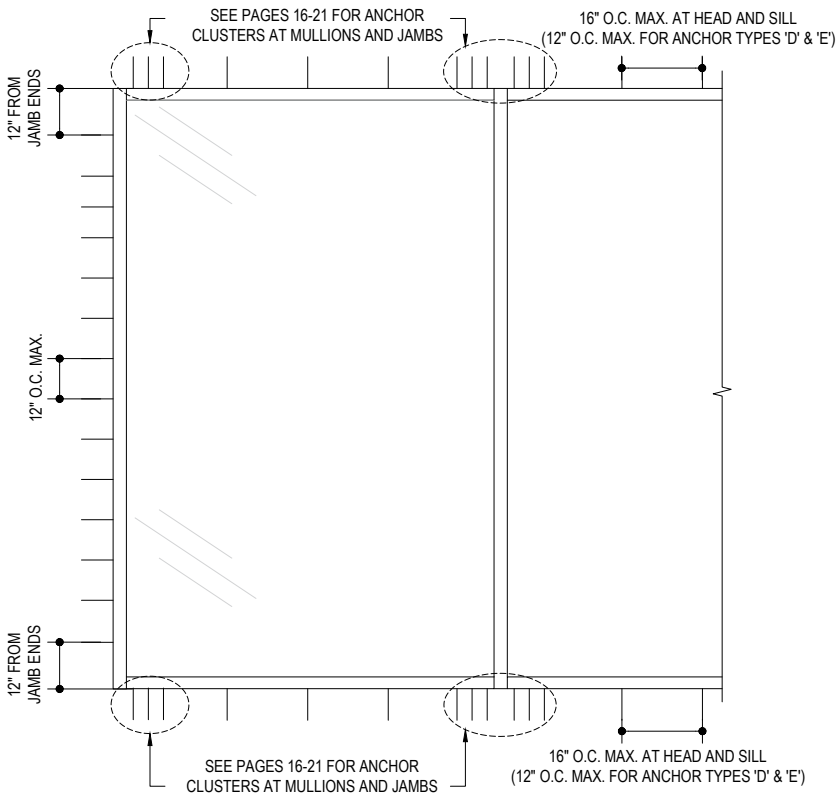
1 JAMB DETAIL INTO STRUCTURE



2 JAMB DETAIL THROUGH 1BY WOOD BUCK



3 JAMB DETAIL INTO 2BY WOOD BUCK

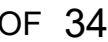


ANCHOR TYPE 'A' CAPACITY CHART		FL#29520.1
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PA

ANCHOR DESIGN LOAD CAPACITY -(PSF) EXT.(+) & INT. (-)					
NOMINAL DIMS.		ANCHORS TYPE 'A'			
WIDTH (W)	FRAME HEIGHT	A2	A3	A4	A5
36"	228"	33	50	50	50
47"		26	39	50	50
60"		21	32	42	50
73"		18	27	36	45
86"		16	24	31	39
99"		14	21	28	35
112"		13	19	26	32
125"		12	18	24	30
138"		11	17	23	28
38"		246"	29	43	50
49"	23		35	46	50
60"	19		29	39	48
71"	17		25	33	42
82"	15		22	30	37
93"	13		20	27	34
104"	12		19	25	31
115"	12		17	23	29
126"	11		16	22	27
40"	264"		26	38	50
50"		21	31	42	50
60"		18	27	36	45
70"		16	23	31	39
80"		14	21	28	35
90"		13	19	25	32
100"		12	18	23	29
110"		11	16	22	27
120"		10	15	20	26
36"		282"	26	39	50
45"	21		32	43	50
54"	18		27	36	45
63"	16		24	32	40
72"	14		21	28	35
81"	13		19	26	32
90"	12		18	23	29
99"	11		16	22	27
108"	10		15	20	25
36"	300"		25	37	49
45"		20	30	40	50
53"		17	26	34	43
61"		15	23	30	38
69"		14	20	27	34
77"		12	19	25	31
85"		11	17	23	29
93"		11	16	21	27
101"		10	15	20	25
36"		316"	23	35	47
45"	19		28	38	47
53"	16		24	33	41
61"	14		22	29	36
69"	13		19	26	32
77"	12		18	23	29
85"	11		16	22	27
93"	10		15	20	25
101"	9		14	19	23

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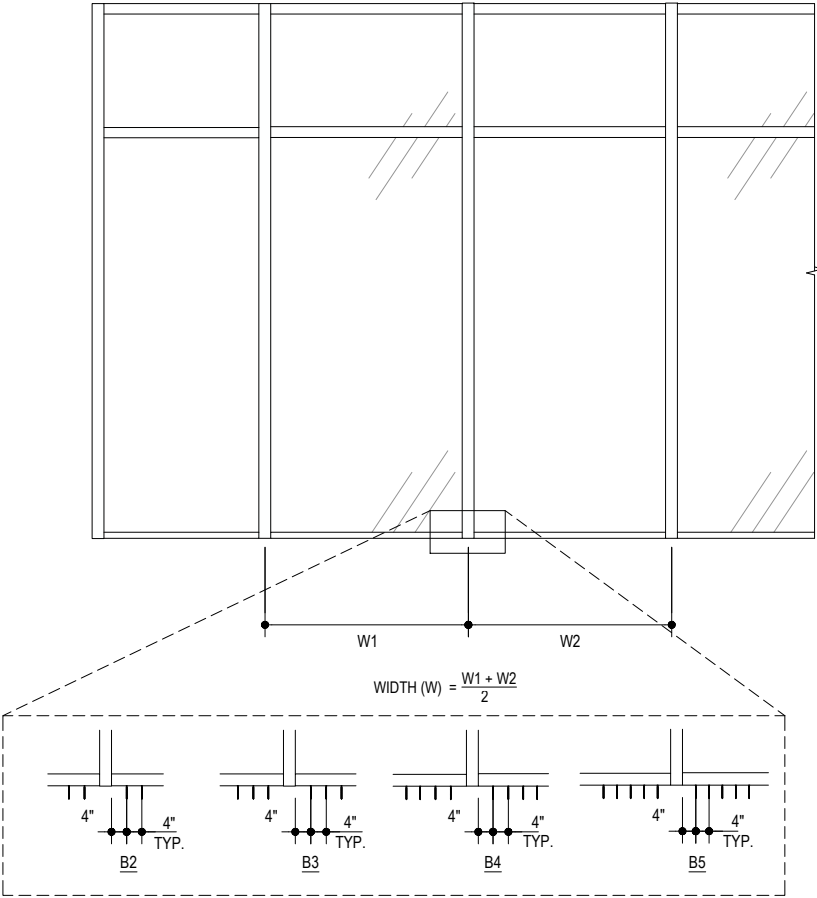
ANCHOR TYPE 'B' CAPACITY CHART

FL#29520.1

ANCHOR DESIGN LOAD CAPACITY -(PSF) EXT.(+) & INT. (-)					
NOMINAL DIMS.		ANCHORS TYPE 'B'			
WIDTH (W)	FRAME HEIGHT	B2	B3	B4	B5
40"	120"	50	50	50	50
68"		50	50	50	50
96"		50	50	50	50
124"		50	50	50	50
152"		50	50	50	50
180"		50	50	50	50
208"		50	50	50	50
236"		50	50	50	50
264"	138"	50	50	50	50
36"		50	50	50	50
60"		50	50	50	50
84"		50	50	50	50
108"		50	50	50	50
132"		50	50	50	50
156"		50	50	50	50
180"		50	50	50	50
204"	156"	50	50	50	50
228"		50	50	50	50
36"		50	50	50	50
57"		50	50	50	50
78"		50	50	50	50
99"		50	50	50	50
120"		48	50	50	50
141"		46	50	50	50
162"	174"	45	50	50	50
183"		45	50	50	50
204"		45	50	50	50
36"		50	50	50	50
54"		50	50	50	50
72"		50	50	50	50
90"		48	50	50	50
108"		43	50	50	50
126"	192"	40	50	50	50
144"		38	50	50	50
162"		37	50	50	50
180"		37	50	50	50
36"		50	50	50	50
50"		50	50	50	50
66"		50	50	50	50
82"		45	50	50	50
98"	210"	39	50	50	50
114"		36	50	50	50
130"		33	50	50	50
146"		32	48	50	50
162"		31	46	50	50
38"		50	50	50	50
52"		50	50	50	50
66"		47	50	50	50
80"		41	50	50	50
94"		36	50	50	50
108"		33	49	50	50
122"		30	46	50	50
136"		29	43	50	50
150"		27	41	50	50

ANCHOR DESIGN LOAD CAPACITY -(PSF) EXT.(+) & INT. (-)					
NOMINAL DIMS.		ANCHORS TYPE 'B'			
WIDTH (W)	FRAME HEIGHT	B2	B3	B4	B5
36"	228"	50	50	50	50
47"		50	50	50	50
60"		47	50	50	50
73"		40	50	50	50
86"		35	50	50	50
99"		31	47	50	50
112"		29	43	50	50
125"		27	40	50	50
138"	246"	25	38	50	50
38"		50	50	50	50
49"		50	50	50	50
60"		43	50	50	50
71"		37	50	50	50
82"		33	49	50	50
93"		30	45	50	50
104"		27	41	50	50
115"	264"	26	38	50	50
126"		24	36	48	50
40"		50	50	50	50
50"		46	50	50	50
60"		39	50	50	50
70"		34	50	50	50
80"		31	46	50	50
90"		28	42	50	50
100"	282"	26	39	50	50
110"		24	36	48	50
120"		23	34	45	50
36"		50	50	50	50
45"		47	50	50	50
54"		40	50	50	50
63"		35	50	50	50
72"		31	47	50	50
81"	300"	28	42	50	50
90"		26	39	50	50
99"		24	36	48	50
108"		22	34	45	50
36"		50	50	50	50
45"		44	50	50	50
53"		38	50	50	50
61"		34	50	50	50
69"	316"	30	45	50	50
77"		27	41	50	50
85"		25	38	50	50
93"		23	35	47	50
101"		22	33	44	50
36"		50	50	50	50
45"		42	50	50	50
53"		36	50	50	50
61"		32	48	50	50
69"		28	43	50	50
77"		26	39	50	50
85"		24	36	48	50
93"		22	33	44	50
101"		21	31	41	50

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS IS ALLOWED



ANCHORS TYPES: SEE SHEET 14 FOR DESCRIPTION

- B2 = (2) ANCHORS TYPE 'B' AT EACH SIDE OF JAMB AND MULLION
B3 = (3) ANCHORS TYPE 'B' AT EACH SIDE OF JAMB AND MULLION
B4 = (4) ANCHORS TYPE 'B' AT EACH SIDE OF JAMB AND MULLION
B5 = (5) ANCHORS TYPE 'B' AT EACH SIDE OF JAMB AND MULLION

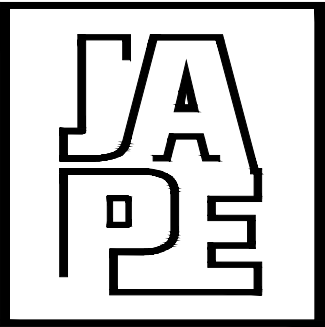
ALL OTHER ANCHORS TO BE SPACED AT 12" O.C. MAX. AT HEAD AND SILL

NOTE: ANCHORING FOR SLOPED GLAZING:

- ANCHORING FOR SLOPED SYSTEMS SHALL BE DESIGNED ON A SITE SPECIFIC BASIS WITH APPROVAL FROM A LICENSED PROFESSIONAL ENGINEER, AND THE PRODUCT MANUFACTURER.

NOTE: ANCHOR SPECIFICATIONS

- IF A LESSER EDGE DISTANCE, EMBEDMENT AND/OR SPACING IS DESIRED TO ACHIEVE THE DESIGN INTENT THEN THE PRODUCT ANCHORING SHALL BE DESIGNED ON A SITE SPECIFIC BASIS AND APPROVED BY A LICENSED PROFESSIONAL ENGINEER.



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DEERFIELD BEACH, FL 33442
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REVISION

No.	DATE	BY	DESCRIPTION

Date: 06-15-2026

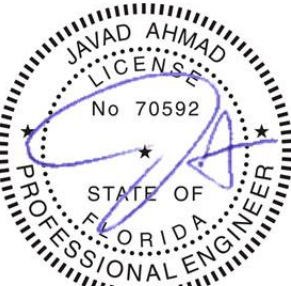
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Drawn by: SA

Check by: PK

Drawing no. JA-1749-23

Eng: JAVAD AHMAD, PE
CIVIL FLA. PE # 70592 - C.A.N.34254



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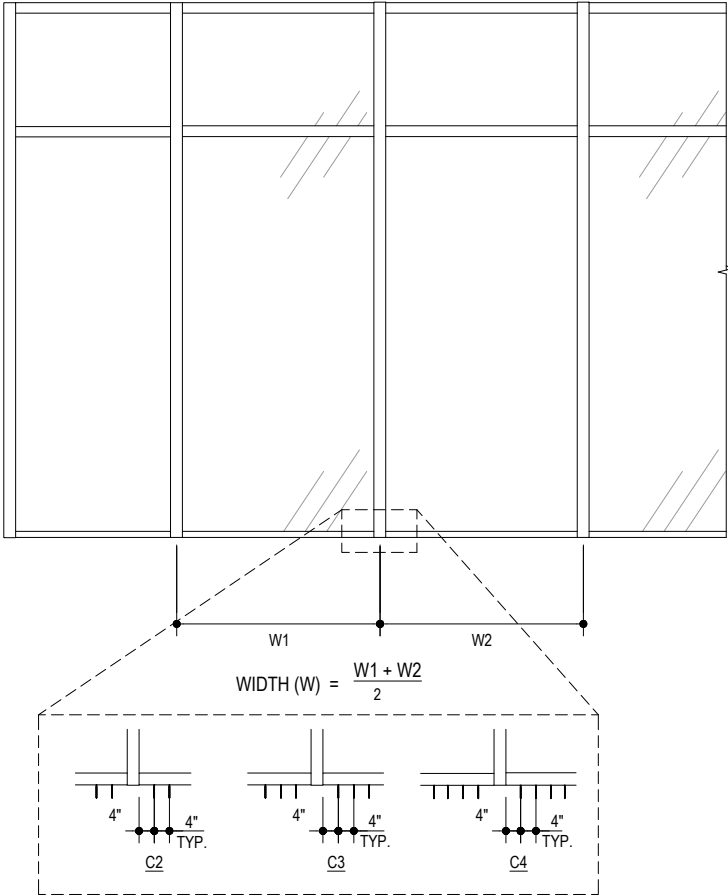
ANCHOR TYPE 'C' CAPACITY CHART

FL#29520.1

ANCHOR DESIGN LOAD CAPACITY -(PSF) EXT.(+) & INT. (-)				
NOMINAL DIMS.		ANCHORS TYPE 'C'		
WIDTH (W)	FRAME HEIGHT	C2	C3	C4
40"	120"	50	50	50
68"		50	50	50
96"		50	50	50
124"		50	50	50
152"		50	50	50
180"		50	50	50
208"		50	50	50
236"		50	50	50
264"	138"	50	50	50
36"		50	50	50
60"		50	50	50
84"		50	50	50
108"		50	50	50
132"		50	50	50
156"		50	50	50
180"		50	50	50
204"	156"	50	50	50
228"		50	50	50
36"		50	50	50
57"		50	50	50
78"		50	50	50
99"		50	50	50
120"		50	50	50
141"		50	50	50
162"	174"	50	50	50
183"		50	50	50
204"		50	50	50
36"		50	50	50
54"		50	50	50
72"		50	50	50
90"		50	50	50
108"		50	50	50
126"	192"	47	50	50
144"		45	50	50
162"		44	50	50
180"		44	50	50
36"		50	50	50
50"		50	50	50
66"		50	50	50
82"		50	50	50
98"	210"	47	50	50
114"		43	50	50
130"		40	50	50
146"		38	50	50
162"		37	50	50
38"		50	50	50
52"		50	50	50
66"		50	50	50
80"		49	50	50
94"		43	50	50
108"		39	50	50
122"		36	50	50
136"		34	50	50
150"		33	49	50

ANCHOR DESIGN LOAD CAPACITY -(PSF) EXT.(+) & INT. (-)				
NOMINAL DIMS.		ANCHORS TYPE 'C'		
WIDTH (W)	FRAME HEIGHT	C2	C3	C4
36"	228"	50	50	50
47"		50	50	50
60"		50	50	50
73"		47	50	50
86"		41	50	50
99"		37	50	50
112"		34	50	50
125"		32	48	50
138"	246"	30	45	50
38"		50	50	50
49"		50	50	50
60"		50	50	50
71"		44	50	50
82"		39	50	50
93"		36	50	50
104"		33	49	50
115"	264"	30	46	50
126"		29	43	50
40"		50	50	50
50"		50	50	50
60"		47	50	50
70"		41	50	50
80"		37	50	50
90"		33	50	50
100"	282"	31	46	50
110"		29	43	50
120"		27	40	50
36"		50	50	50
45"		50	50	50
54"		48	50	50
63"		42	50	50
72"		37	50	50
81"	300"	34	50	50
90"		31	46	50
99"		29	43	50
108"		27	40	50
36"		50	50	50
45"		50	50	50
53"		46	50	50
61"		40	50	50
69"	316"	36	50	50
77"		33	49	50
85"		30	45	50
93"		28	42	50
101"		26	39	50
36"		50	50	50
45"		50	50	50
53"		43	50	50
61"		38	50	50
69"		34	50	50
77"		31	46	50
85"		28	43	50
93"		26	40	50
101"		25	37	49

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS IS ALLOWED



ANCHORS TYPES: SEE SHEET 14 FOR DESCRIPTION

- C2 = (2) ANCHORS TYPE 'C' AT EACH SIDE OF JAMB AND MULLION
- C3 = (3) ANCHORS TYPE 'C' AT EACH SIDE OF JAMB AND MULLION
- C4 = (4) ANCHORS TYPE 'C' AT EACH SIDE OF JAMB AND MULLION

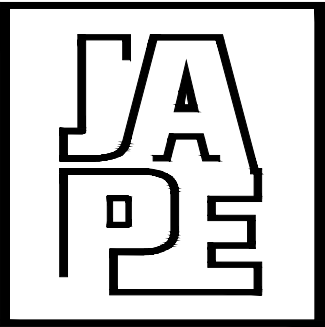
ALL OTHER ANCHORS TO BE SPACED AT 12" O.C. MAX. AT HEAD AND SILL

NOTE: ANCHORING FOR SLOPED GLAZING:

- ANCHORING FOR SLOPED SYSTEMS SHALL BE DESIGNED ON A SITE SPECIFIC BASIS WITH APPROVAL FROM A LICENSED PROFESSIONAL ENGINEER, AND THE PRODUCT MANUFACTURER.

NOTE: ANCHOR SPECIFICATIONS

- IF A LESSER EDGE DISTANCE, EMBEDMENT AND/OR SPACING IS DESIRED TO ACHIEVE THE DESIGN INTENT THEN THE PRODUCT ANCHORING SHALL BE DESIGNED ON A SITE SPECIFIC BASIS AND APPROVED BY A LICENSED PROFESSIONAL ENGINEER.



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CIVIL FLA. PE # 70592 - C.A.N.34254



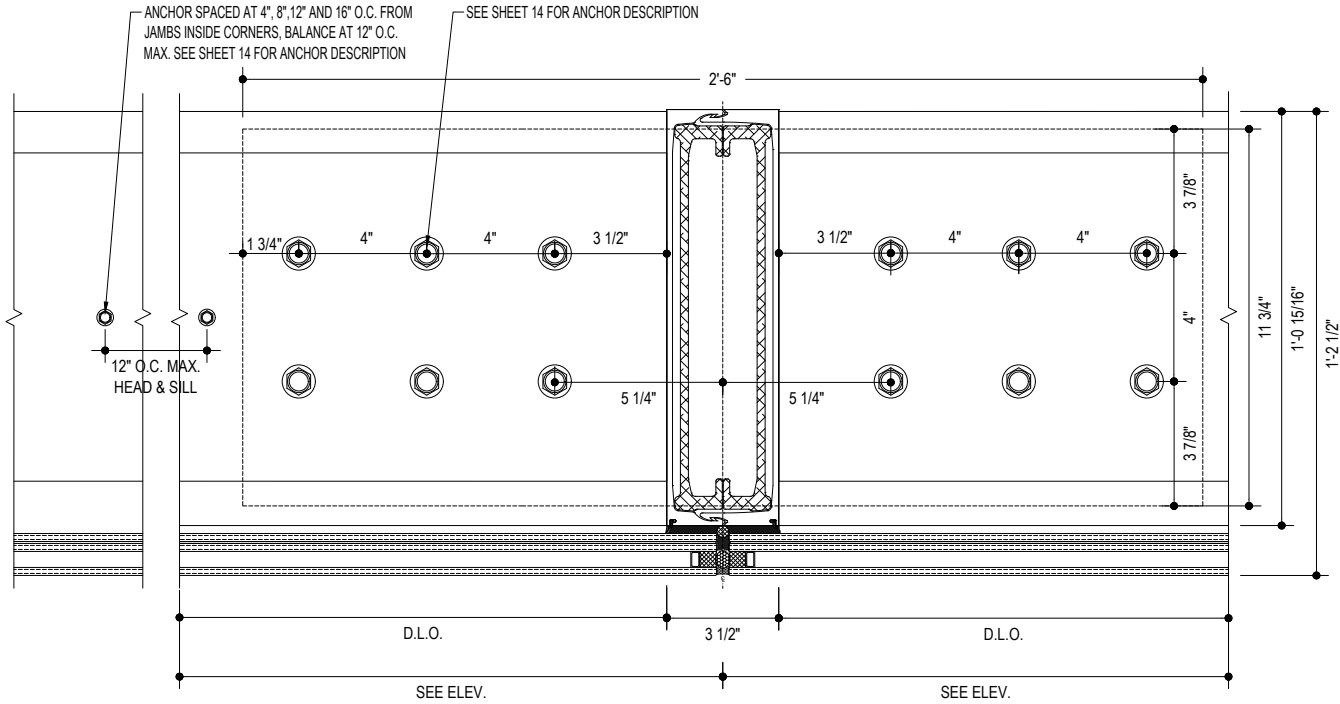
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ANCHOR TYPES 'D' & 'E' CAPACITY CHARTS

FL#29520.1

ANCHOR DESIGN LOAD CAPACITY -(PSF) EXT.(+) & INT. (-)							
NOMINAL DIMS.		ANCHORS TYPE 'D'			ANCHORS TYPE 'E'		
WIDTH (W)	FRAME HEIGHT	D2	D4	D6	E2	E4	E6
60"	120"	120	120	120	96	120	120
72"		100	120	120	80	120	120
84"		85	120	120	68	120	120
96"		75	120	120	60	120	120
108"		66	120	120	53	106	120
120"		60	120	120	48	96	120
132"		54	109	120	43	87	120
144"		50	100	120	40	80	120
156"		46	92	120	36	73	110
168"		42	85	120	34	68	102
180"		40	80	120	32	64	96
48"	132"	120	120	120	109	120	120
60"		109	120	120	87	120	120
72"		90	120	120	72	120	120
84"		77	120	120	62	120	120
96"		68	120	120	54	109	120
108"		60	120	120	48	96	120
120"		54	109	120	43	87	120
132"		49	99	120	39	79	119
144"		45	90	120	36	72	109
156"		41	83	120	33	67	100
48"	144"	120	120	120	100	120	120
60"		100	120	120	80	120	120
72"		83	120	120	66	120	120
84"		71	120	120	57	114	120
96"		62	120	120	50	100	120
108"		55	111	120	44	88	120
120"		50	100	120	40	80	120
132"		45	90	120	36	72	109
144"		41	83	120	33	66	100
48"	156"	115	120	120	92	120	120
60"		92	120	120	73	120	120
72"		76	120	120	61	120	120
84"		65	120	120	52	105	120
96"		57	115	120	46	92	120
108"		51	102	120	41	82	120
120"		46	92	120	36	73	110
132"		41	83	120	33	67	100
48"	168"	107	120	120	85	120	120
60"		85	120	120	68	120	120
72"		71	120	120	57	114	120
84"		61	120	120	48	97	120
96"		53	107	120	42	85	120
108"		47	95	120	38	76	114
120"		42	85	120	34	68	102
48"	180"	100	120	120	80	120	120
60"		80	120	120	64	120	120
72"		66	120	120	53	106	120
84"		57	114	120	45	91	120
96"		50	100	120	40	80	120
108"		44	88	120	35	71	106
120"		40	80	120	32	64	96

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS IS ALLOWED



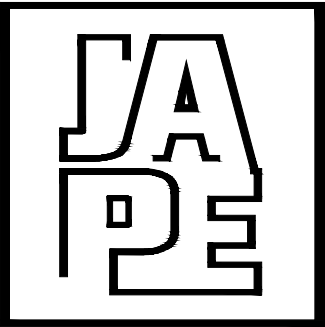
1 ANCHOR TYPE D & E

NOTE: ANCHORING FOR SLOPED GLAZING:

- ANCHORING FOR SLOPED SYSTEMS SHALL BE DESIGNED ON A SITE SPECIFIC BASIS WITH APPROVAL FROM A LICENSED PROFESSIONAL ENGINEER, AND THE PRODUCT MANUFACTURER.

NOTE: ANCHOR SPECIFICATIONS

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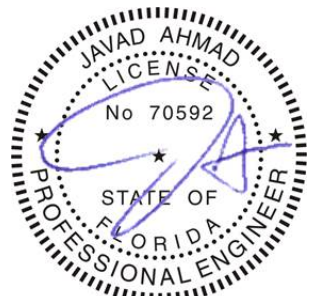
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ANCHOR TYPES 'D' & 'E' CAPACITY CHARTS (CONT.)	FL#29520.1
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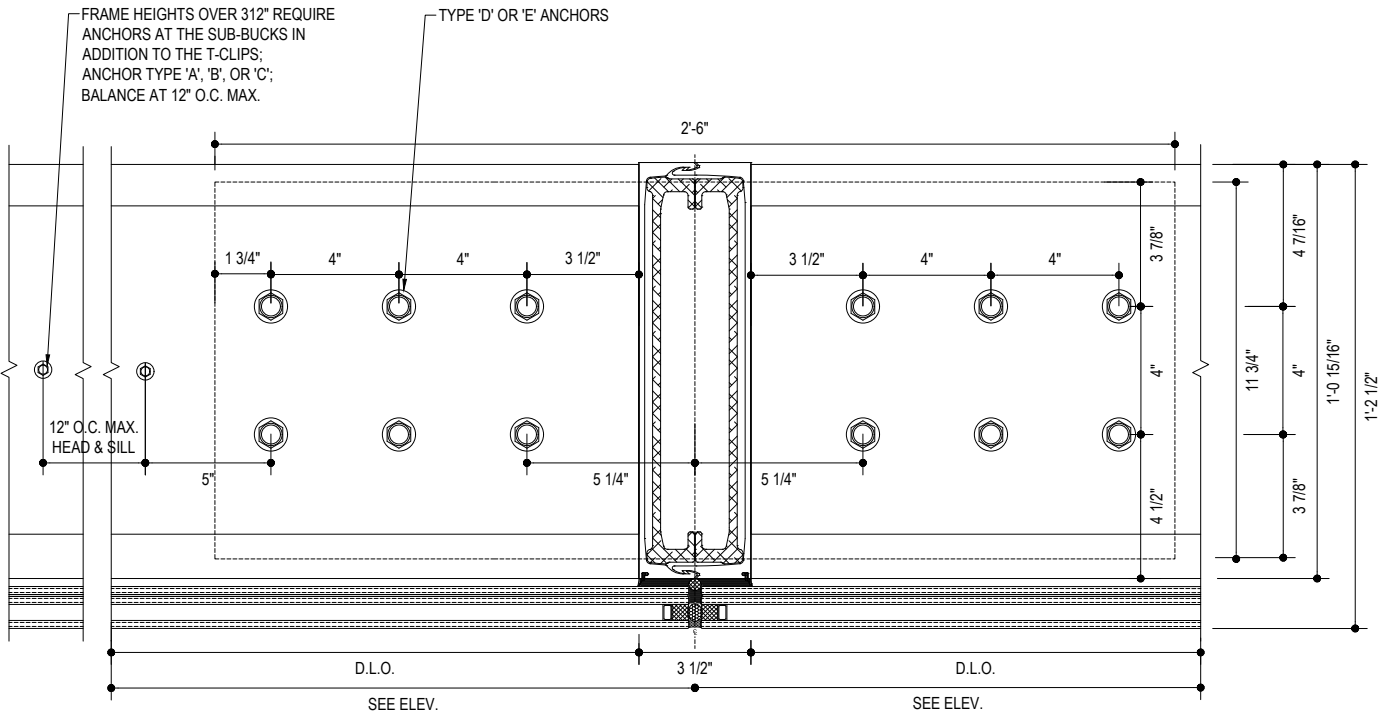
			
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20		OF 34	

ANCHOR TYPES 'D' & 'E' CAPACITY CHARTS (CONT.)

FL#29520.1

ANCHOR DESIGN LOAD CAPACITY -(PSF) EXT.(+) & INT. (-)								
NOMINAL DIMS.		ANCHORS TYPE 'D'			ANCHORS TYPE 'E'			
WIDTH (W)	FRAME HEIGHT	D2	D4	D6	E2	E4	E6	E8
48"	312"	92	114	120	46	92	120	120
60"		73	93	120	36	73	110	120
72"		61	72	117	30	61	92	120
84"		52	51	109	26	52	79	105
96"	324"	46	30	100	23	46	69	92
48"		88	110	120	44	88	120	120
60"		71	89	120	35	71	106	120
72"		59	67	115	29	59	88	118
84"	336"	50	45	106	25	50	76	101
96"		44	23	97	22	44	66	88
48"		85	107	120	42	85	120	120
60"		68	85	120	34	68	102	120
72"	348"	57	62	113	28	57	85	114
84"		48	40	104	24	48	73	97
96"		42	17	95	21	42	64	85
48"		82	104	120	41	82	120	120
60"	360"	66	81	120	33	66	99	120
72"		55	57	111	27	55	82	110
84"		47	34	102	23	47	70	94
96"		41	11	92	20	41	62	82
48"		80	101	120	40	80	120	120
60"		64	77	120	32	64	96	120
72"		53	52	109	26	53	80	106
84"		45	28	99	22	45	68	91
96"		10	4	90	20	40	60	80

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS IS ALLOWED



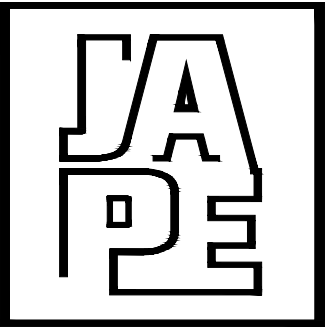
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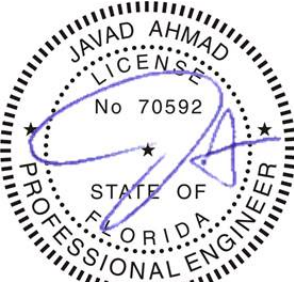
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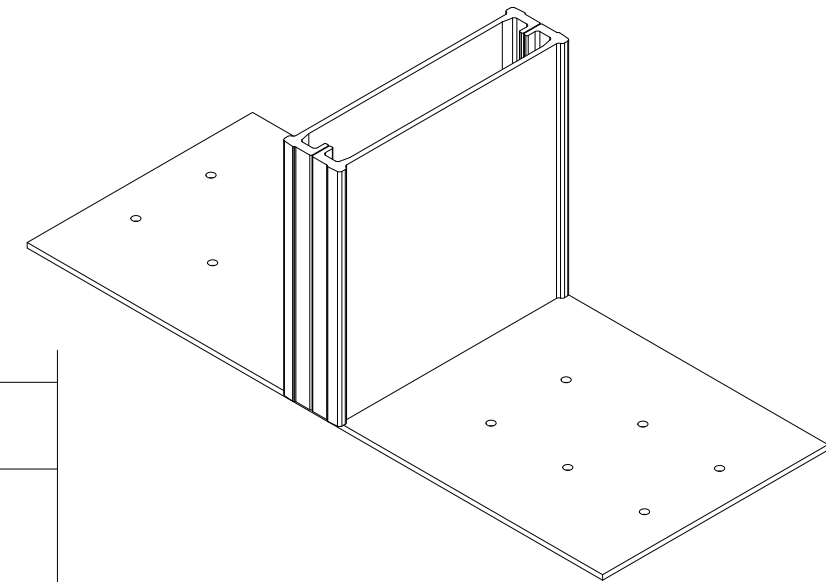
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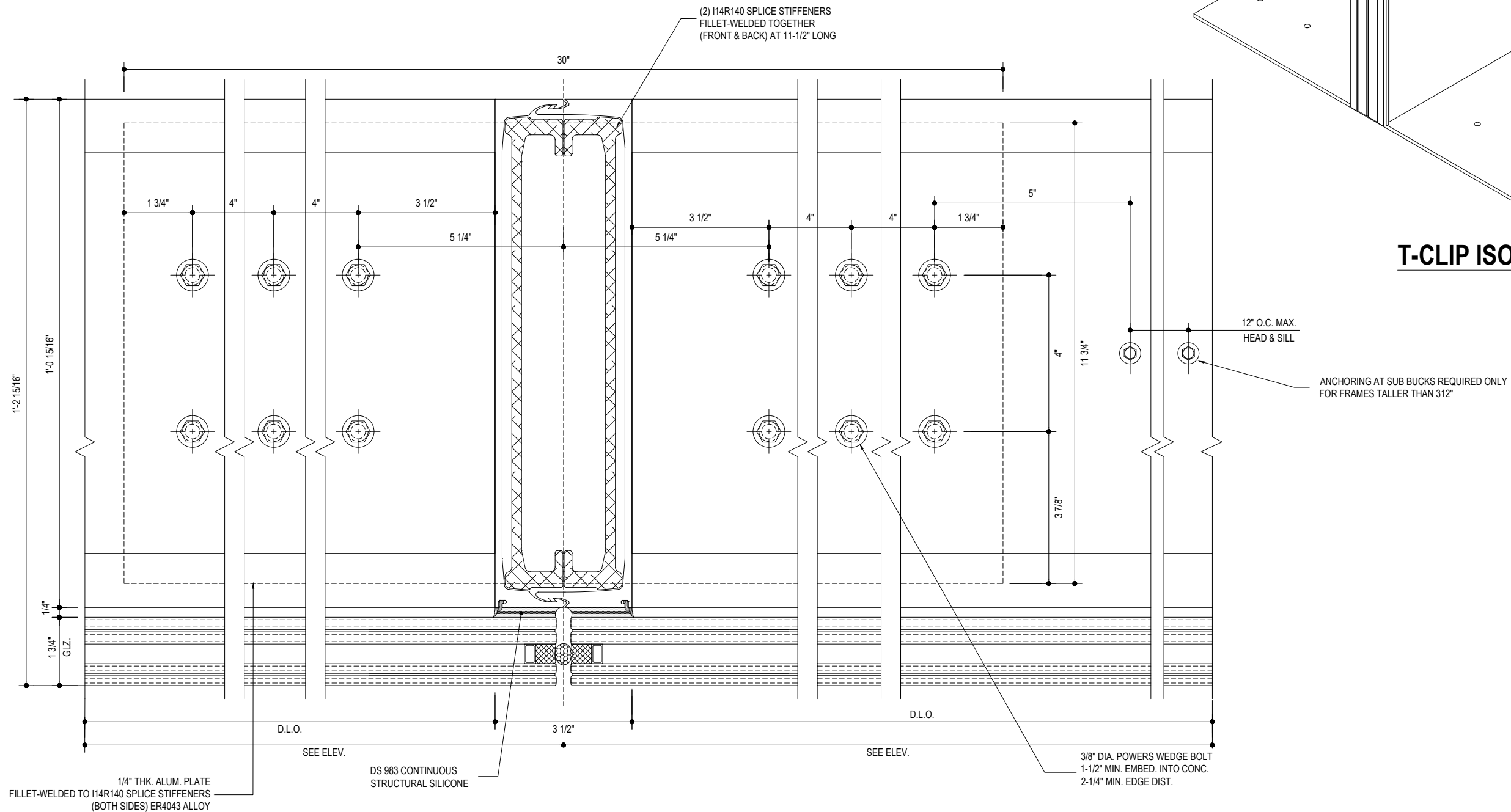
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22

OF 34



T-CLIP ISOMETRIC VIEW

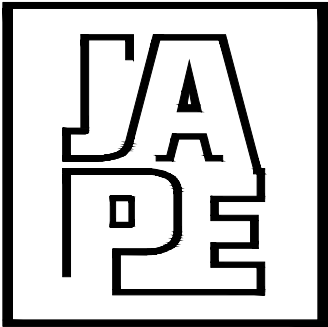


1

T-CLIP DETAIL

L-CLIP DETAIL AT HEAD/SILL (OPTIONAL ALTERNATIVE TO SUB-BUCK)

FL#29520.1



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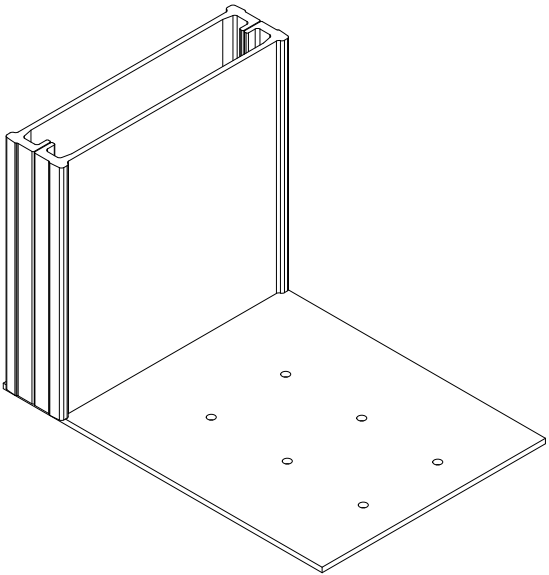
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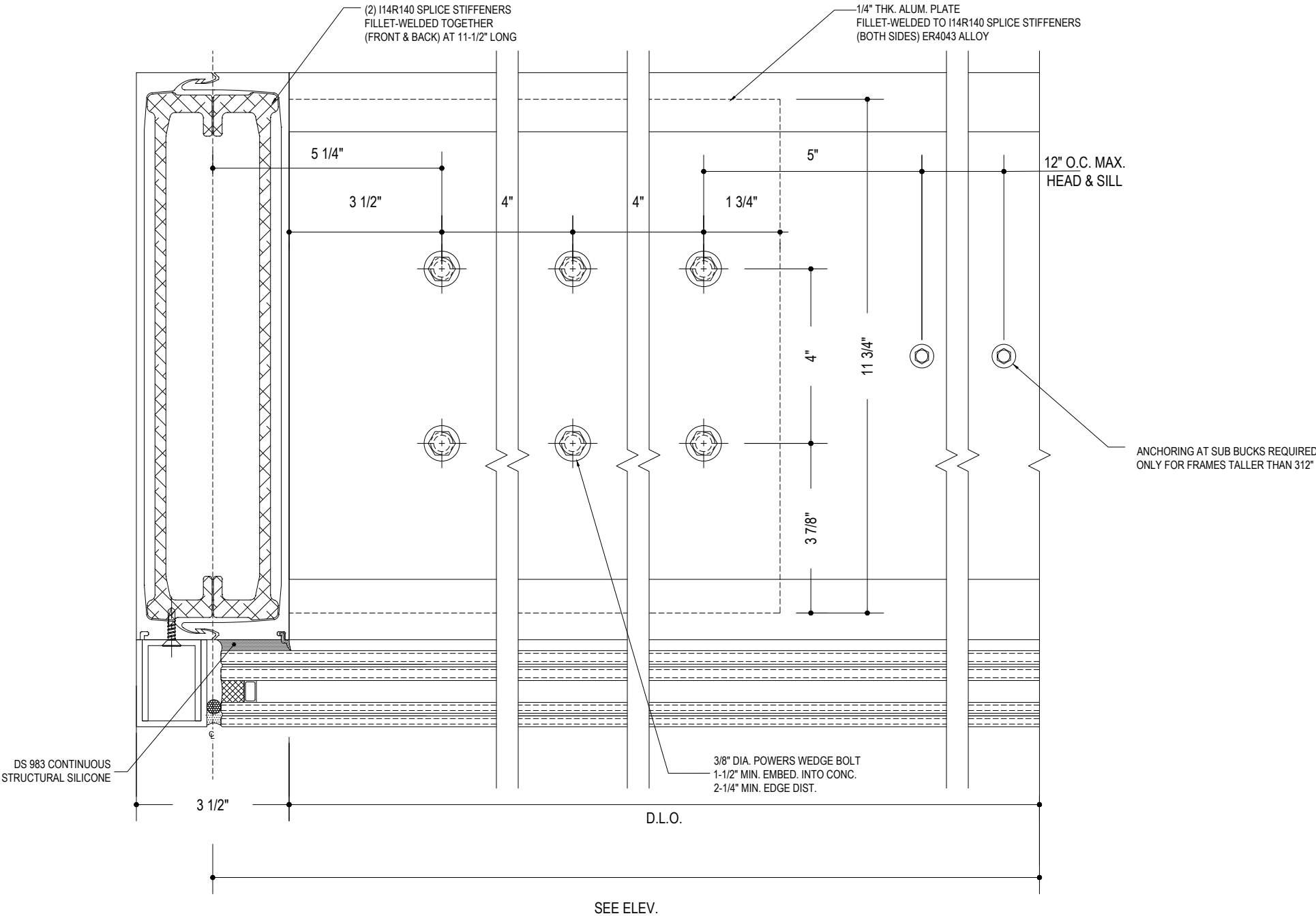
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L-CLIP ISOMETRIC VIEW

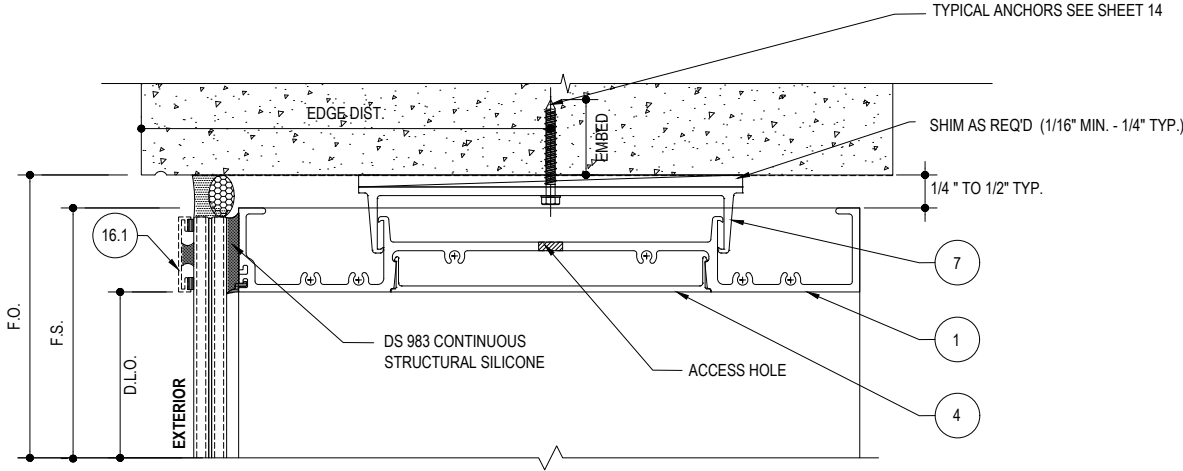


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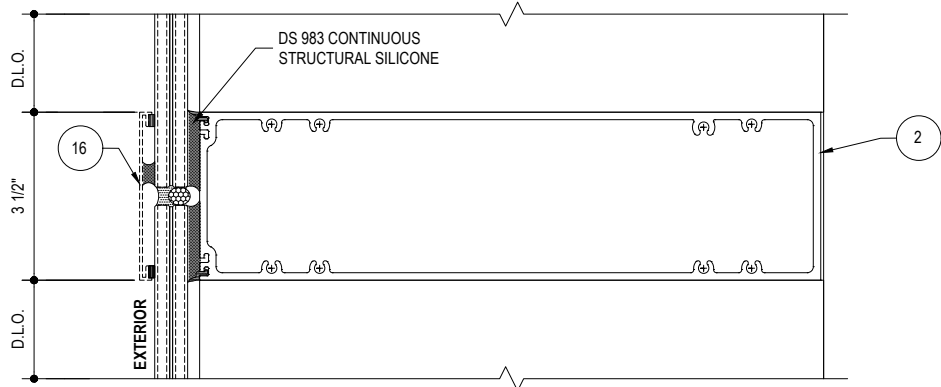
L-CLIP DETAIL

VERTICAL SECTION DETAILS

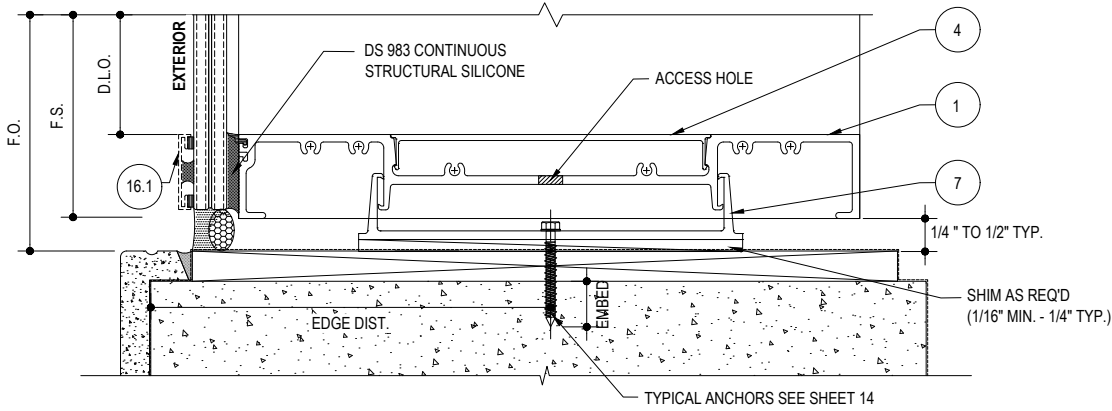
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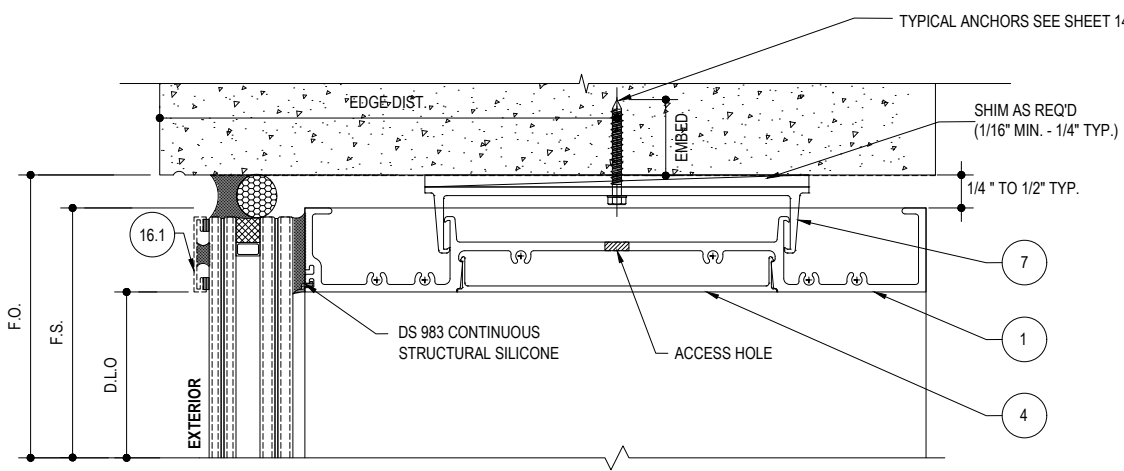
1 LAMINATED GLASS HEAD DETAIL



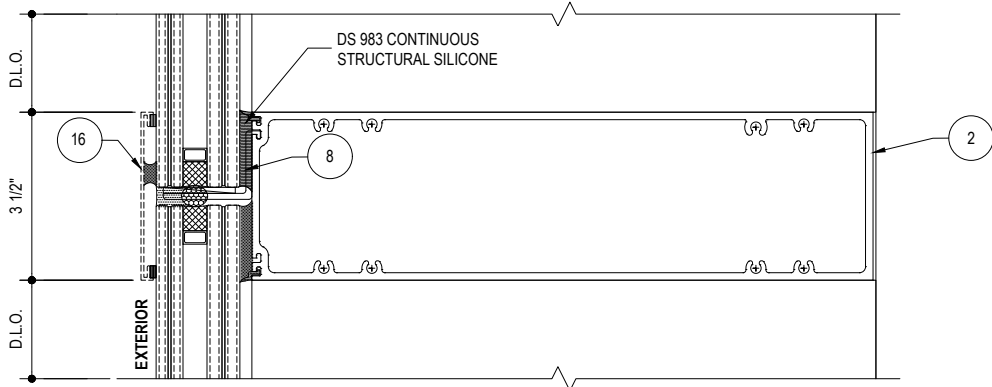
2 LAMINATED GLASS INTERMEDIATE DETAIL



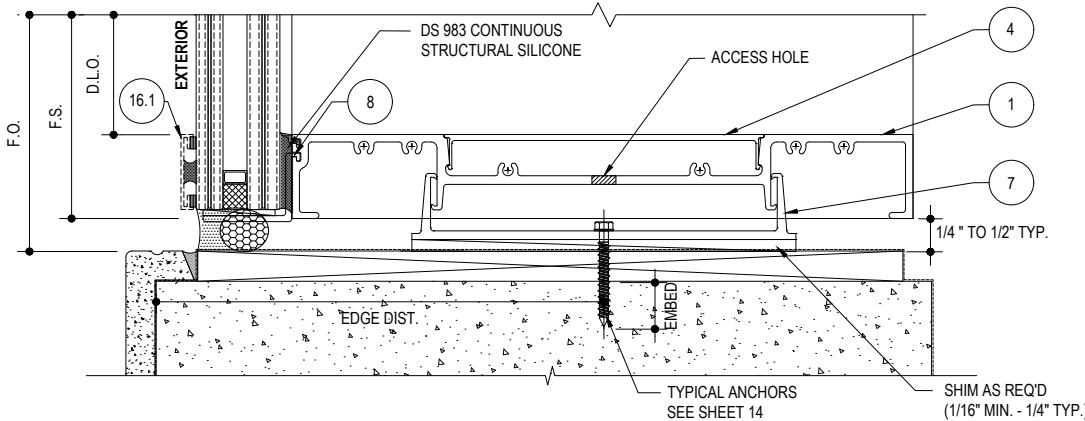
3 LAMINATED GLASS SILL DETAIL



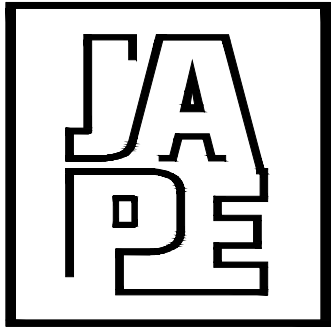
4 INSUL. LAMI. GLASS HEAD DETAIL



5 INSUL. LAMI. GLASS INTERMEDIATE DETAIL



6 INSUL. LAMI. GLASS SILL DETAIL



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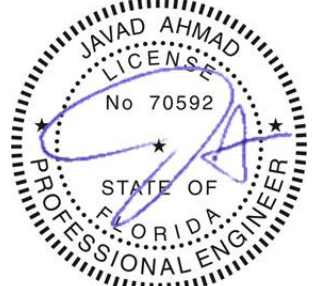
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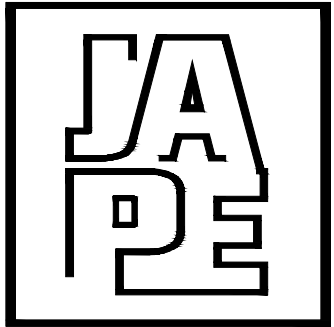
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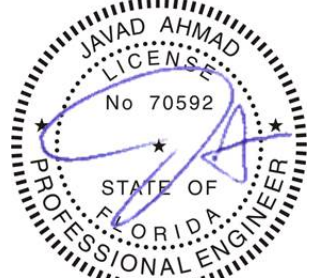
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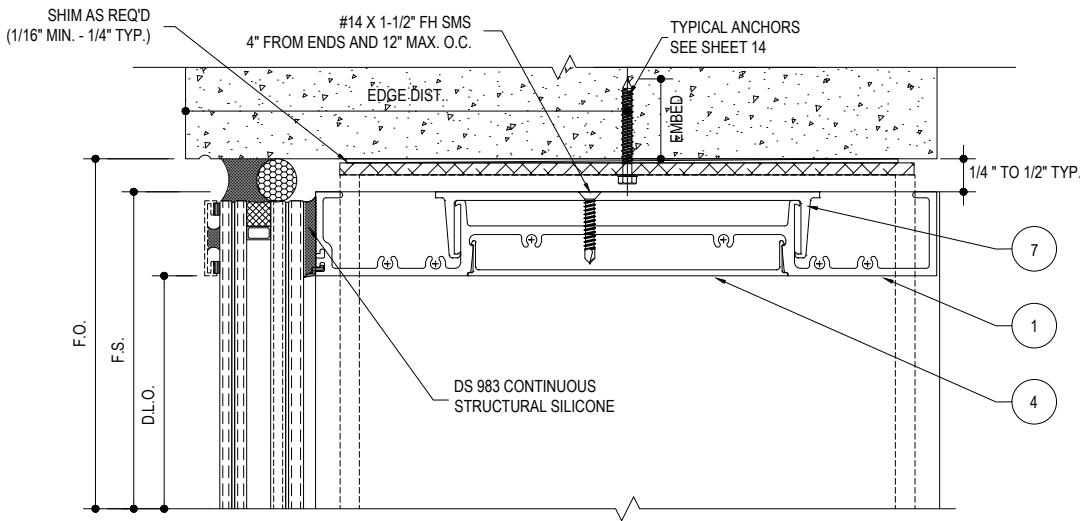
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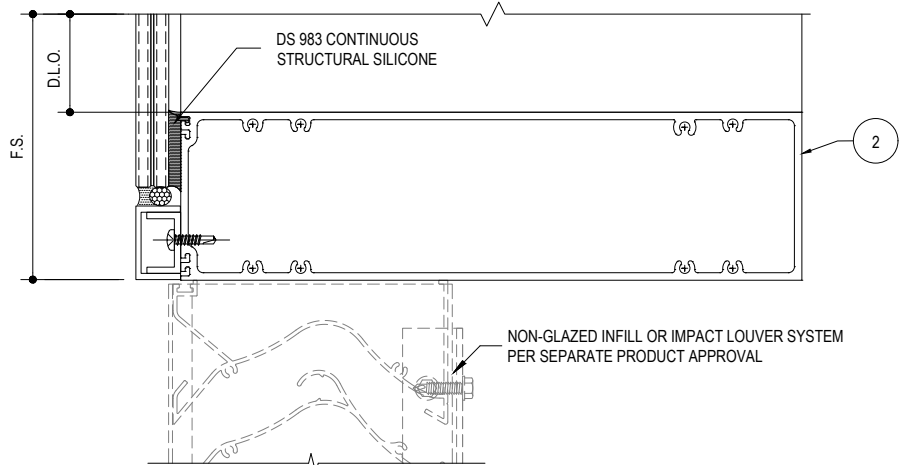


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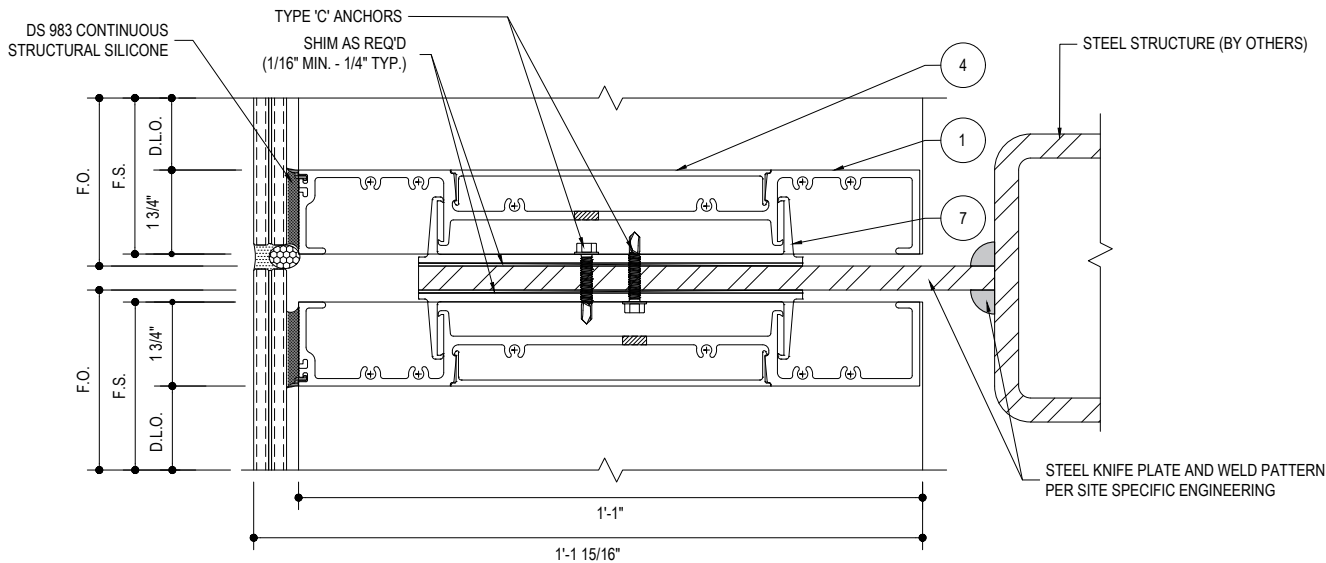
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HEAD W/ T-CLIP OR L-CLIP DETAIL



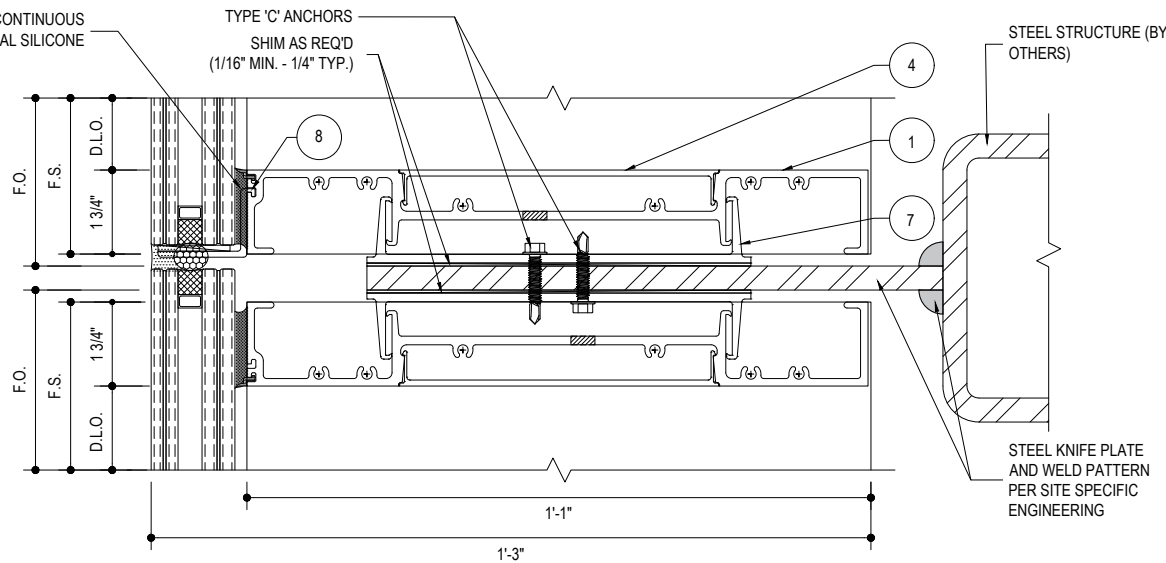
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LOUVER HEAD DETAIL



3

LAMINATED GLASS KNIFE PLATE DETAIL

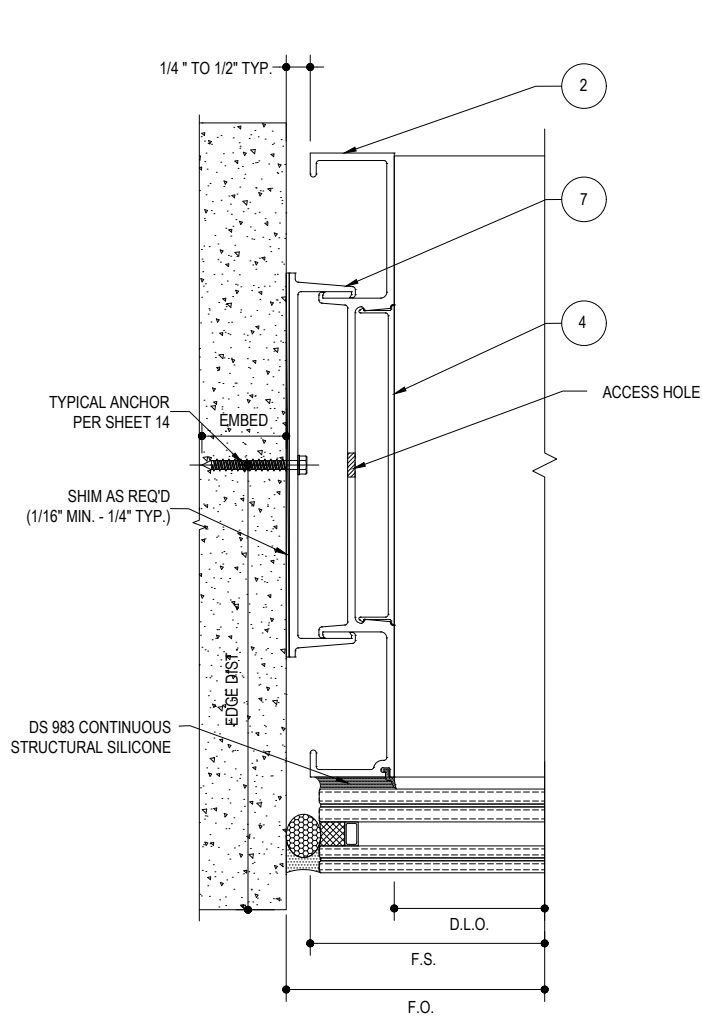


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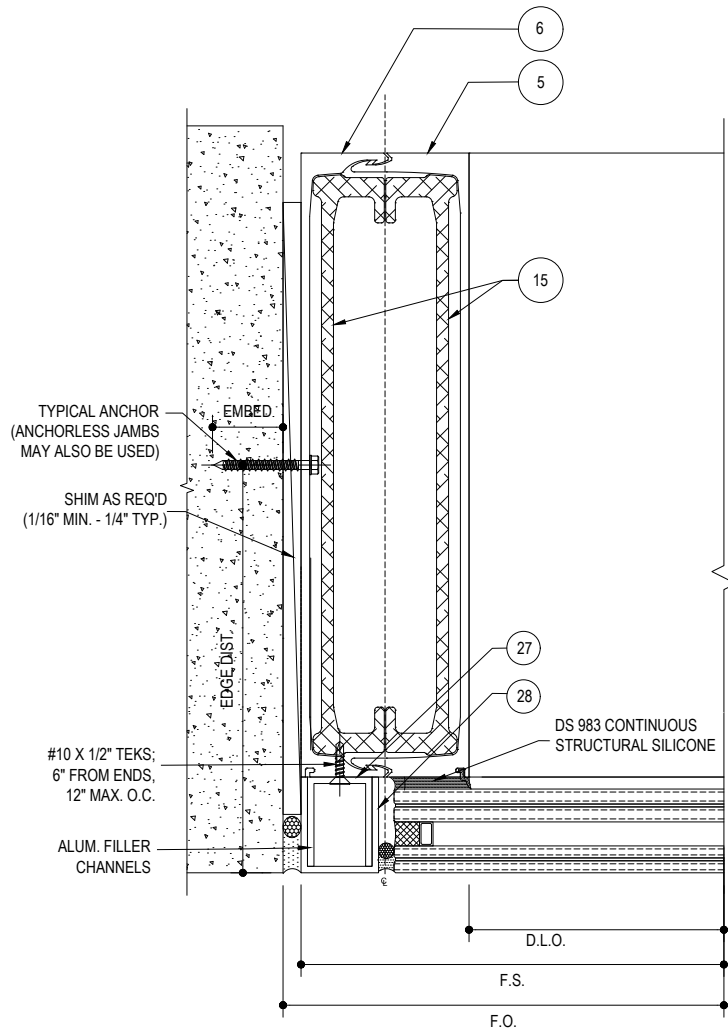
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HORIZONTAL SECTION DETAILS

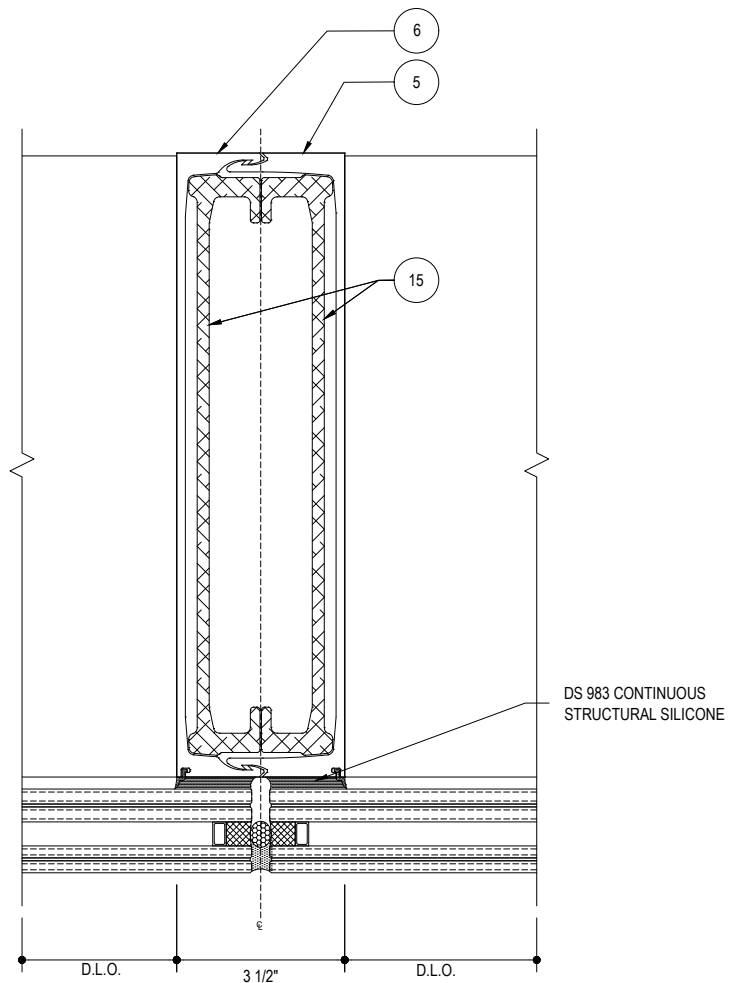
FL#29520.1



1 JAMB DETAIL

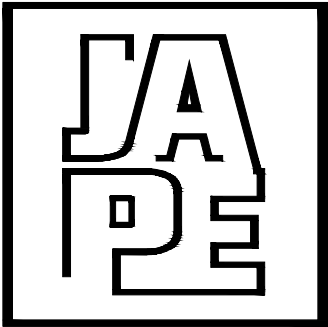


2 ALTERNATE JAMB DETAIL
ALTERNATE JAMB MAY ALSO BE USED WITHOUT ANCHORS



3 MULLION DETAIL

- ANCHORLESS ALTERNATE JAMB NOTES:**
- ANY REINFORCEMENT THAT IS USED AT THE INTERMEDIATE VERTICAL MULLIONS SHALL ALSO BE USED AT THE ALTERNATE JAMBS.
 - WHEN ANCHORLESS ALTERNATE JAMBS CONDITIONS WILL BE UTILIZED, THE GAP BETWEEN THE ALTERNATE JAMB AND SUBSTRATE SHALL BE REVIEWED AND VERIFIED BY SEALANT MANUFACTURER
 - WHEN ANCHORLESS ALTERNATE JAMBS CONDITIONS WILL BE UTILIZED, THE ANCHORING AT JAMB ENDS MUST BE DESIGNED TO SITE SPECIFIC CONDITIONS



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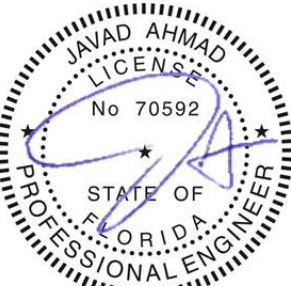
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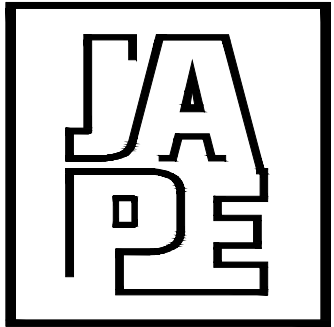
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No.	DATE	BY	DESCRIPTION
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Scale:	N/A		
Drawn by:	SA		
Check by:	PK		
Drawing no.	JA-1749-23		

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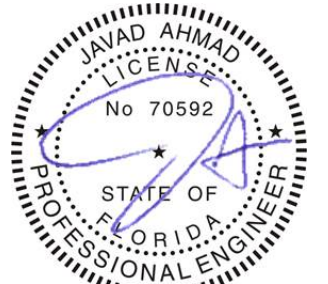
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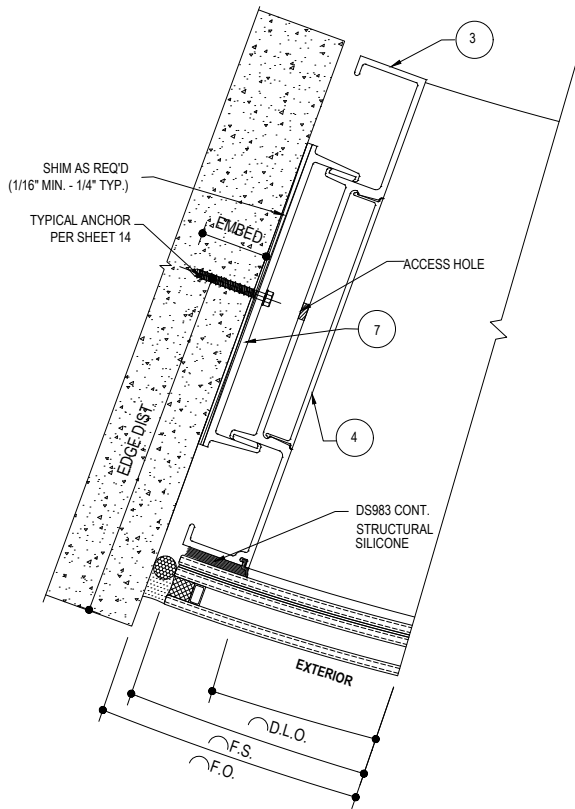
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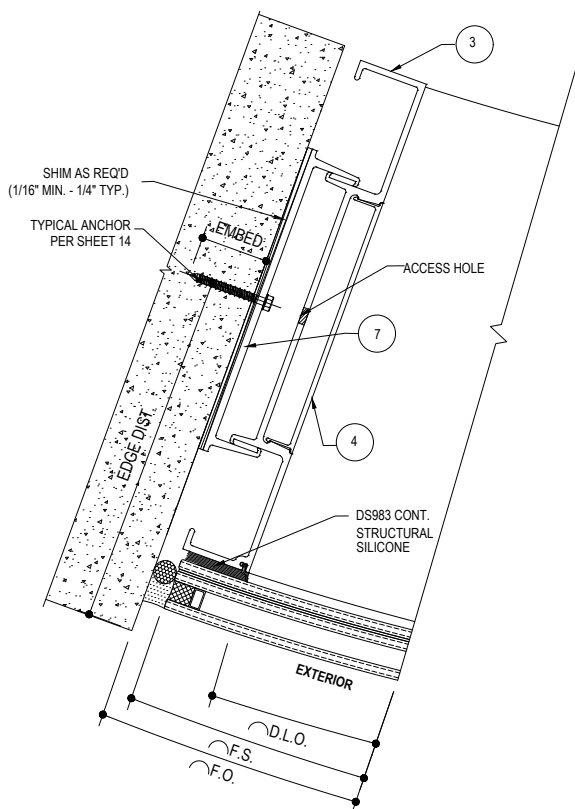
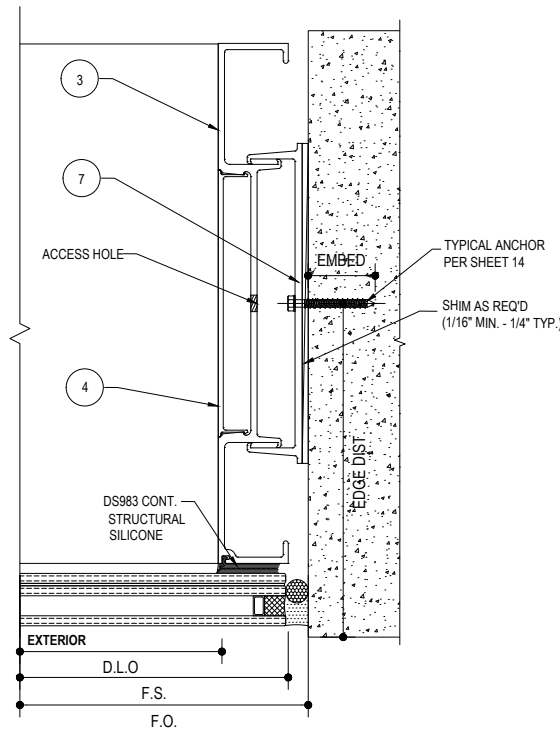
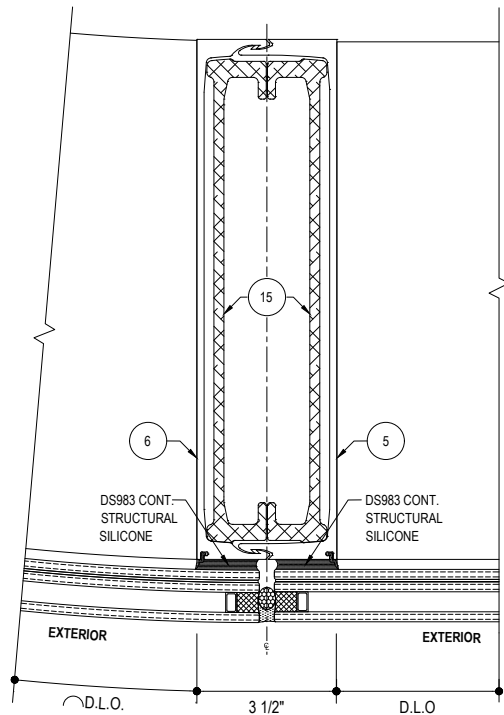
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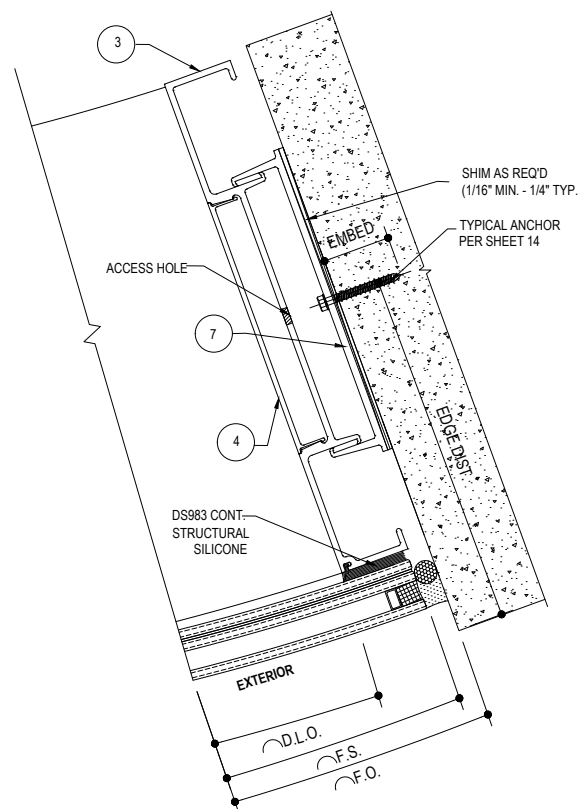
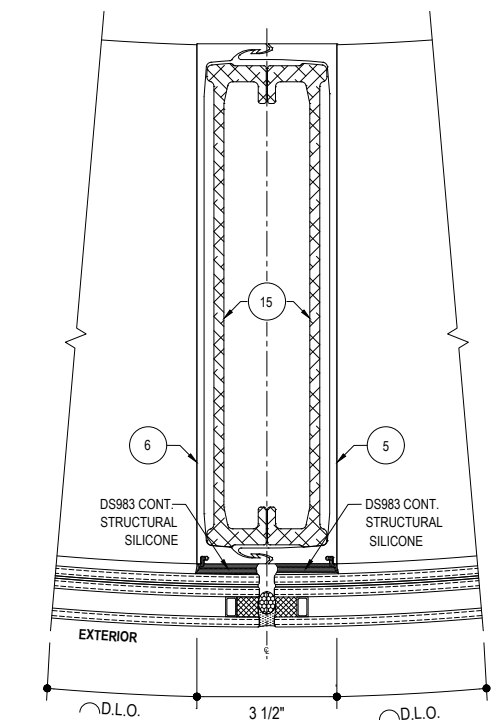
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1 CURVED GLASS TO STRAIGHT SEGMENT HORIZONTAL SECTION DETAIL



2 CURVED GLASS HORIZONTAL SECTION DETAILS



HORIZONTAL SECTION DETAILS (CONT.)

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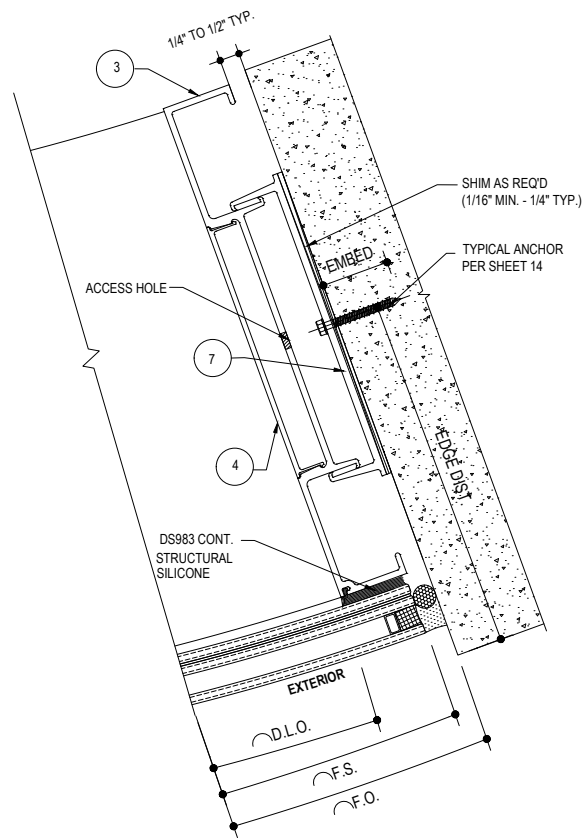
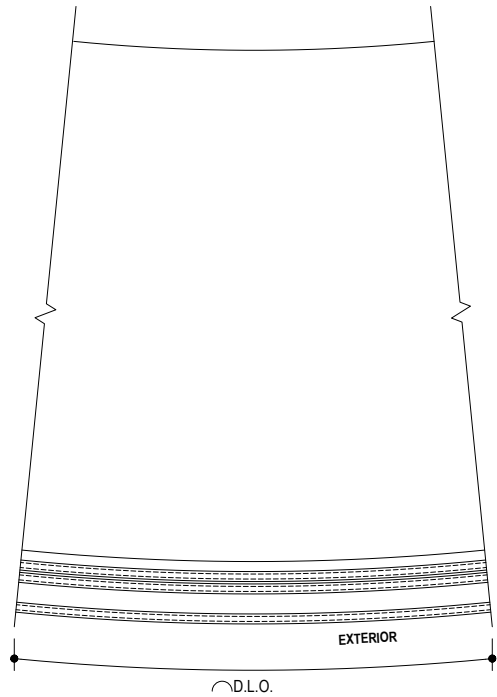
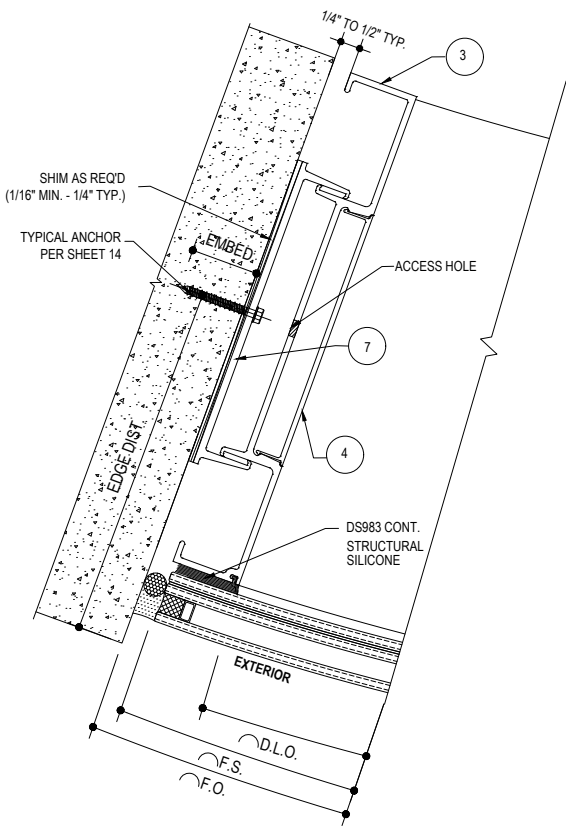
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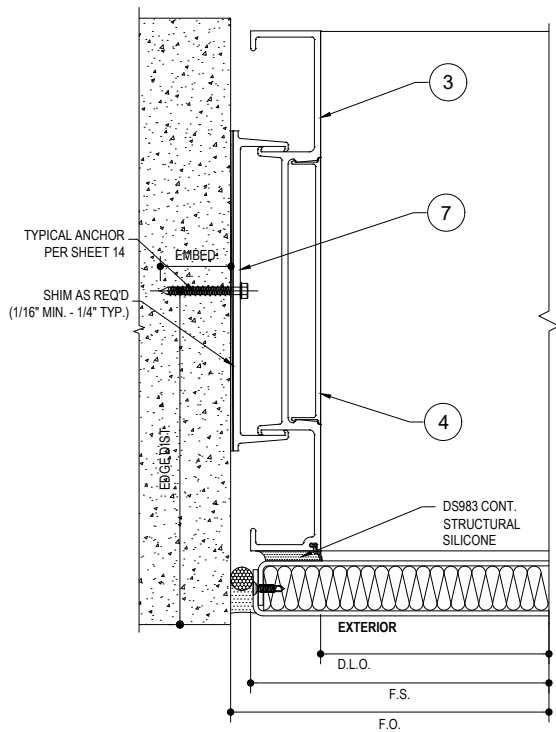
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26B

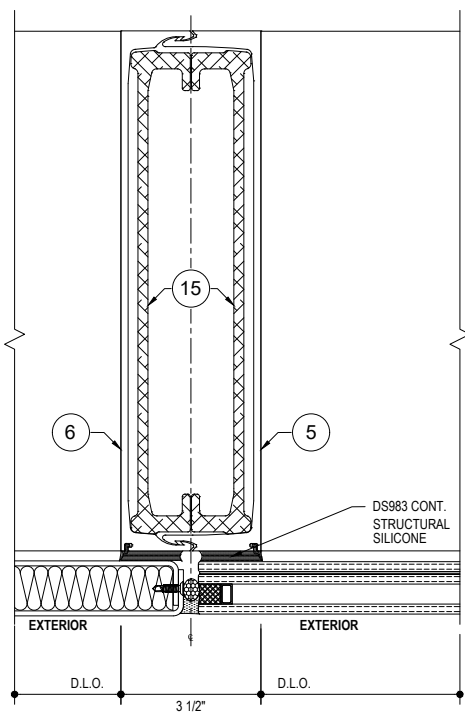
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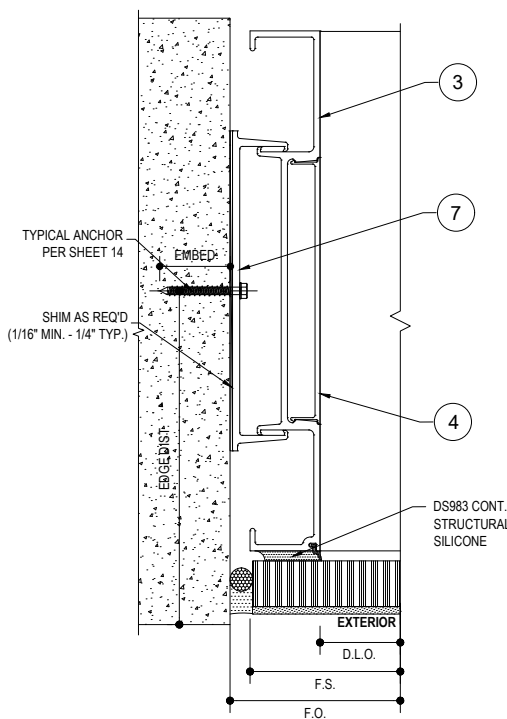
1 CURVED GLASS HORIZONTAL SECTION



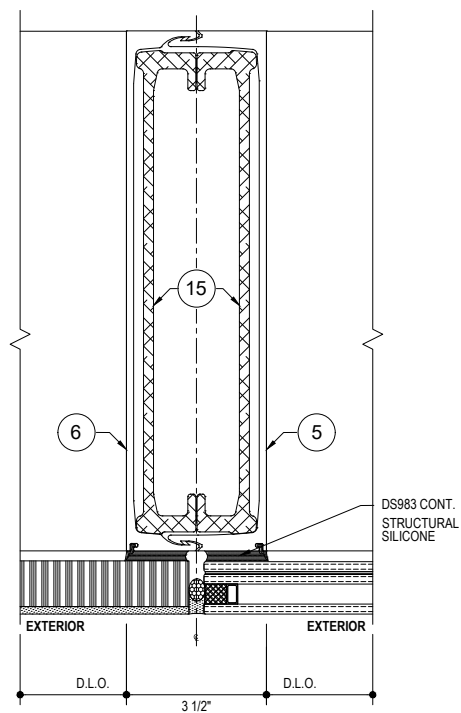
1 JAMB DETAIL (ALUMINUM PANEL)



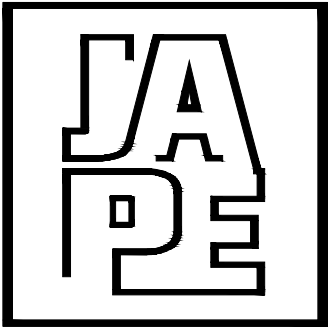
2 MULLION DETAIL (ALUMINUM PANEL)



3 JAMB DETAIL (STONE PANEL)



4 MULLION DETAIL (STONE PANEL)



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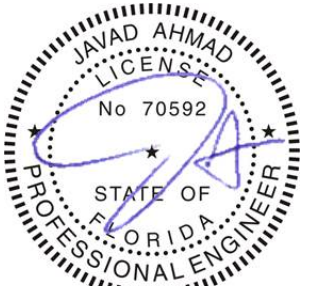
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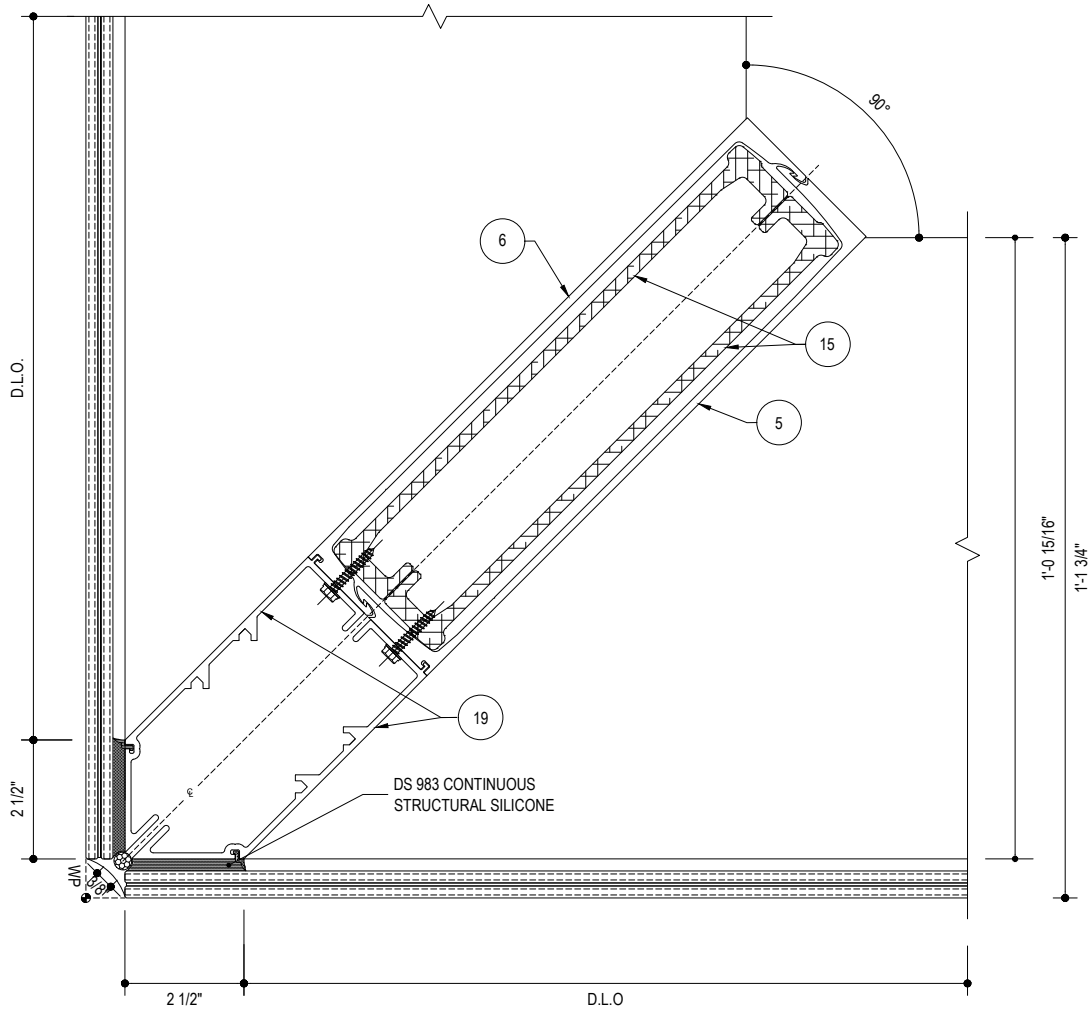
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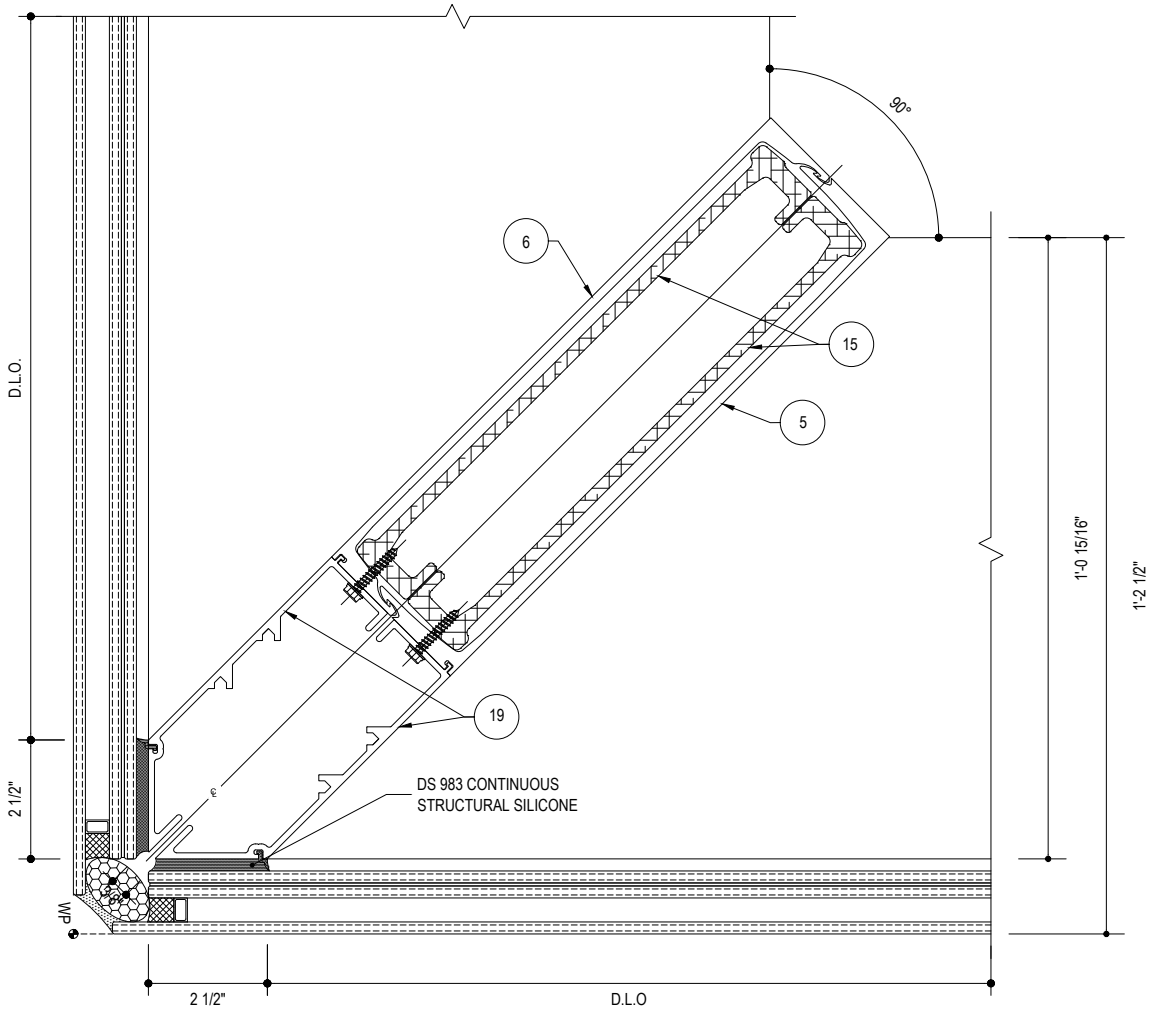
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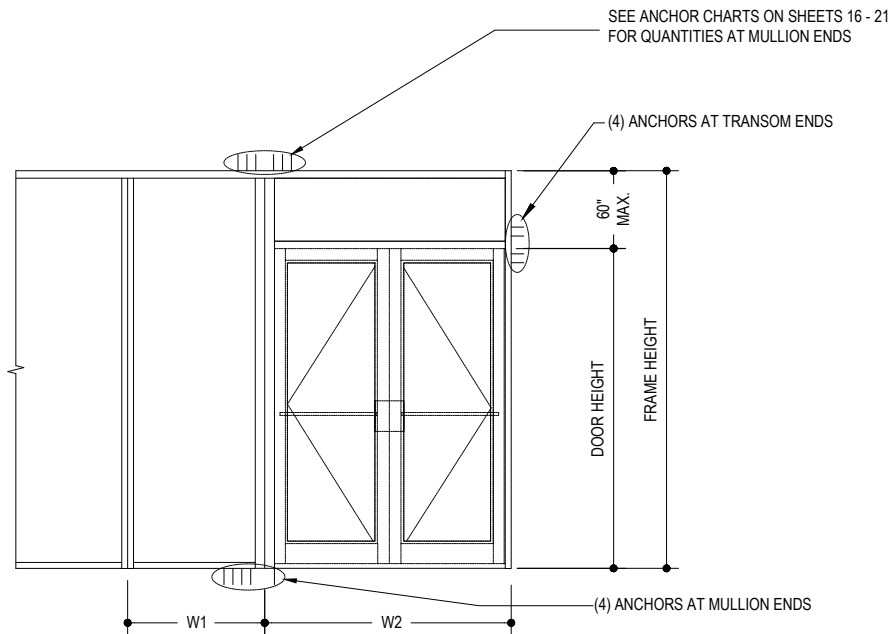
1 LAMINATED GLASS CORNER MULLION DETAIL



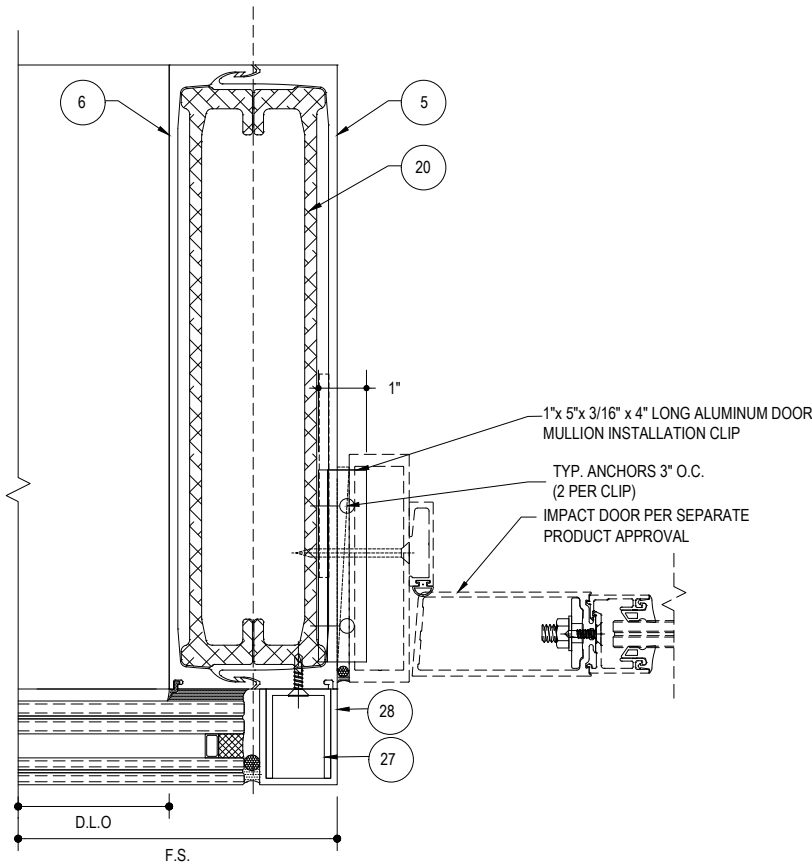
2 INSUL. LAMI. GLASS CORNER MULLION DETAIL

DOOR CONNECTION DETAILS

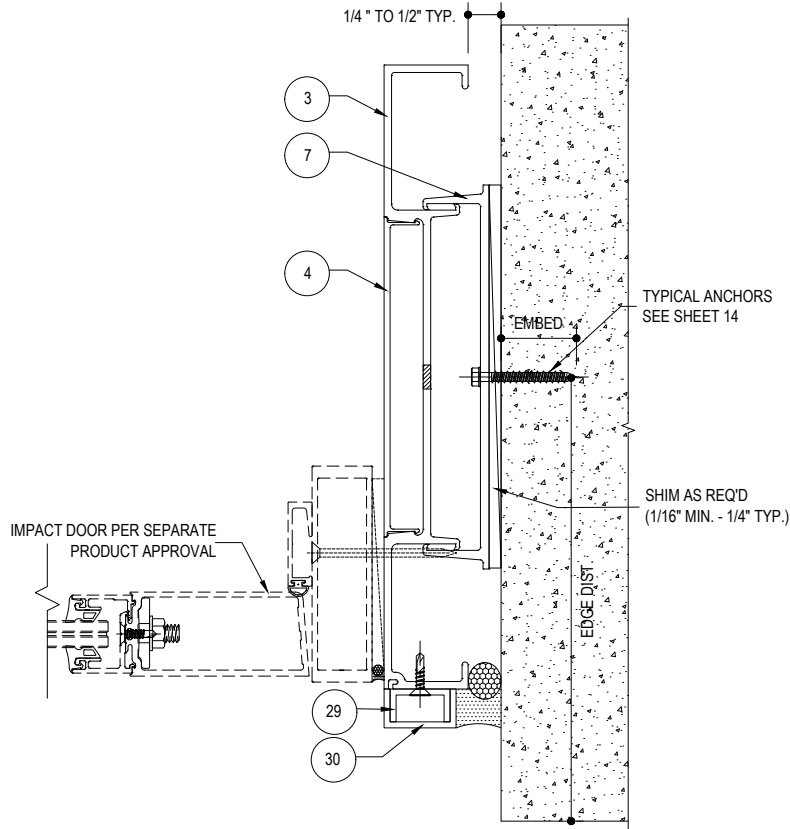
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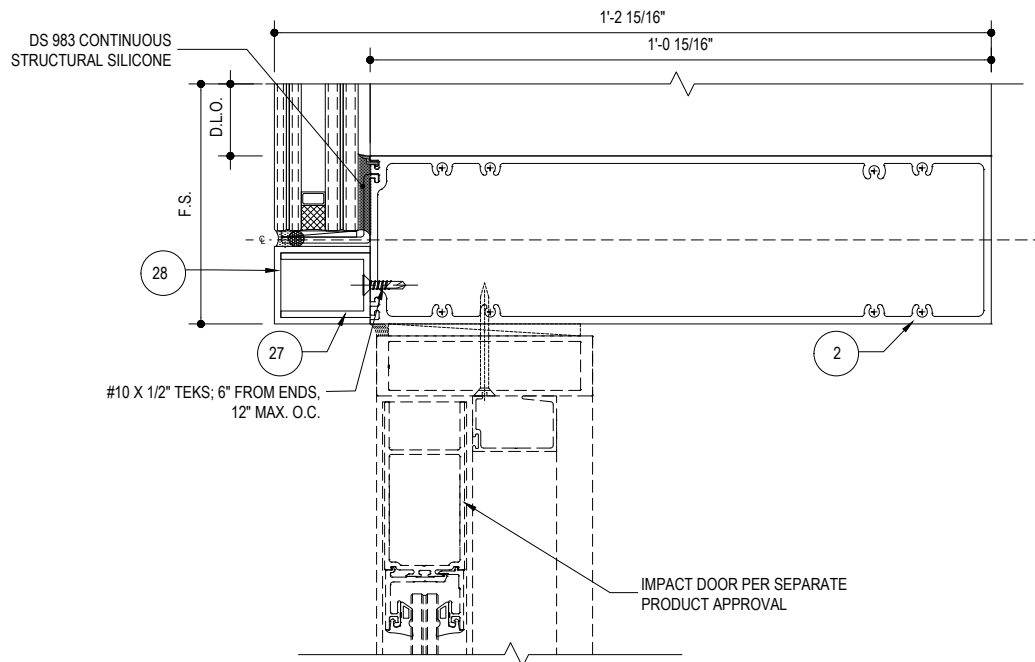
REFER TO SHEETS 13 FOR MULLION REINFORCEMENT INFO AND SHEETS 16-21 FOR ANCHORING INFO AT DOOR UNITS



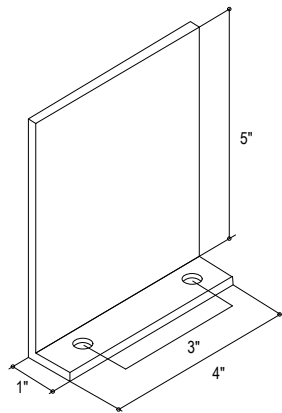
1 INT. VERTICAL AT DOOR JAMB DETAIL



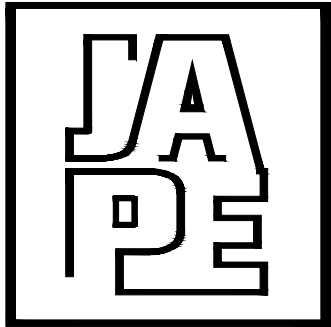
2 JAMB VERTICAL AT DOOR JAMB DETAIL



3 HORIZONTAL AT DOOR HEADER DETAIL



DOOR MULLION INSTALLATION CLIP
1 X 5 X 3/16" ALUM. ANGLE



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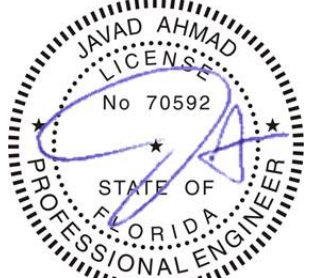
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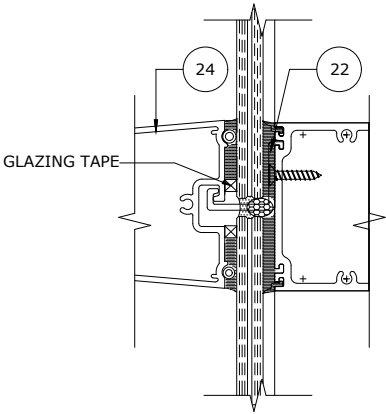
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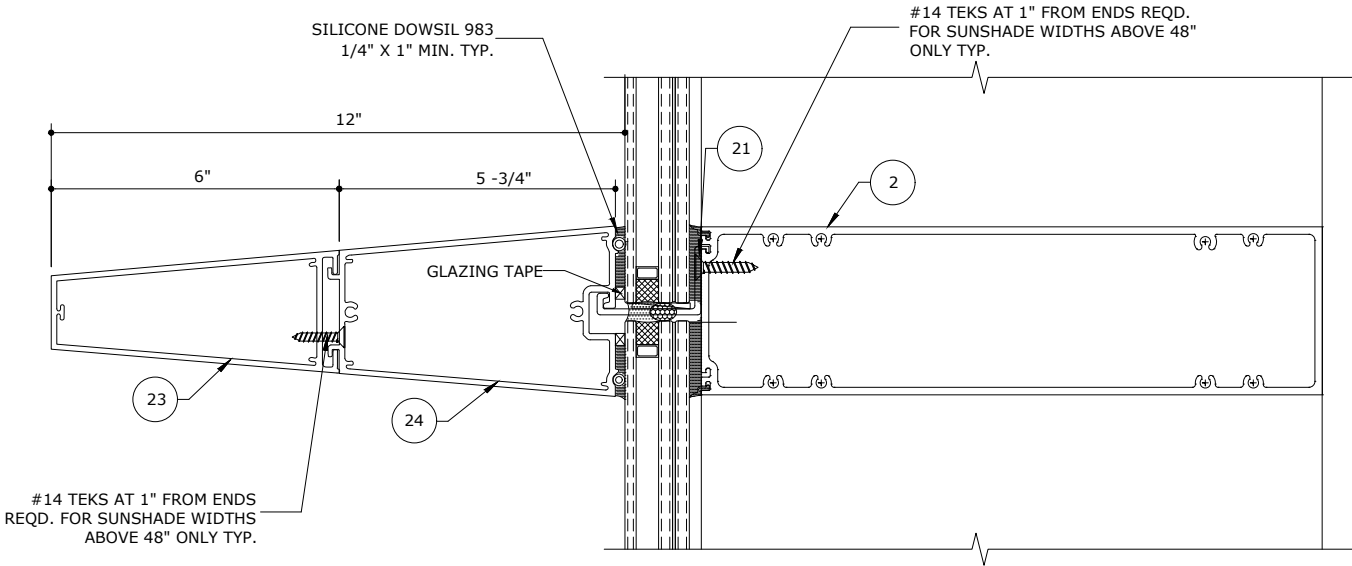


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12" FIN RATING CHART					
MAXIMUM SUNSHADE WIDTH	MAXIMUM FRAME HEIGHT	UPLIFT = 150		UPLIFT = 204.7	
		EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
60"	96"	120.0	145.0	120.0	145.0
66"		120.0	145.0	116.5	145.0
68"		120.0	145.0	105.7	145.0
60"	108"	120.0	145.0	120.0	145.0
66"		120.0	145.0	111.5	145.0
68"		120.0	145.0	100.8	145.0
60"	120"	120.0	145.0	120.0	145.0
66"		120.0	145.0	108.7	145.0
68"		120.0	145.0	97.9	145.0

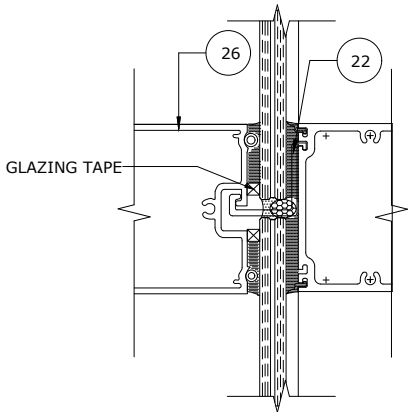


1 INTERMEDIATE HORIZONTAL LAMI. WITH 12" APPLIED FIN

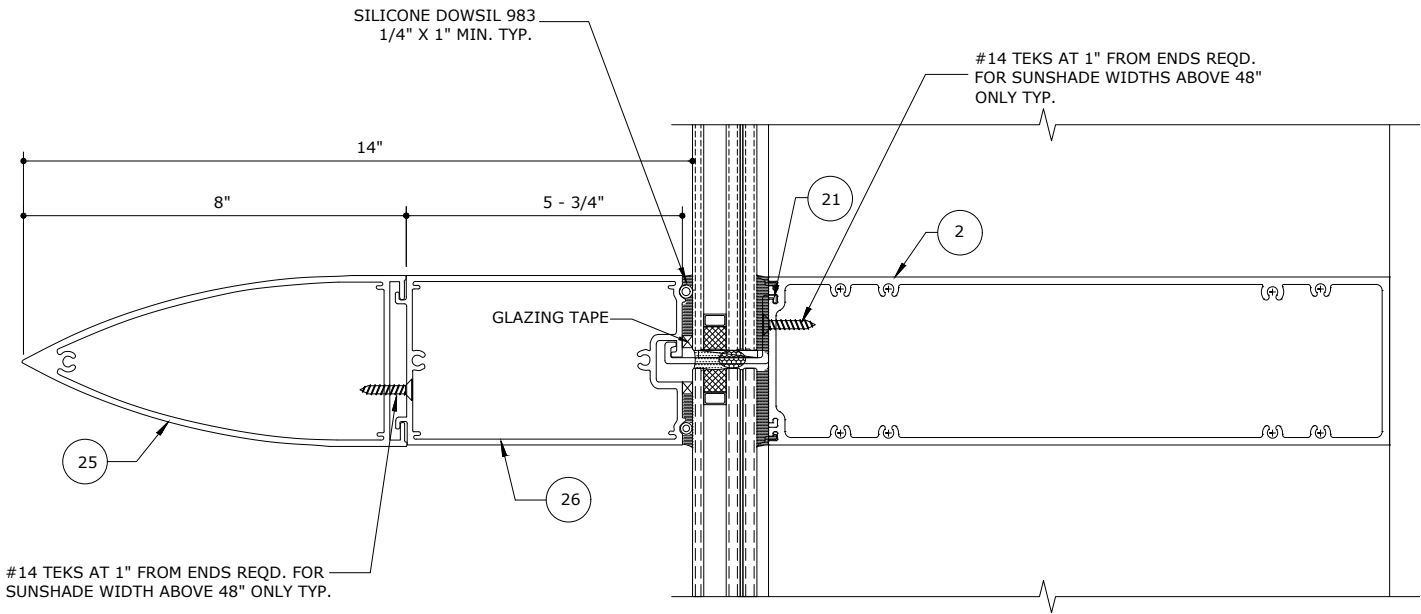


2 INTERMEDIATE HORIZONTAL I.G.U. WITH 12" APPLIED FIN

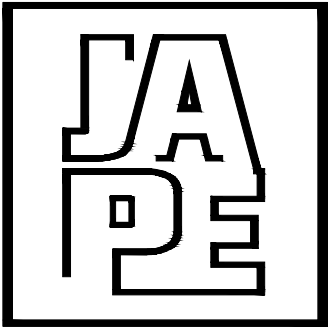
14" FIN RATING CHART					
MAXIMUM SUNSHADE WIDTH	MAXIMUM FRAME HEIGHT	UPLIFT = 110		UPLIFT = 150	
		EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
60"	96"	120	145.0	120.0	145.0
66"		118	145.0	116.5	145.0
68"		106.7	145.0	105.7	145.0
60"	108"	120	145.0	120.0	145.0
66"		113	145.0	111.5	145.0
68"		101.8	145.0	100.8	145.0
60"	120"	120	145.0	120.0	145.0
66"		110.1	145.0	108.7	145.0
68"		98.8	145.0	97.9	145.0



3 INTERMEDIATE HORIZONTAL LAMI. WITH 14" APPLIED FIN



4 INTERMEDIATE HORIZONTAL I.G.U. WITH 14" APPLIED FIN



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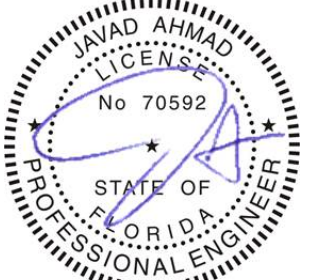
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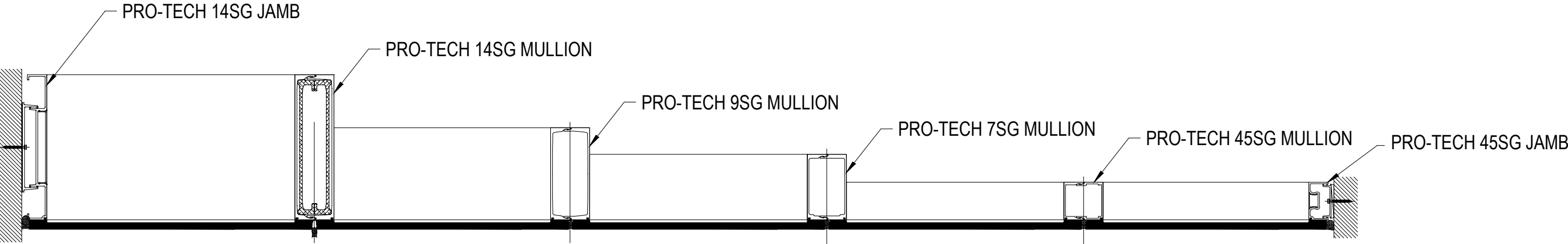


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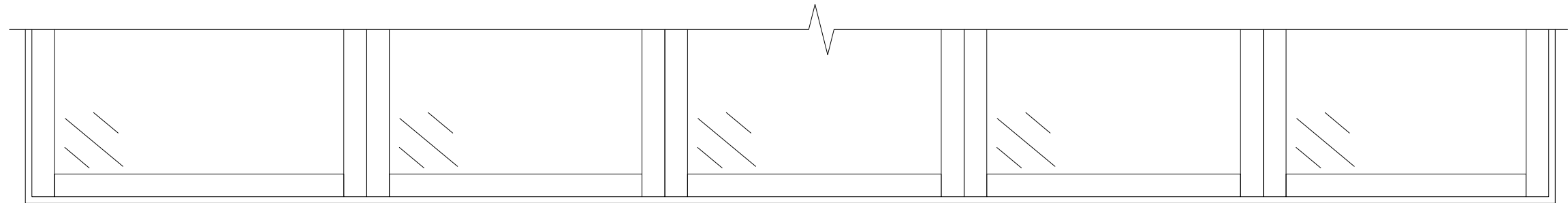
THE CTC PRO-TECH SERIES 45SG, 7SG, 9SG, & 14SG, ARE APPROVED TO BE INTEGRATED AND CAN TRANSITION BETWEEN SYSTEMS AS SHOWN BELOW.

PRO-TECH SYSTEMS INTEGRATION NOTES: SHALL BE REVIEWED AND APPROVED BY A LICENSED PROFESSIONAL ENGINEER.

1. MULLION CAPACITY: SHALL BE BASED ON THE DESIGN PRESSURES AND TRIBUTARY AREA APPLIED TO THE MULLION AND GOVERNED BY THE MULLION'S SYSTEM PRODUCT APPROVAL.
2. ANCHOR QUANTITY & SPACING: SHALL BASED ON THE LARGER SYSTEM PRODUCT APPROVAL
3. SUNSHADE MAX. WIDTH: SHALL BE BASED ON THE HORIZONTAL MEMBER PER SYSTEM'S PRODUCT APPROVAL.



EXAMPLE PLAN VIEW OF INTEGRATED SYSTEMS



EXAMPLE ELEVATION VIEW OF INTEGRATED SYSTEMS

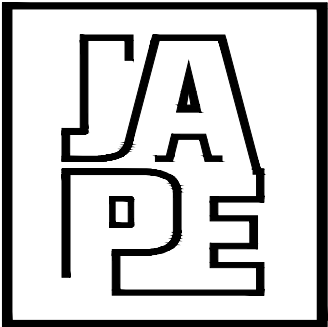
PRO-TECH SYSTEMS HORIZONTAL MEMBER INTEGRATION NOTES: SHALL BE REVIEWED AND APPROVED BY A LICENSED PROFESSIONAL ENGINEER.

1. HORIZONTAL MEMBER: HORIZONTAL AND TRANSOMS FROM SMALLER SYSTEMS CAN BE INTEGRATED INTO LARGER SYSTEMS. SHALL BE BASED ON THE DESIGN PRESSURES AND TRIBUTARY AREA APPLIED TO THE HORIZONTAL MEMBER AND GOVERNED BY THE HORIZONTAL'S SYSTEM PRODUCT APPROVAL.

MAX. HORIZONTAL TRANSOM
SIZE PER SYSTEM

SYSTEM	WIDTH
45SG	96"
7SG	125" / 68" *
9SG	125" / 68" *
14SG	125"

* : FOR MEMBERS WITH SUNSHADE



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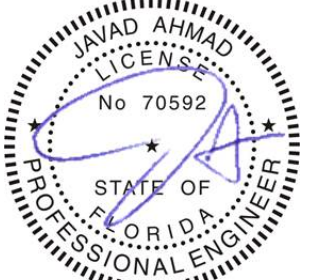
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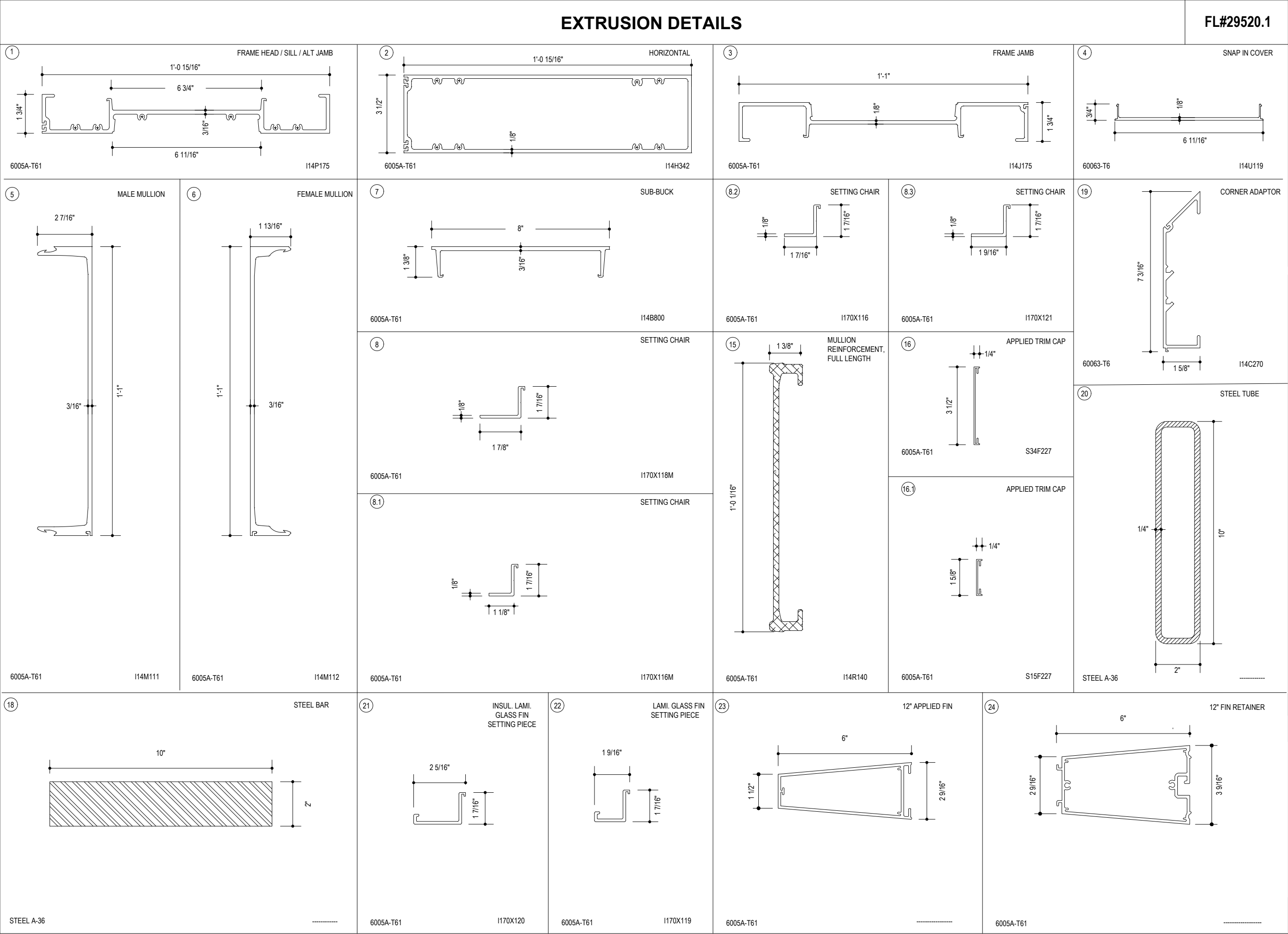
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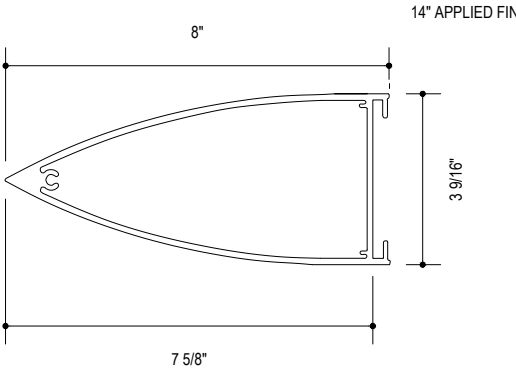
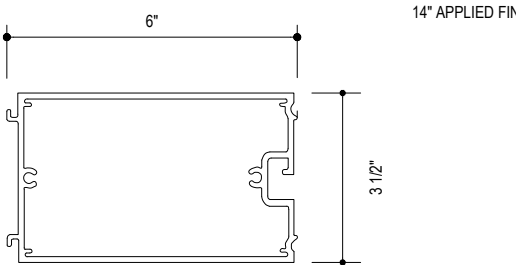
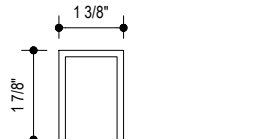
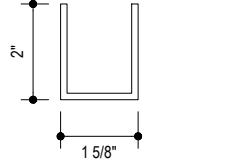
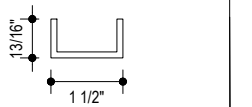
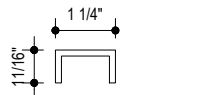
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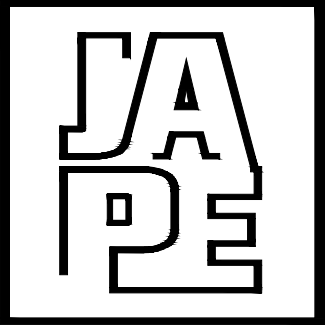
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EXTRUSION DETAILS (CONT.)						FL#29520.1
25  6005A-T61	26  6005A-T61	27  ALUMINUM	28  ALUMINUM	29  ALUMINUM	30  ALUMINUM	



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

PROJECT :

PRO-TECH 14SG ALUMINUM
CURTAINWALL SYSTEM

CLIENT :

CRAWFORD TRACEY
CORPORATION

3301 S.W. 13TH DR.,
DEERFIELD BEACH, FL 33442
(954) 698-6888

REVISION

No.	DATE	BY	DESCRIPTION

Date:	06-15-2026
Scale:	N/A
Drawn by:	SA
Check by:	PK
Drawing no.	JA-1749-23

Eng: JAVAD AHMAD, PE
CIVIL FLA. PE # 70592 - C.A.N.34254



SEALED: 06-17-2026

BILL OF MATERIALS	FL#29520.1
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PA

ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF. / SUPPLIER / REMARKS
1	I14P175	AS REQD.	FRAME HEAD/SILL	6005A-T61	-----
2	I14H342	AS REQD.	HORIZONTAL	6005A-T61	-----
3	I14J175	AS REQD.	FRAME JAMB	6005A - T61	-----
4	I14U119	AS REQD.	SNAP IN COVER	6063 - T6	-----
5	I14M111	AS REQD.	MALE MULLION	6005A - T61	-----
6	I14M112	AS REQD.	FEMALE MULLION	6005A - T61	-----
7	I14B800	AS REQD.	SUB-BUCK	6005A - T61	-----
8	I70X118M	AS REQD.	SETTING CHAIR	6005A - T61	-----
8.1	I70X116M	AS REQD.	SETTING CHAIR	6005A - T61	-----
8.2	I70X116	AS REQD.	SETTING CHAIR	6005A - T61	-----
8.3	I70X121	AS REQD.	SETTING CHAIR	6005A - T61	-----
9	1/4" x 1 -1/4"	AS REQD.	FRAME ASSEMBLY SCREWS	ST. STEEL	PAN HEAD PHILLIPS
10	170X118M	AS REQD.	5" LONG GLASS SUPPORT	6005A - T61	-----
11	-----	AS REQD.	SETTING BLOCK (1/16" x 1")	NEOPRENE	DUROMETER 85 ± 5 SHORE A
12	-----	AS REQD.	BACKER ROD	POLYURETHANE	TUNDRAFOAM BY INDUSTRIAL THERMO POLYMERS LTD.
13	-----	AS REQD.	SHIM	PLASTIC	FALMOUTH PLASTICS
14	-----	AS REQD.	SHEAR BLOCKS	6005A - T61	-----
15	I14R140	AS REQD.	MULLION REINFORCEMENT, FULL LENGTH	6005A - T61	-----
16	S34F227	AS REQD.	APPLIED TRIM CAP (OPTIONAL)	6063 - T6	-----
16.1	S15F227	AS REQD.	APPLIED TRIM CAP (OPTIONAL)	6063 - T6	-----
17	-----	AS REQD.	DOUBLE SIDED TAPE	FOAM	-----
18	-----	AS REQD.	STEEL BAR REINFORCEMENT	STEEL (A36)	-----
19	I14C270	AS REQD.	CORNER ADAPTOR	6005A-T61	-----
20	-----	AS REQD.	STEEL TUBE REINFORCEMENT	STEEL (A36)	-----
21	I70X120	AS REQD.	INSUL. LAMI. GLASS FIN SETTING PIECE	6005A - T61	-----
22	I70X119	AS REQD.	LAMINATED GLASS FIN SETTING PIECE	6005A - T61	-----
23	-----	AS REQD.	12" APPLIED FIN	6005A - T61	-----
24	-----	AS REQD.	12" FIN RETAINER	6005A - T61	-----
25	-----	AS REQD.	14" APPLIED FIN	6005A - T61	-----
26	-----	AS REQD.	14" FIN RETAINER	6005A - T61	-----
27	-----	AS REQD.	INT. FILLER CHANNEL(INSU. LAM. GLASS)	ALUMINUM	-----
28	-----	AS REQD.	EXT. FILLER CHANNEL(INSU. LAM. GLASS)	ALUMINUM	-----
29	-----	AS REQD.	INT. FILLER CHANNEL(LAM. GLASS)	ALUMINUM	-----
30	-----	AS REQD.	EXT. FILLER CHANNEL(LAM. GLASS)	ALUMINUM	-----



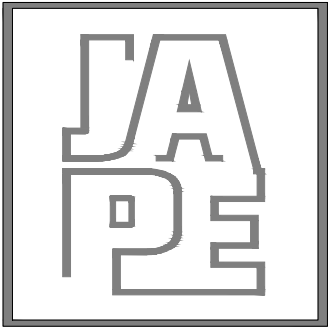
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A circular professional engineer seal for the State of Florida. The outer ring contains the text "JAVAD AHMAD" at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by three stars. Inside the ring, the word "LICENSE" is at the top, "No 70592" is in the center, and "STATE OF FLORIDA" is at the bottom. A large, stylized signature in blue ink is written across the seal, overlapping the text and the inner circle.

33	OF 34
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JAVAD AHMAD PE, inc

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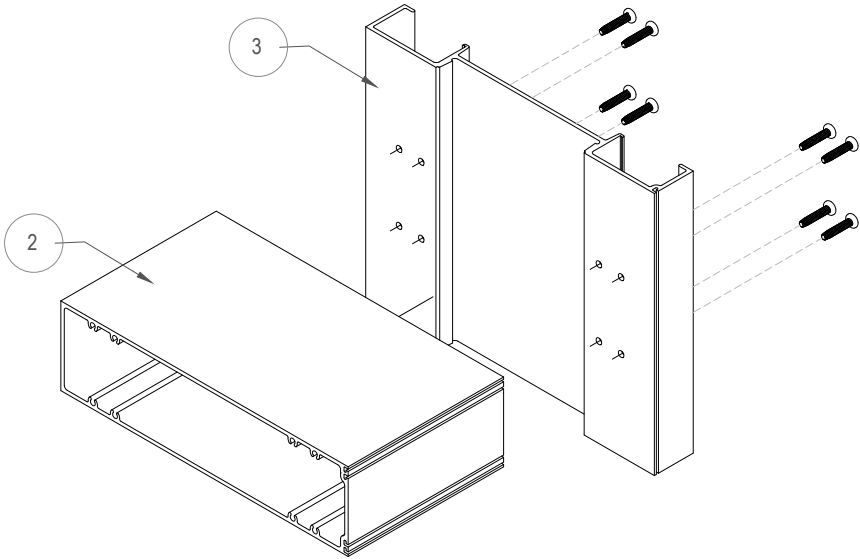
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Drawing no. JA-1749-23

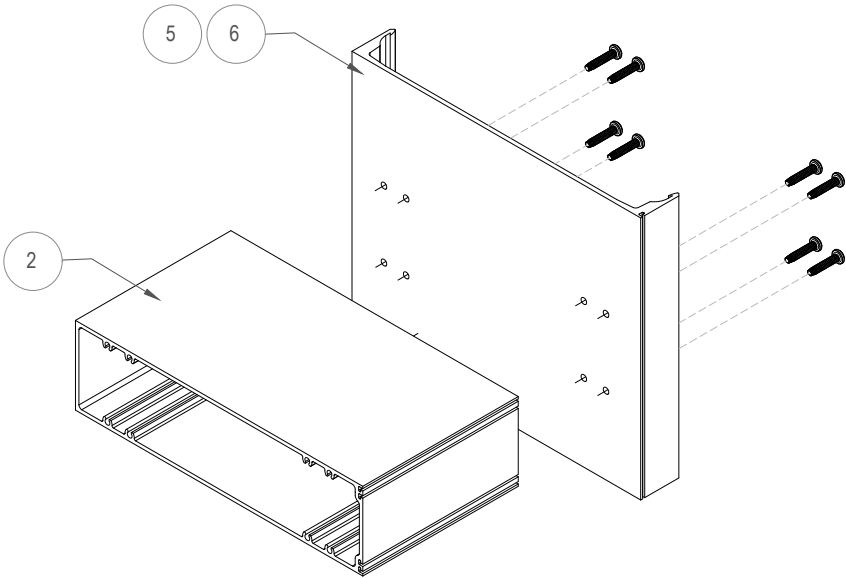
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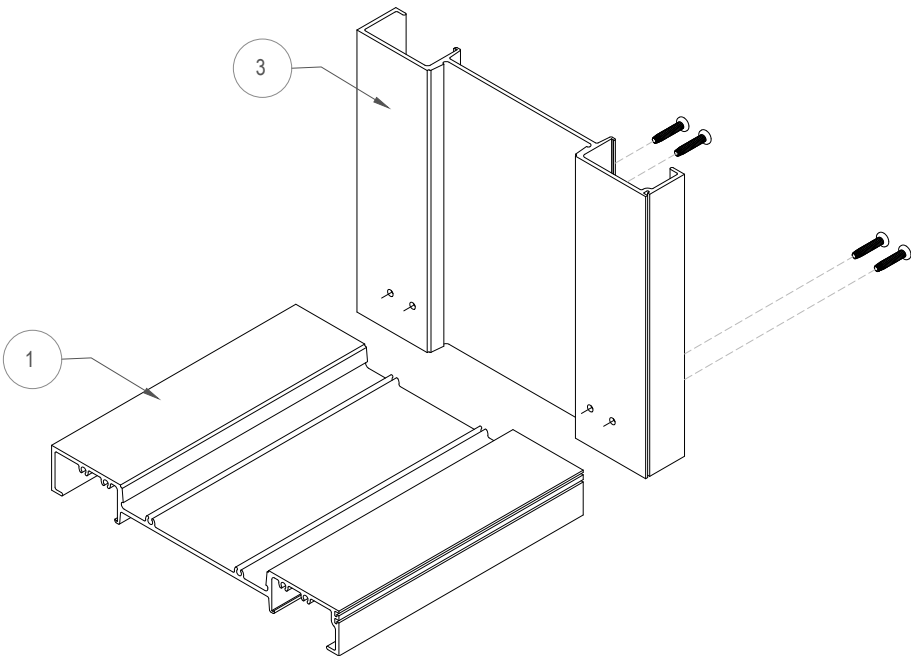
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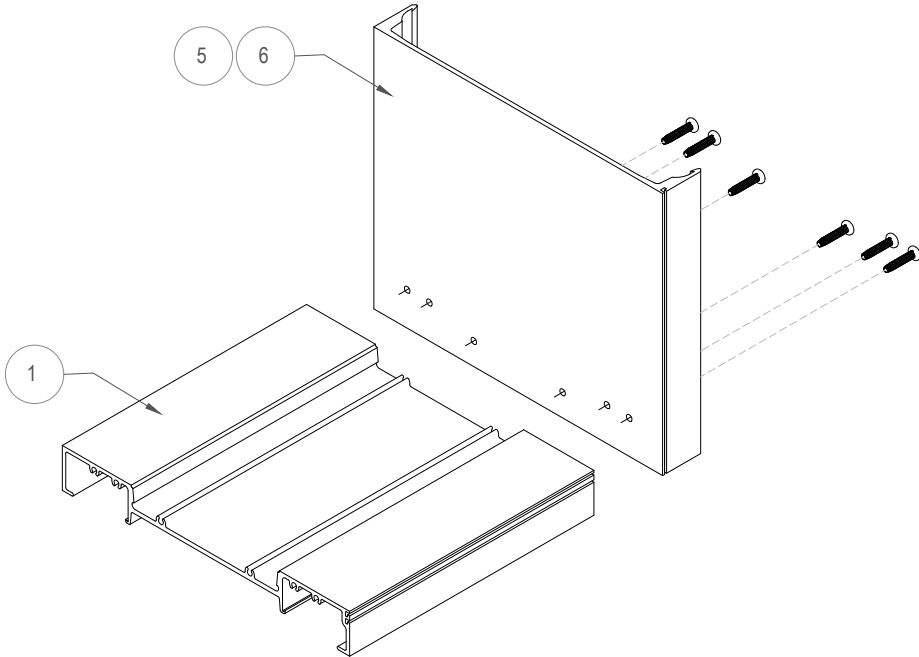
JAMB TO TRANSOM CONNECTION



MULLION TO TRANSOM CONNECTION



JAMB TO SILL CONNECTION



MULLION TO SILL CONNECTION