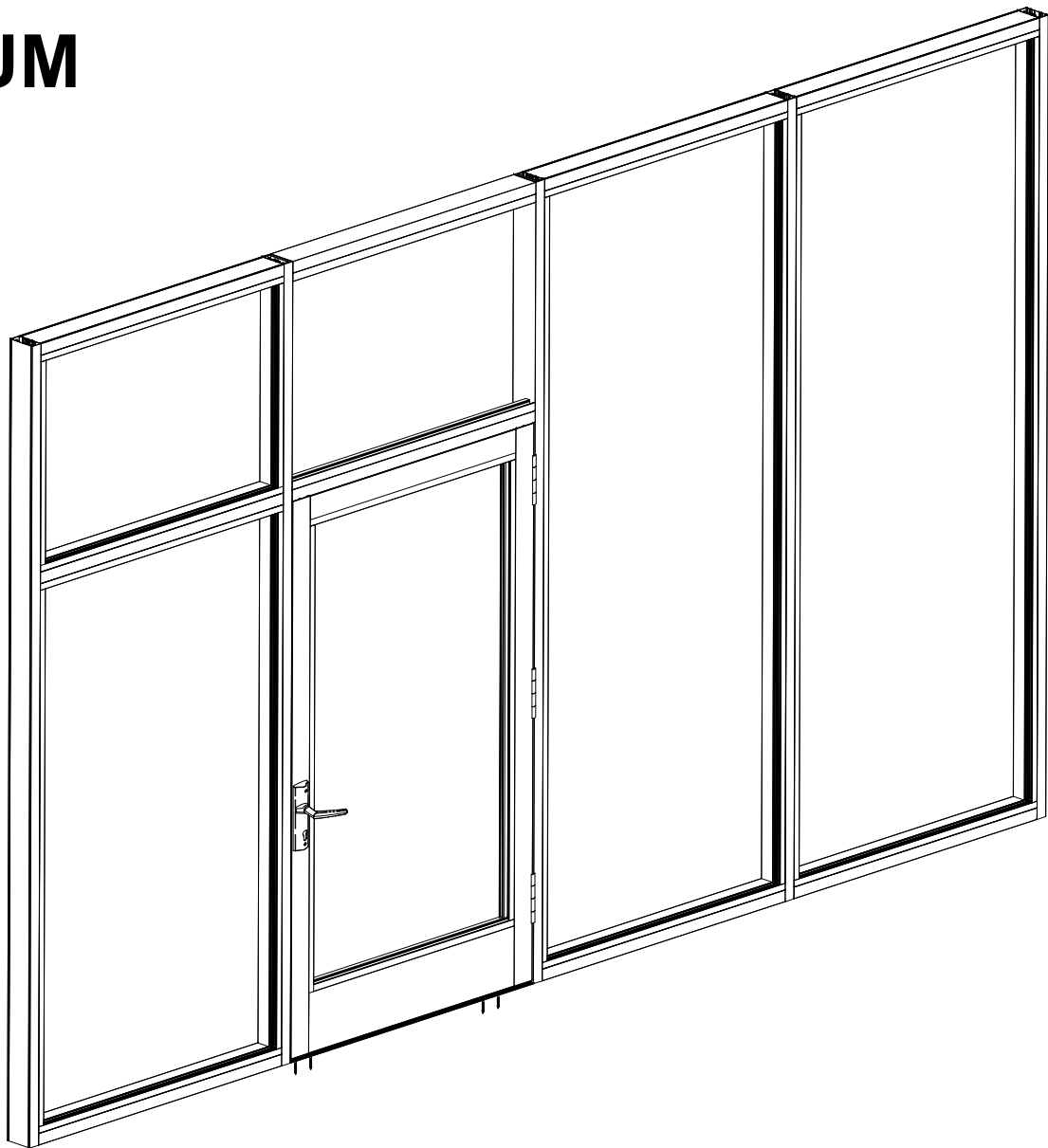


ADDITIONAL DETAILS:  
TO OBTAIN AUTOCAD/REVIT COMPATIBLE  
DETAILS OF THIS PRODUCT, KINDLY GET  
IN TOUCH WITH US CONTACTING US VIA  
OUR OFFICIAL EMAIL ADDRESS:  
CONTACT@JA-PE.COM.

# **SERIES ENV-450 ALUMINUM WINDOW WALL SYSTEM** *(LARGE & SMALL MISSILE IMPACT)*



1. THIS SYSTEM PRESENTED HEREIN HAS UNDERGONE DESIGN AND TESTING IN FULL COMPLIANCE WITH THE FLORIDA BUILDING CODE EIGHTH EDITION (2023) AND IS INTENDED FOR USE IN HIGH VELOCITY HURRICANE ZONE PER TAS 201/202/203..
2. THE DESIGN PRESSURES OUTLINED IN THIS DOCUMENT ARE DERIVED FROM MAXIMUM TESTED PRESSURES AND INCORPORATE A 1.5 SAFETY FACTOR.
3. THE PRESSURES PROVIDED IN THIS CERTIFICATION ARE DETERMINED USING THE ALLOWABLE STRESS DESIGN METHOD (ASD).
4. THIS PRODUCT HAS BEEN RIGOROUSLY TESTED IN ACCORDANCE WITH THE STANDARDS DESCRIBED IN NOTE 1 OF THE GENERAL NOTES. IT IS CONFIRMED TO BE RESISTANT TO LARGE MISSILE IMPACT, THEREBY NOT NECESSITATING THE USE OF IMPACT-RESISTANT SHUTTERS.
5. THE DESIGN OF THIS SYSTEM DOES NOT INCORPORATE A 33-1/3% INCREASE IN ALLOWABLE STRESS. FOR WOOD ANCHOR DESIGN, A WIND LOAD DURATION FACTOR OF  $CD=1.6$  HAS BEEN EMPLOYED.
6. THE ARCHITECT/ENGINEER OF RECORD RESPONSIBLE FOR THE PROJECT'S SUPERSTRUCTURE, WITH WHICH THIS DESIGN IS ASSOCIATED, SHALL ENSURE THE INTEGRITY OF ALL SUPPORTING SURFACES. COORDINATION WITH THE PERMITTING CONTRACTOR IS REQUIRED, AND PROPER ANCHORING OF WOOD BUCKS (BY OTHERS) MUST FACILITATE LOAD TRANSFER TO THE EXISTING STRUCTURE.

7. THE DETAILS OF THE SYSTEM PROVIDED HEREIN ARE OF A GENERIC NATURE AND NOT OFFER SPECIFIC SITE INFORMATION. FOR SITE CONDITIONS THAT DIFFER FROM THOSE SPECIFIED HERE, A LICENSED ENGINEER OR REGISTERED ARCHITECT MUST PREPARE SITE-SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS CERTIFICATION.
8. THE CONTRACTOR IS ACCOUNTABLE FOR INSULATING ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS (E.G., STEEL WITH ALUMINUM).
9. THE SUBSTITUTION OF FASTENERS DESCRIBED IN THIS CERTIFICATION IS PERMISSIBLE, PROVIDED THE ALTERNATIVE ANCHOR EXHIBITS STRENGTH EQUAL TO OR GREATER THAN THE ORIGINALLY SPECIFIED FINAL APPROVAL OF SUBSTITUTED ANCHORS SHALL BE GRANTED BY RELEVANT AUTHORITIES.
10. THE WOOD SCREWS REFERENCED IN THIS CERTIFICATION MUST MEET A MINIMUM GRADE OF 2 (FU = 74,000 PSI).
11. THE ENGINEER'S SEAL AFFIXED HERE VALIDATES THE STRUCTURAL DESIGN AS PRESENTED SOLELY. ANY USE OF THIS SPECIFICATION BY THE CONTRACTOR OR OTHERS INDEMNIFIES AND SAVES THE ENGINEER HARMLESS FROM ALL COSTS AND DAMAGES, INCLUDING LEGAL FEES AND APPELLATE FEES ARISING FROM MATERIAL FABRICATION, SYSTEM ERECTION, AND CONSTRUCTION PRACTICES BEYOND THE SCOPE CALLED FOR BY LOCAL, STATE, AND FEDERAL CODES OR DEVIATIONS FROM THE PLAN.
12. NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED BEYOND WHAT IS EXPRESSLY PROVIDED IN THIS DOCUMENT.

13. ALTERATIONS, ADDITIONS, OR ANY MARKINGS TO THIS DOCUMENT ARE STRICTLY PROHIBITED AND WILL INVALIDATE THIS CERTIFICATION.

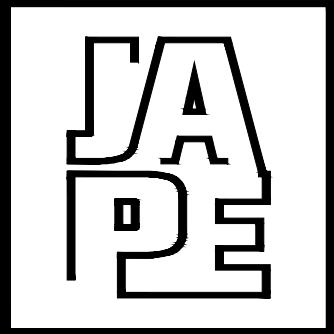
14. PROPER SAFETY MEASURES MUST BE OBSERVED DURING THE INSTALLATION AND USE OF THIS SYSTEM, EVEN THOUGH THEY ARE NOT EXPLICITLY LISTED IN THIS CERTIFICATION.

15. EACH PRODUCT SHALL BE PERMANENTLY LABELED WITH A MINIMUM OF ONE LABEL PER SYSTEM, CONTAINING THE FOLLOWING REQUIRED INFORMATION:

ENVIRALUM IND. INC.  
5100 NW 72 AVE.  
UNIT C MIAMI, FL 33166  
PHONE: 305.752.4411  
FAX: 305.406.3877

**THIS PRODUCT IS APPROVED FOR IMPACT RESISTANT LEVEL 'D' & 'E'.**

FL# 19002.1



JAVAD AHMAD PE, inc

7320 NW 58th St, Miami, FL 33166  
Ph: (305) 424-8001  
support@ja-pe.com

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

PROJECT :

ENV-450 ALUMINUM  
WINDOW WALL SYSTEM  
(L.M.I. & S.M.I.)

CLIENT :

ENVIRALUM IND. INC.

5100 NW 72 AVE.  
UNIT C MIAMI, FL 33166  
PHONE: 305.752.4411  
FAX: 305.406.3877

## REVISION

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| Drawing no. | JA-1144-25 |

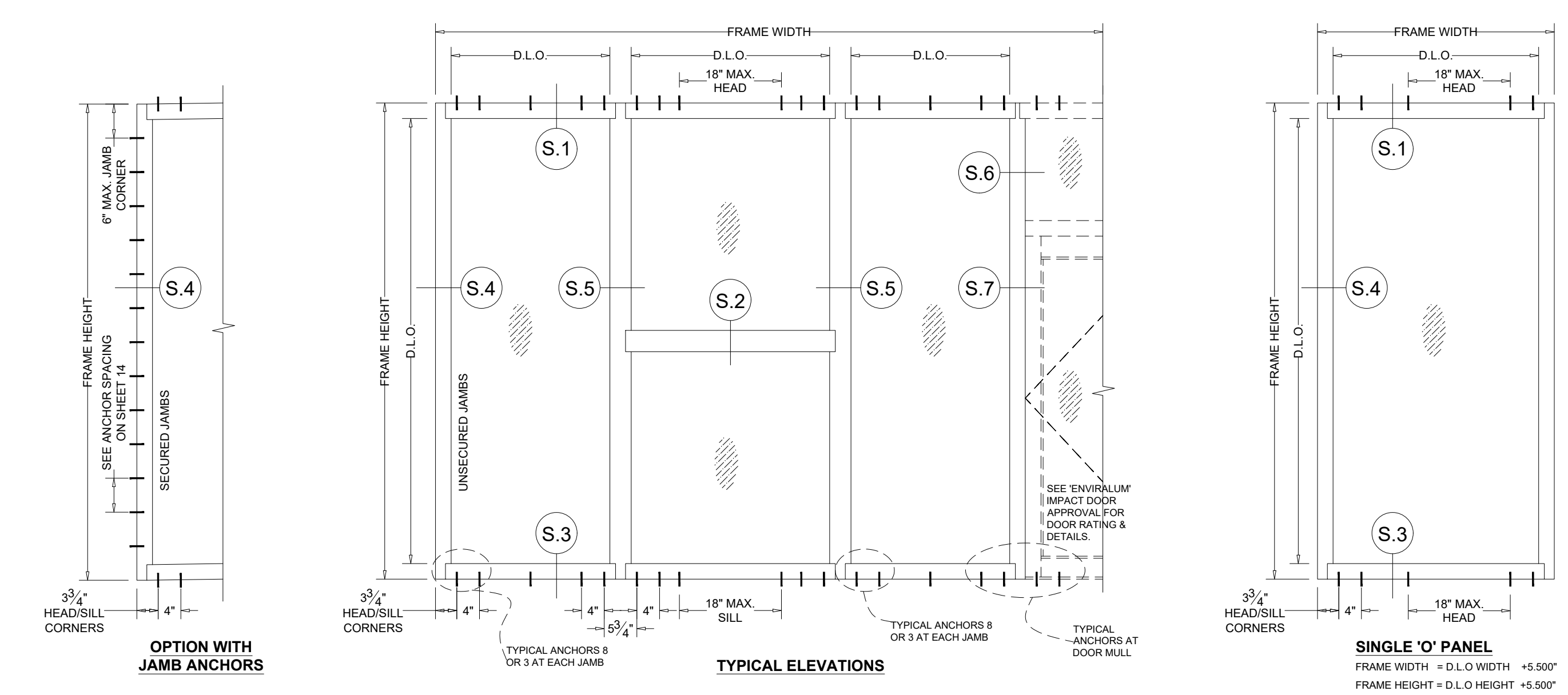
Eng: JAVAD AHMAD, PE  
CIVIL FLA. PE # 70592 - C.A.N. 34254



SEALED: 02/27/2026

COVER PAGE

SHEET No  
01 OF 15



INSTRUCTIONS:

USE DRAWING AS FOLLOWS.

STEP 1:

DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG, HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.

STEP 2:

SEE CHARTS ON SHEET 3 & 5 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE.

STEP 3:

CHECK MULLION CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEET 6 FOR STOREFRONT MULLION AND SHEETS 9 & 10 FOR DOOR MULLION. THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.

STEP 4:

USING CHART ON SHEETS 7 & 8 SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.

STEP 5:

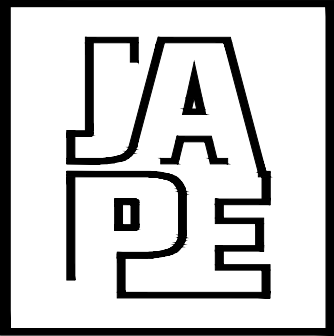
THE LOWEST VALUE RESULTING FROM STEPS 2, 3 AND 4 SHALL APPLY TO ENTIRE SYSTEM.

GENERAL NOTES:

- PRODUCT COMPLIES WITH REQUIREMENTS OF ANSI Z97.1.
- THIS SYSTEM IS RATED FOR LARGE & SMALL MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED. WINDOW WALL FRAMES MAY BE WITH OR WITHOUT THERMAL BREAK.
- A. CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION PROVIDED HE/SHE DOES NOT DEViate FROM THE CONDITIONS DETAILED ON THIS DOCUMENT.
- B. THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
- C. SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD(E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D. ENGINEER OF RECORD, ACTING AS A DELEGATED ENGINEER TO THE P.E.D. ENGINEER SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.
- D. THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

SEALANT  
ALL FRAME CORNERS,JOINTS, MULLION SEAMS AND PERIMETER OF GLAZING BEAD TO FRAME SEALED WITH SILICONE SEALANT.

FL# 19002.1

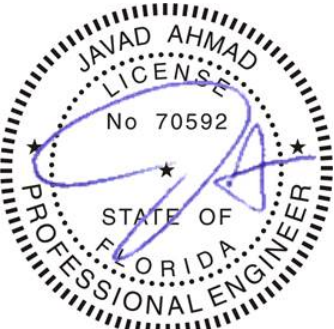


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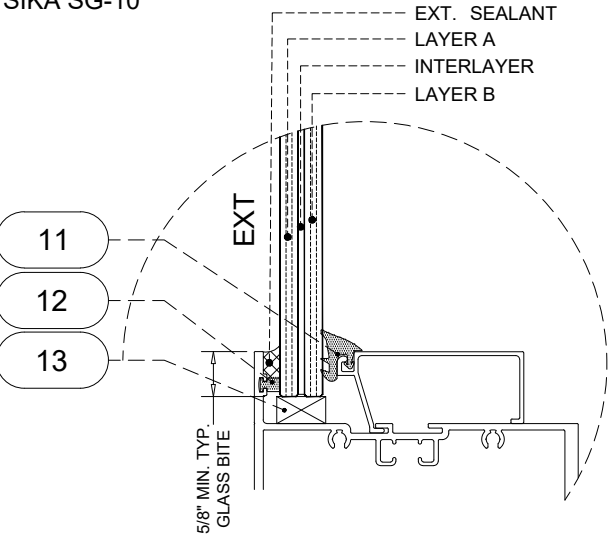
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| PROJECT :                                                                             |      |            |             |
| ENV-450 ALUMINUM WINDOW WALL SYSTEM<br>(L.M.I. & S.M.I)                               |      |            |             |
| CLIENT :                                                                              |      |            |             |
| ENVIRALUM IND. INC.                                                                   |      |            |             |
| 5100 NW 72 AVE.<br>UNIT C MIAMI, FL 33166<br>PHONE: 305.752.4411<br>FAX: 305.406.3877 |      |            |             |
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| Eng: JAVAD AHMAD, PE<br>CIVIL FLA. PE # 70592 — C.A.N. 34254                          |      |            |             |



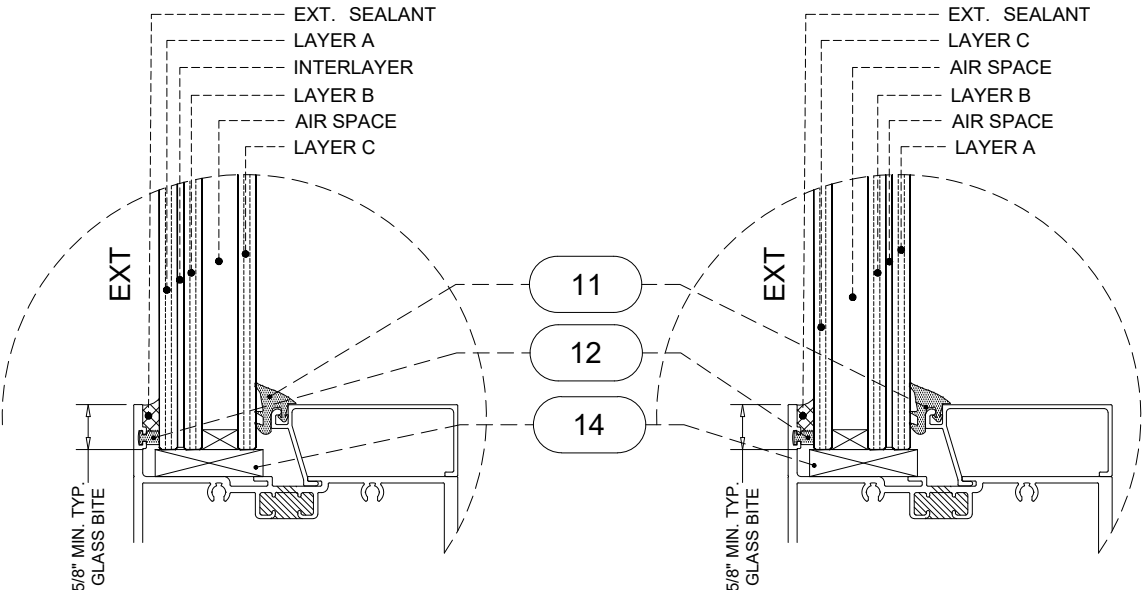
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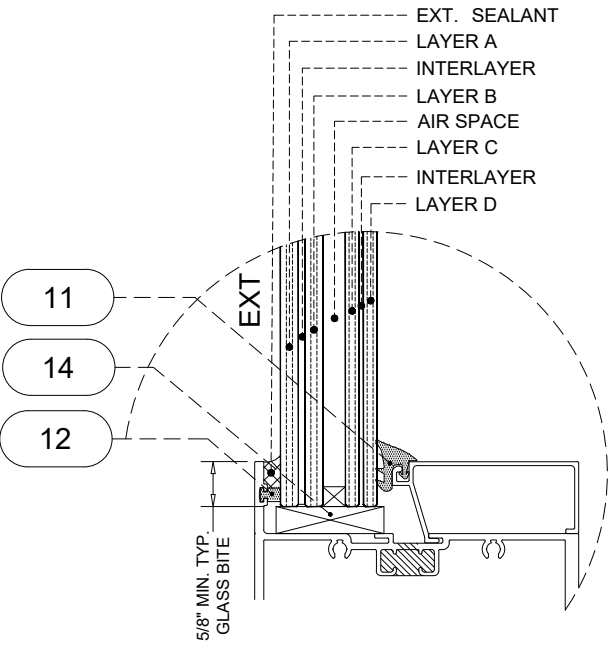
1/2" AIR SPACE CONSIST OF:  
SPACER:  
ALUMINUM BOX SPACER AROUND  
THE PERIMETER OF THE GLASS.  
PERIMETER SEALANT:  
SILICON DOWSIL 791  
GE 2000  
SIKA SG-10



GLASS TYPE  
'A', 'AA', 'B' & 'C'



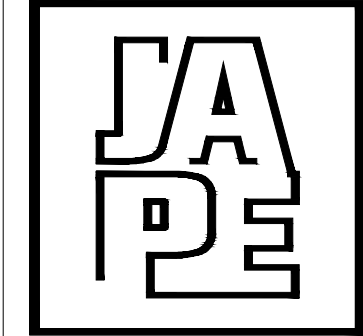
GLASS TYPE  
'A1', 'AA1', 'B1' & 'C1'



GLASS TYPE  
'A2' (OPT.)

| GLAZING DETAILS OF GLASS |                                                 |                         |                                                           |                         |                 |                          |                                         |                          |
|--------------------------|-------------------------------------------------|-------------------------|-----------------------------------------------------------|-------------------------|-----------------|--------------------------|-----------------------------------------|--------------------------|
| GLASS TYPE               | EXT. SEALANT                                    | LAYER A                 | INTERLAYER                                                | LAYER B                 | AIR SPACE       | LAYER C                  | INTERLAYER                              | LAYER D                  |
| A (LVL 'D')              | DOWSIL 791<br>OR<br>GE 2000<br>OR<br>SIKA SG-10 | 1/4" HEAT STREN'D GLASS | 0.090" INTERLAYER TROSIFOL PVB BY 'KURARAY AMERICA, INC.' | 1/4" HEAT STREN'D GLASS | -               | -                        | -                                       | -                        |
| AA (LVL 'D')             |                                                 | 1/4" HEAT STREN'D GLASS | 0.060" INTERLAYER TROSIFOL PVB BY 'KURARAY AMERICA, INC.' | 1/4" HEAT STREN'D GLASS | -               | -                        | -                                       | -                        |
| B (LVL 'D')              |                                                 | 1/4" HEAT STREN'D GLASS | 0.090" INTERLAYER SENTRYGLAS BY 'KURARAY AMERICA, INC.'   | 1/4" HEAT STREN'D GLASS | -               | -                        | -                                       | -                        |
| C (LVL 'E')              |                                                 | 1/4" HEAT STREN'D GLASS | 0.180" INTERLAYER SENTRYGLAS BY 'KURARAY AMERICA, INC.'   | 1/4" HEAT STREN'D GLASS | -               | -                        | -                                       | -                        |
| A1 (LVL 'D')             |                                                 | 1/4" HEAT STREN'D GLASS | 0.090" INTERLAYER TROSIFOL PVB BY 'KURARAY AMERICA, INC.' | 1/4" HEAT STREN'D GLASS | 1/2" AIR SPACE  | 1/4" TEMP. GLASS         | -                                       | -                        |
| AA1 (LVL 'D')            |                                                 | 1/4" HEAT STREN'D GLASS | 0.060" INTERLAYER TROSIFOL PVB BY 'KURARAY AMERICA, INC.' | 1/4" HEAT STREN'D GLASS | 1/2" AIR SPACE  | 1/4" TEMP. GLASS         | -                                       | -                        |
| B1 (LVL 'D')             |                                                 | 1/4" HEAT STREN'D GLASS | 0.090" INTERLAYER SENTRYGLAS BY 'KURARAY AMERICA, INC.'   | 1/4" HEAT STREN'D GLASS | 1/2" AIR SPACE  | 1/4" TEMP. GLASS         | -                                       | -                        |
| C1 (LVL 'E')             |                                                 | 1/4" HEAT STREN'D GLASS | 0.180" INTERLAYER SENTRYGLAS BY 'KURARAY AMERICA, INC.'   | 1/4" HEAT STREN'D GLASS | 1/2" AIR SPACE  | 1/4" TEMP. GLASS         | -                                       | -                        |
| A2 (LVL 'D')             |                                                 | 1/4" HEAT STREN'D GLASS | 0.090" INTERLAYER TROSIFOL PVB BY 'KURARAY AMERICA, INC.' | 1/4" HEAT STREN'D GLASS | 5/16" AIR SPACE | 3/16" HEAT STREN'D GLASS | SWITCHABLE PRIVACY FILM BY 'PRIVACYVUE' | 3/16" HEAT STREN'D GLASS |

NOTE:  
INTER LITE OF GLASS TYPES 'A1' & 'B1'  
CAN BE 7/16" OVERALL LAMINATED  
SWITCHABLE GLASS BY 'PRIVACYVUE'

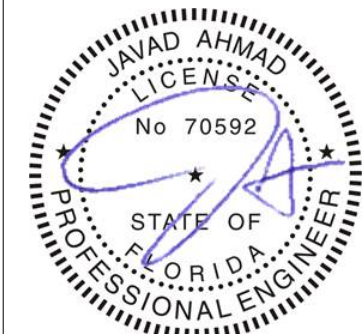


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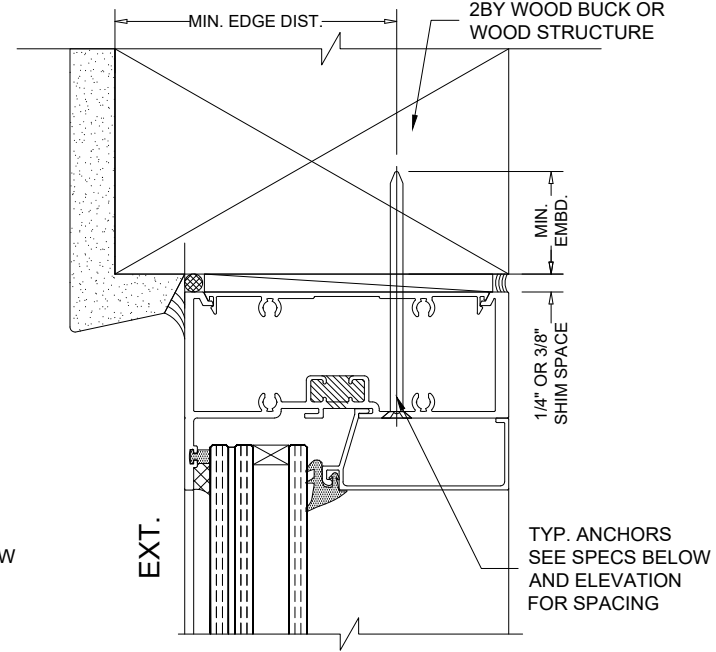
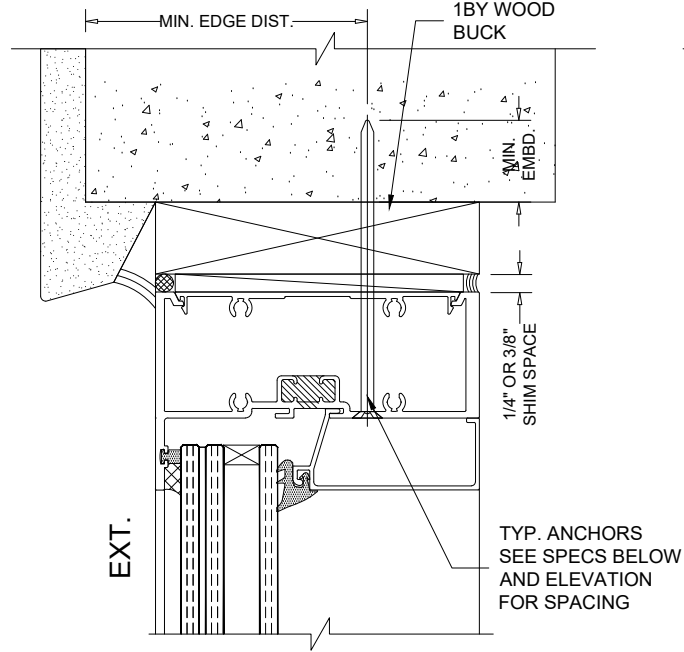
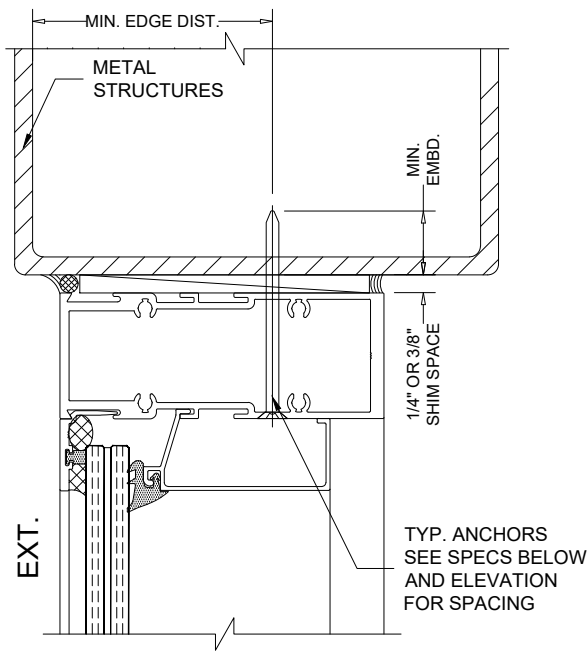
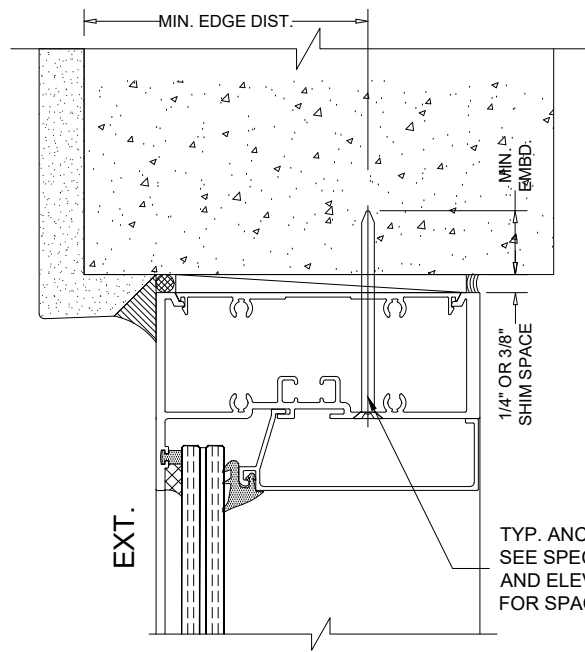
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| PROJECT :                                                                             |      |            |             |
| ENV-450 ALUMINUM<br>WINDOW WALL SYSTEM<br>(L.M.I. & S.M.I)                            |      |            |             |
| CLIENT :                                                                              |      |            |             |
| ENVIRALUM IND. INC.                                                                   |      |            |             |
| 5100 NW 72 AVE.<br>UNIT C MIAMI, FL 33166<br>PHONE: 305.752.4411<br>FAX: 305.406.3877 |      |            |             |
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| Drawing no.                                                                           |      | JA-1144-25 |             |
| Eng: JAVAD AHMAD, PE<br>CIVIL FLA. PE # 70592 – C.A.N. 34254                          |      |            |             |



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| GLASS SPECS | SHEET No.<br>03 OF 15 |
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FL# 19002.1



SUBSTRATE ANCHORS:

**A** **1/4" DIA ULTRACON+ BY 'DEWALT'** (Fu=164 KSI, Fy=148 KSI)  
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES  
1-1/2" MIN. PENETRATION INTO WOOD (HEAD / JAMBS)

THRU 1BY BUCKS INTO CONC. OR MASONRY  
1-3/4" MIN. EMBED INTO CONCRETE (HEAD / JAMBS) 1-3/4"  
MIN. EMBED INTO FILLED BLOCKS (JAMBS)

**AA** **1/4" DIA ULTRACON+ BY 'DEWALT'** (Fu=164 KSI, Fy=148 KSI)  
DIRECTLY INTO MASONRY  
1-3/4" MIN. EMBED INTO FILLED BLOCKS (JAMBS)

**ANCHOR EDGE DISTANCES**  
INTO CONCRETE AND MASONRY = 2-1/2" MIN.  
INTO WOOD STRUCTURE = 1" MIN.

**ANCHOR CL TO CL DISTANCE**  
INTO CONCRETE = 3" MIN.  
INTO FILLED BLOCKS = 4" MIN.

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

**ANCHOR EDGE DISTANCES**  
INTO CONCRETE = 2-1/2" MIN.

**ANCHOR CL TO CL DISTANCE**  
INTO CONCRETE = 3" MIN.  
INTO FILLED BLOCKS = 4" MIN.

**C** **1/4" DIA. TEKS OR SELF DRILLING SCREWS** (GRADE 5 CRS)  
INTO MIAMI-DADE COUNTY APPROVED MULLIONS  
OR  
INTO METAL STRUCTURES  
(3) THREADS MIN. PENETRATION BEYOND METAL  
SUBSTRATE ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)  
STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)  
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

**ANCHOR EDGE DISTANCES**  
INTO METAL STRUCTURE = 1/2" MIN.

**A1** **5/16" DIA ULTRACON+ BY 'DEWALT'** (Fu=177 KSI, Fy=155 KSI)  
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES  
2" MIN. PENETRATION INTO WOOD (HEAD / JAMBS)

THRU 1BY BUCKS INTO CONC. OR MASONRY  
1-3/4" MIN. EMBED INTO CONCRETE (HEAD / JAMBS)  
1-3/4" MIN. EMBED INTO FILLED BLOCKS (JAMBS)

**AA1** **5/16" DIA ULTRACON+ BY 'DEWALT'** (Fu=177 KSI, Fy=155 KSI)  
DIRECTLY INTO MASONRY  
1-3/4" MIN. EMBED INTO FILLED BLOCKS (JAMBS)

**ANCHOR EDGE DISTANCES**  
INTO CONCRETE AND MASONRY = 2-1/2" MIN.  
INTO WOOD STRUCTURE = 1-1/4" MIN.

**ANCHOR CL TO CL DISTANCE**  
INTO CONCRETE = 3" MIN.  
INTO FILLED BLOCKS = 4" MIN.

**B1** **5/16" DIA ULTRACON+ BY 'DEWALT'** (Fu=177 KSI, Fy=155 KSI)  
DIRECTLY INTO CONCRETE  
1-3/4" MIN. EMBED INTO CONCRETE (HEAD / SILL / JAMBS)

**ANCHOR EDGE DISTANCES**  
INTO CONCRETE = 2-1/2" MIN.

**ANCHOR CL TO CL DISTANCE**  
INTO CONCRETE = 3" MIN.  
INTO FILLED BLOCKS = 4" MIN.

**C1** **5/16" DIA. TEKS OR SELF DRILLING SCREWS** (GRADE 5 CRS)  
INTO MIAMI-DADE COUNTY APPROVED MULLIONS  
OR  
INTO METAL STRUCTURES  
(3) THREADS MIN. PENETRATION BEYOND METAL  
SUBSTRATE ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)  
STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)  
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

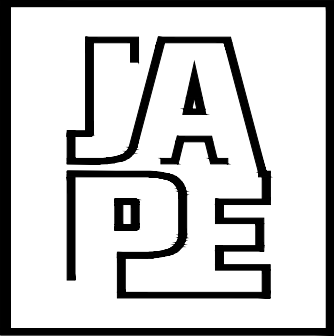
**ANCHOR EDGE DISTANCES**  
INTO METAL STRUCTURE = 3/4" MIN.

SUBSTRATE STRENGTHS:

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

**NOTE:**  
AT HEAD AND SILL FOR ALL 1/4" DIA. ANCHORS, LIMIT  
SHIMS TO 1/4" MAX. THIS SHIMMING LIMITATION ON 1/4"  
DIA. ANCHORS IS NOT APPLICABLE FOR PANELS SHOWN  
ON SHEET 5.1 & 5.2.

SEE WINDOW ELEVATIONS FOR ANCHOR SPACING.



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ENVELOPE • SYSTEM DESIGN • PRODUCT APPROVALS

|                                                                                       |      |            |             |
|---------------------------------------------------------------------------------------|------|------------|-------------|
| PROJECT :                                                                             |      |            |             |
| ENV-450 ALUMINUM WINDOW WALL SYSTEM<br>(L.M.I. & S.M.I)                               |      |            |             |
| CLIENT :                                                                              |      |            |             |
| ENVIRALUM IND. INC.                                                                   |      |            |             |
| 5100 NW 72 AVE.<br>UNIT C MIAMI, FL 33166<br>PHONE: 305.752.4411<br>FAX: 305.406.3877 |      |            |             |
| REVISION                                                                              |      |            |             |
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| check by:                                                                             |      |            |             |
| Drawing no.                                                                           |      | JA-1144-25 |             |
| Eng: JAVAD AHMAD, PE<br>CIVIL FLA. PE # 70592 – C.A.N. 34254                          |      |            |             |
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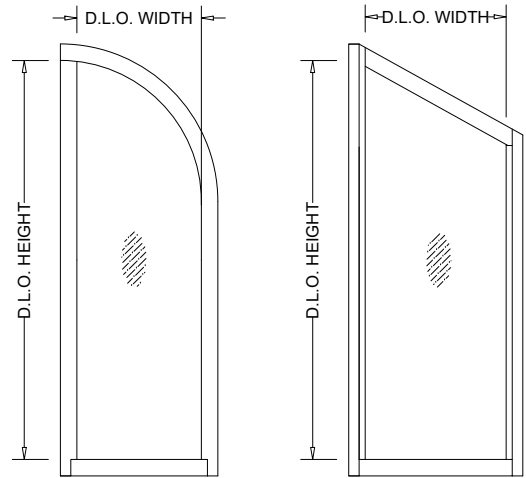
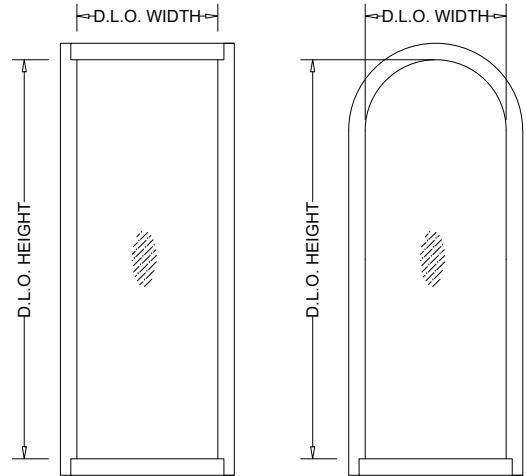
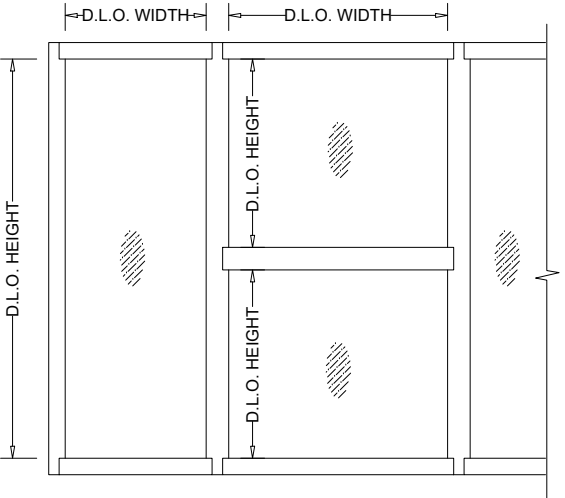
| GLASS LOAD CAPACITY- PSF LEVEL 'D' IMPACT ONLY |               |                  |         |            |         |              |         |
|------------------------------------------------|---------------|------------------|---------|------------|---------|--------------|---------|
| NOMINAL DIMS.                                  |               | L.M.I. OR S.M.I. |         |            |         | S.M.I. ONLY  |         |
|                                                |               | 'A' & 'A1'       |         | 'B' & 'B1' |         | 'AA' & 'AA1' |         |
| D.L.O. WIDTH                                   | D.L.O. HEIGHT | EXT.(+)          | INT.(-) | EXT.(+)    | INT.(-) | EXT.(+)      | INT.(-) |
| 30"                                            | 78"           | 90.0             | 90.0    | 100.0      | 131.0   | 113.0        | 131.0   |
| 36"                                            |               | 90.0             | 90.0    | 100.0      | 131.0   | 113.0        | 131.0   |
| 42"                                            |               | 90.0             | 90.0    | 100.0      | 131.0   | 113.0        | 131.0   |
| 48"                                            |               | 90.0             | 90.0    | 100.0      | 131.0   | 113.0        | 131.0   |
| 54"                                            |               | 90.0             | 90.0    | 100.0      | 131.0   | 113.0        | 131.0   |
| 60"                                            |               | 90.0             | 90.0    | 100.0      | 131.0   | 113.0        | 131.0   |
| 66-1/2"                                        |               | 90.0             | 90.0    | 100.0      | 131.0   | 113.0        | 131.0   |
| 30"                                            | 84"           | 90.0             | 90.0    | 100.0      | 131.0   | 113.0        | 131.0   |
| 36"                                            |               | 90.0             | 90.0    | 100.0      | 131.0   | 113.0        | 131.0   |
| 42"                                            |               | 90.0             | 90.0    | 100.0      | 131.0   | 113.0        | 131.0   |
| 48"                                            |               | 90.0             | 90.0    | 100.0      | 131.0   | 113.0        | 131.0   |
| 54"                                            |               | 90.0             | 90.0    | 100.0      | 131.0   | 113.0        | 131.0   |
| 60"                                            |               | 90.0             | 90.0    | 100.0      | 131.0   | 113.0        | 131.0   |
| 66-1/2"                                        |               | 90.0             | 90.0    | 100.0      | 126.7   | 113.0        | 126.7   |
| 30"                                            | 90"           | 90.0             | 90.0    | 100.0      | 131.0   | 113.0        | 131.0   |
| 36"                                            |               | 90.0             | 90.0    | 100.0      | 131.0   | 113.0        | 131.0   |
| 42"                                            |               | 90.0             | 90.0    | 100.0      | 131.0   | 113.0        | 131.0   |
| 48"                                            |               | 90.0             | 90.0    | 100.0      | 131.0   | 113.0        | 131.0   |
| 54"                                            |               | 90.0             | 90.0    | 100.0      | 131.0   | 113.0        | 131.0   |
| 60"                                            |               | 90.0             | 90.0    | 100.0      | 126.0   | 113.0        | 126.0   |
| 66-1/2"                                        |               | 90.0             | 90.0    | 100.0      | 116.8   | 113.0        | 116.8   |
| 30"                                            | 96"           | 90.0             | 90.0    | 100.0      | 131.0   | 113.0        | 131.0   |
| 36"                                            |               | 90.0             | 90.0    | 100.0      | 131.0   | 113.0        | 131.0   |
| 42"                                            |               | 90.0             | 90.0    | 100.0      | 131.0   | 113.0        | 131.0   |
| 48"                                            |               | 90.0             | 90.0    | 100.0      | 131.0   | 113.0        | 131.0   |
| 54"                                            |               | 90.0             | 90.0    | 100.0      | 126.8   | 113.0        | 126.8   |
| 60"                                            |               | 90.0             | 90.0    | 100.0      | 116.4   | 113.0        | 116.4   |
| 30"                                            | 102"          | 90.0             | 90.0    | 100.0      | 131.0   | 113.0        | 131.0   |
| 36"                                            |               | 90.0             | 90.0    | 100.0      | 131.0   | 113.0        | 131.0   |
| 42"                                            |               | 90.0             | 90.0    | 100.0      | 131.0   | 113.0        | 131.0   |
| 48"                                            |               | 90.0             | 90.0    | 100.0      | 129.4   | 113.0        | 129.4   |
| 54"                                            |               | 90.0             | 90.0    | 100.0      | 118.5   | 113.0        | 118.5   |
| 60"                                            |               | 90.0             | 90.0    | 100.0      | 109.2   | 113.0        | 109.2   |
| 30"                                            | 108"          | 90.0             | 90.0    | 100.0      | 131.0   | 113.0        | 131.0   |
| 36"                                            |               | 90.0             | 90.0    | 100.0      | 131.0   | 113.0        | 131.0   |
| 42"                                            |               | 90.0             | 90.0    | 100.0      | 131.0   | 113.0        | 131.0   |
| 48"                                            |               | 90.0             | 90.0    | 100.0      | 125.6   | 113.0        | 125.6   |
| 54"                                            |               | 90.0             | 90.0    | 100.0      | 111.8   | 113.0        | 111.8   |
| 57"                                            |               | 90.0             | 90.0    | 100.0      | 106.4   | 113.0        | 106.4   |
| 30"                                            | 114"          | 90.0             | 90.0    | 100.0      | 131.0   | 113.0        | 131.0   |
| 36"                                            |               | 90.0             | 90.0    | 100.0      | 131.0   | 113.0        | 131.0   |
| 42"                                            |               | 90.0             | 90.0    | 100.0      | 131.0   | 113.0        | 131.0   |
| 48"                                            |               | 90.0             | 90.0    | 100.0      | 119.5   | 113.0        | 119.5   |
| 54"                                            |               | 90.0             | 90.0    | 100.0      | 105.6   | 113.0        | 105.6   |
| 30"                                            | 120"          | 90.0             | 90.0    | 100.0      | 131.0   | 113.0        | 131.0   |
| 36"                                            |               | 90.0             | 90.0    | 100.0      | 131.0   | 113.0        | 131.0   |
| 42"                                            |               | 90.0             | 90.0    | 100.0      | 131.0   | 113.0        | 131.0   |
| 48"                                            |               | 90.0             | 90.0    | 100.0      | 114.1   | 113.0        | 114.1   |
| 51"                                            |               | 90.0             | 90.0    | 100.0      | 106.6   | 113.0        | 113.0   |

**NOTE:**  
INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.

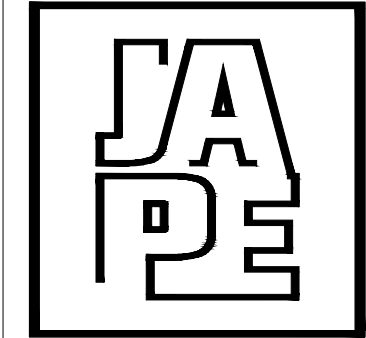
GLASS CAPACITIES ON THIS ARE BASED  
ON ASTM E1300-09 ( 3 SEC. GUEST )

| GLASS LOAD CAPACITY- PSF LEVEL 'D' IMPACT ONLY |              |                  |         |            |         |              |         |
|------------------------------------------------|--------------|------------------|---------|------------|---------|--------------|---------|
| NOMINAL DIMS.                                  |              | L.M.I. OR S.M.I. |         |            |         | S.M.I. ONLY  |         |
|                                                |              | 'A' & 'A1'       |         | 'B' & 'B1' |         | 'AA' & 'AA1' |         |
| D.L.O.WIDTH                                    | D.L.O.HEIGHT | EXT.(+)          | INT.(-) | EXT.(+)    | INT.(-) | EXT.(+)      | INT.(-) |
| 30"                                            | 126"         | 90.0             | 90.0    | 100.0      | 131.0   | 113.0        | 131.0   |
| 36"                                            |              | 90.0             | 90.0    | 100.0      | 131.0   | 113.0        | 131.0   |
| 42"                                            |              | 90.0             | 90.0    | 100.0      | 129.7   | 113.0        | 129.7   |
| 48"                                            |              | 90.0             | 90.0    | 100.0      | 109.7   | 113.0        | 109.7   |
| 49"                                            |              | 90.0             | 90.0    | 100.0      | 107.1   | 113.0        | 107.1   |
| 30"                                            | 132"         | 90.0             | 90.0    | 100.0      | 131.0   | 113.0        | 131.0   |
| 36"                                            |              | 90.0             | 90.0    | 100.0      | 131.0   | 113.0        | 131.0   |
| 42"                                            |              | 90.0             | 90.0    | 100.0      | 128.5   | 113.0        | 128.5   |
| 47"                                            | 138"         | 90.0             | 90.0    | 100.0      | 108.9   | 113.0        | 108.9   |
| 30"                                            |              | 90.0             | 90.0    | 100.0      | 131.0   | 113.0        | 131.0   |
| 36"                                            |              | 90.0             | 90.0    | 100.0      | 131.0   | 113.0        | 131.0   |
| 42"                                            |              | 90.0             | 90.0    | 100.0      | 127.2   | 113.0        | 127.2   |
| 45"                                            | 144"         | 90.0             | 90.0    | 100.0      | 112.5   | 113.0        | 112.5   |
| 30"                                            |              | 90.0             | 90.0    | 100.0      | 131.0   | 113.0        | 131.0   |
| 36"                                            |              | 90.0             | 90.0    | 100.0      | 131.0   | 113.0        | 131.0   |
| 42"                                            |              | 90.0             | 90.0    | 100.0      | 126.1   | 113.0        | 126.1   |
| 43"                                            |              | 90.0             | 90.0    | 100.0      | 120.8   | 113.0        | 120.8   |

| GLASS CAPACITY - PSF LEVEL 'E' IMPACT |               |                  |         |
|---------------------------------------|---------------|------------------|---------|
| NOMINAL DIMS                          |               | L.M.I. OR S.M.I. |         |
|                                       |               | 'C' & 'C1'       |         |
| D.L.O. WIDTH                          | D.L.O. HEIGHT | EXT.(+)          | INT.(-) |
| 30"                                   | 78"           | 100.0            | 100.0   |
| 36"                                   |               | 100.0            | 100.0   |
| 42"                                   |               | 100.0            | 100.0   |
| 48"                                   |               | 100.0            | 100.0   |
| 54"                                   |               | 100.0            | 100.0   |
| 60"                                   |               | 100.0            | 100.0   |
| 66-1/2"                               |               | 100.0            | 100.0   |
| 30"                                   | 84"           | 100.0            | 100.0   |
| 36"                                   |               | 100.0            | 100.0   |
| 42"                                   |               | 100.0            | 100.0   |
| 48"                                   |               | 100.0            | 100.0   |
| 54"                                   |               | 100.0            | 100.0   |
| 60"                                   |               | 100.0            | 100.0   |
| 66-1/2"                               |               | 100.0            | 100.0   |
| 30"                                   | 90"           | 100.0            | 100.0   |
| 36"                                   |               | 100.0            | 100.0   |
| 42"                                   |               | 100.0            | 100.0   |
| 48"                                   |               | 100.0            | 100.0   |
| 54"                                   |               | 100.0            | 100.0   |
| 60"                                   |               | 100.0            | 100.0   |
| 66-1/2"                               |               | 100.0            | 100.0   |
| 30"                                   | 96"           | 100.0            | 100.0   |
| 36"                                   |               | 100.0            | 100.0   |
| 42"                                   |               | 100.0            | 100.0   |
| 48"                                   |               | 100.0            | 100.0   |
| 54"                                   |               | 100.0            | 100.0   |
| 60"                                   |               | 100.0            | 100.0   |
| 66-1/2"                               |               | 100.0            | 100.0   |



APPROVED CONFIGURATIONS



JAVAD AHMAD PE, inc

7320 NW 58th St, Miami, FL 33166  
Ph: (305) 424-8001  
support@ja-pe.com

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

| PROJECT :                                                                                                        |      |            |             |
|------------------------------------------------------------------------------------------------------------------|------|------------|-------------|
| ENV-450 ALUMINUM WINDOW WALL SYSTEM (L.M.I. & S.M.I)                                                             |      |            |             |
| CLIENT :                                                                                                         |      |            |             |
| ENVIRALUM IND. INC.<br><br>5100 NW 72 AVE.<br>UNIT C MIAMI, FL 33166<br>PHONE: 305.752.4411<br>FAX: 305.406.3877 |      |            |             |
| REVISION                                                                                                         |      |            |             |
| No.                                                                                                              | DATE | BY         | DESCRIPTION |
| 0                                                                                                                |      |            |             |
|                                                                                                                  |      |            |             |
|                                                                                                                  |      |            |             |
|                                                                                                                  |      |            |             |
| date:                                                                                                            |      | 2/12/2026  |             |
| scale:                                                                                                           |      | N/A        |             |
| drawn by:                                                                                                        |      | M.S.       |             |
| check by:                                                                                                        |      |            |             |
| Drawing no.                                                                                                      |      | JA-1144-25 |             |

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

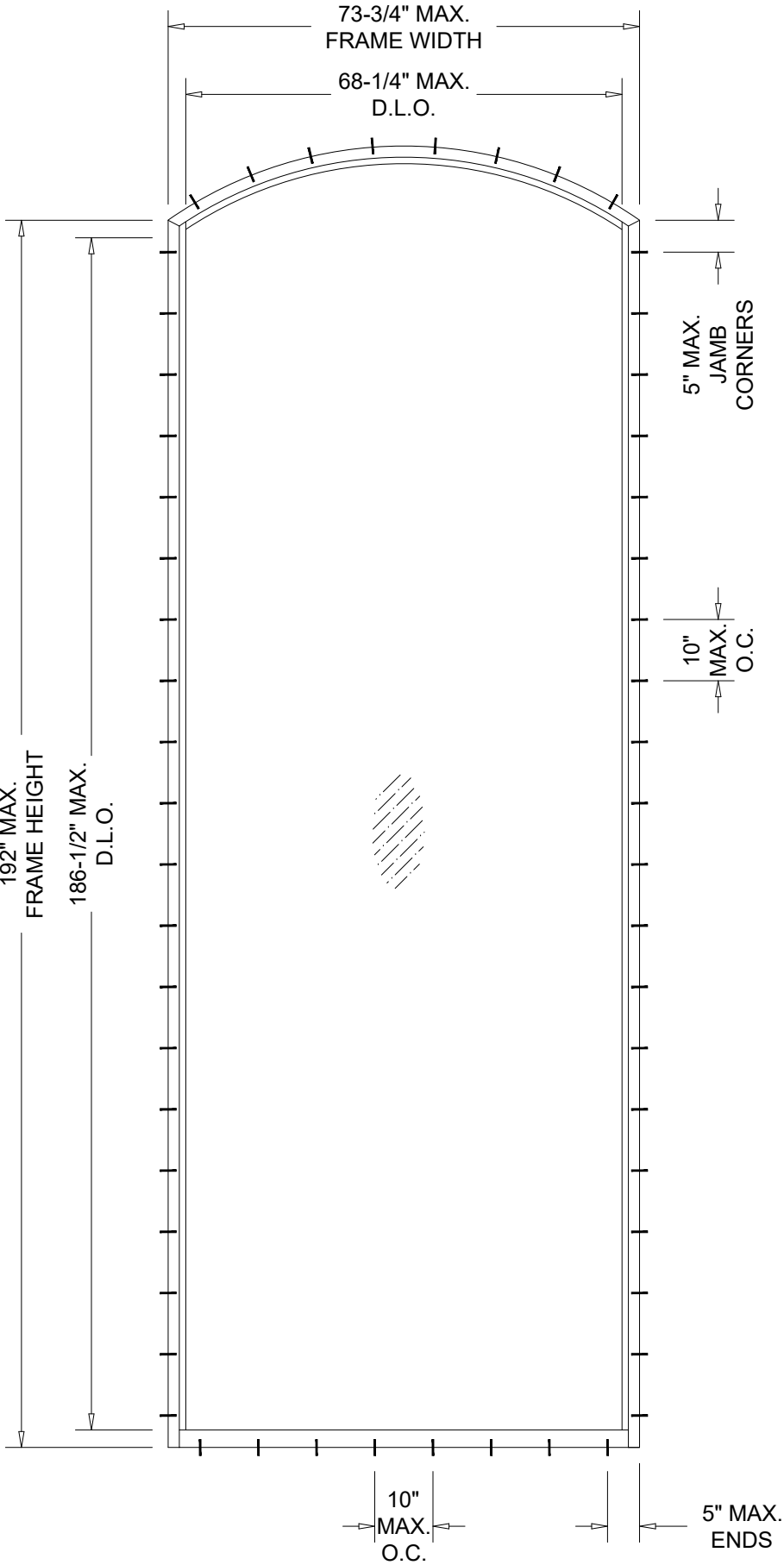
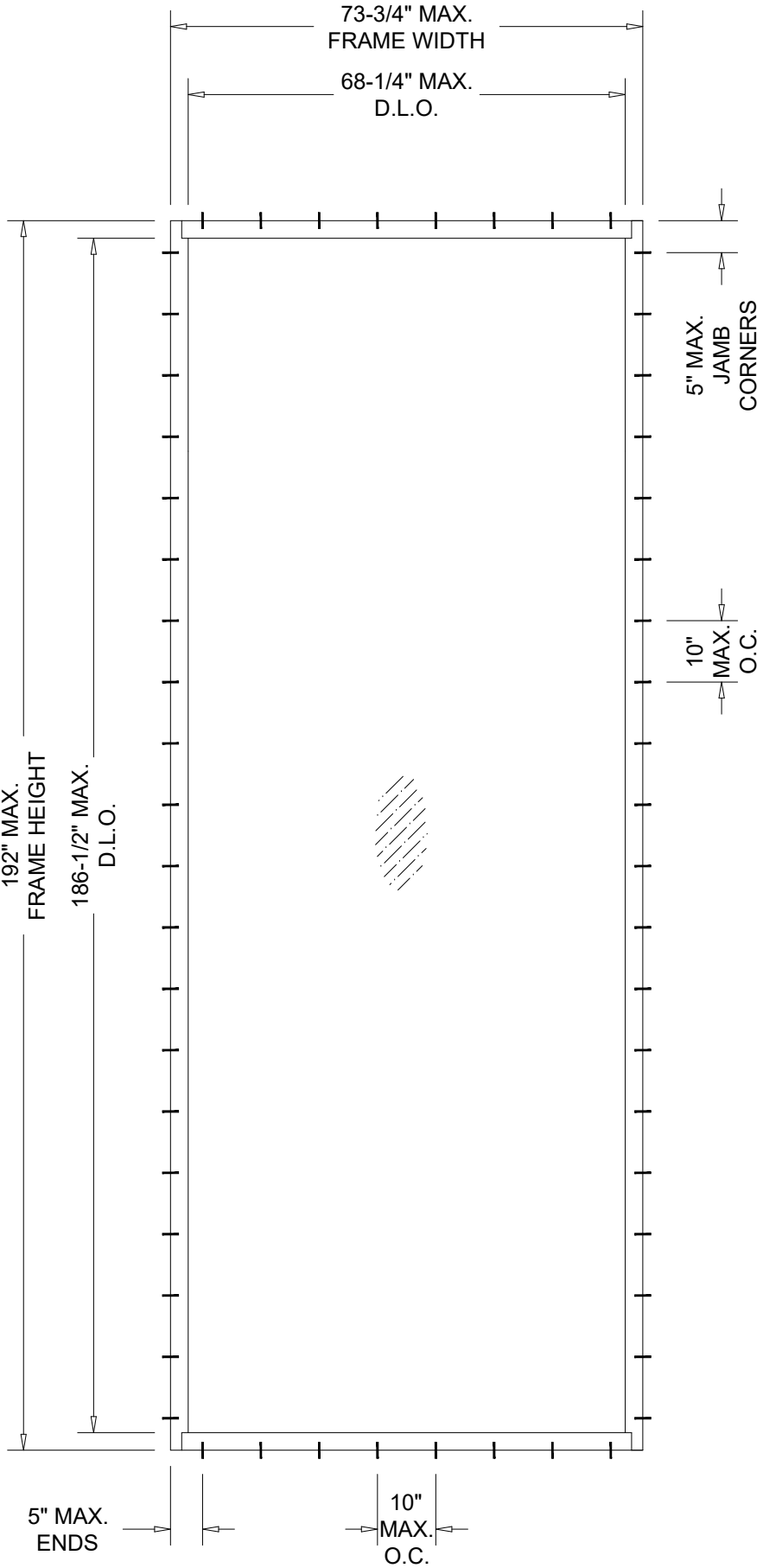


SEALED: 02/27/2026

|             |                       |
|-------------|-----------------------|
| GLASS TABLE | SHEET No.<br>05 OF 15 |
|-------------|-----------------------|

FL# 19002.1

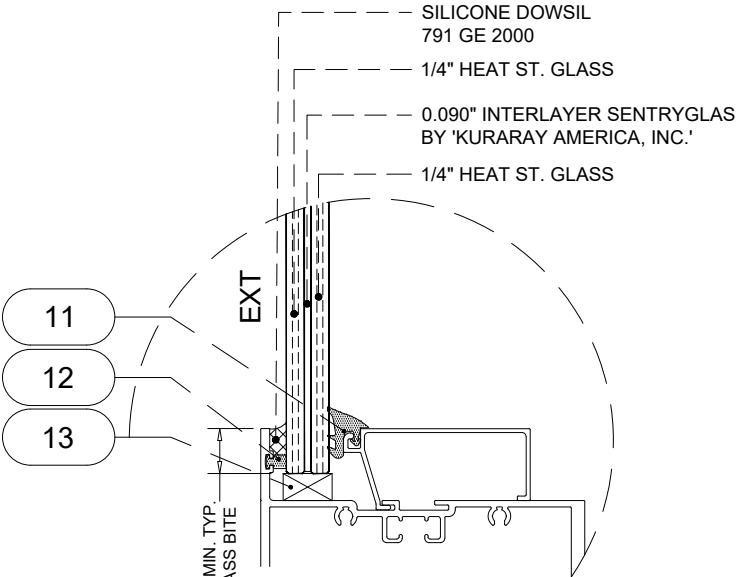
SINGLE O-PANEL APPROVED CONFIGURATIONS:  
(LARGE MISSIGLE IMPACT)



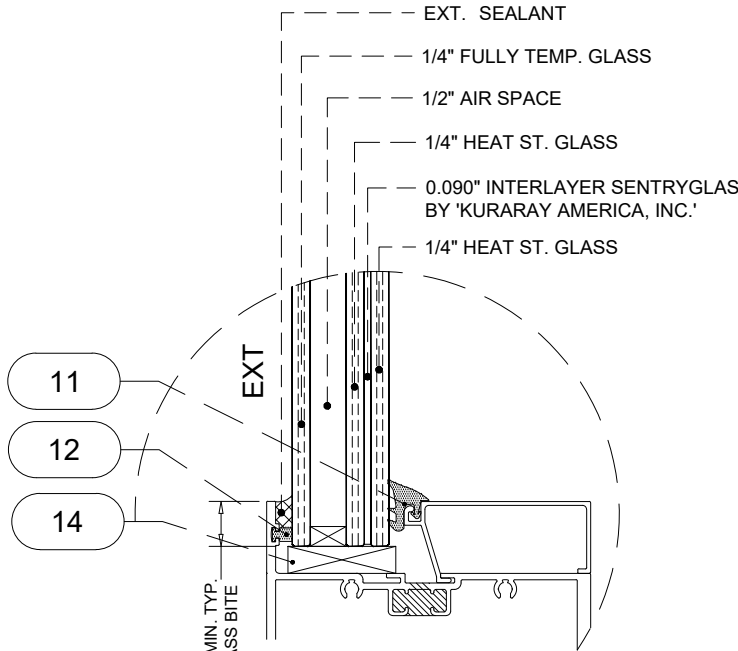
NOTE:  
INTERPOLATION BETWEEN  
WIDTHS OR HEIGHTS ALLOWED.

WITH GLASS TYPE 'B' & 'B1' ONLY:  
MAX. DESIGN LOADS = +/- 90.0 PSF

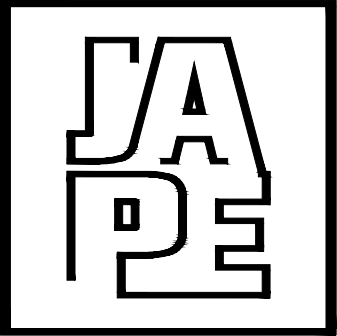
1/2" AIR SPACE CONSIST OF:  
SPACER:  
ALUMINUM BOX SPACER AROUND  
THE PERIMETER OF THE GLASS.  
PERIMETER SEALANT:  
SILICON DOWSIL 791  
GE 2000



GLASS TYPE 'B'



GLASS TYPE 'B1'



JAVAD AHMAD PE, inc

7320 NW 58th St, Miami, FL 33166  
Ph: (305) 424-8001  
support@ja-pe.com

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ENVELOPE • SYSTEM DESIGN • PRODUCT APPROVALS

PROJECT :

ENV-450 ALUMINUM  
WINDOW WALL SYSTEM  
(L.M.I. & S.M.I)

CLIENT :

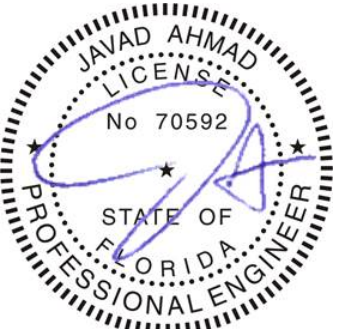
ENVIRALUM IND. INC.

5100 NW 72 AVE.  
UNIT C MIAMI, FL 33166  
PHONE: 305.752.4411  
FAX: 305.406.3877

REVISION

| No.         | DATE | BY         | DESCRIPTION |
|-------------|------|------------|-------------|
| 0           |      |            |             |
|             |      |            |             |
|             |      |            |             |
|             |      |            |             |
| date:       |      | 2/12/2026  |             |
| scale:      |      | N/A        |             |
| drawn by:   |      | M.S.       |             |
| check by:   |      |            |             |
| Drawing no. |      | JA-1144-25 |             |

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

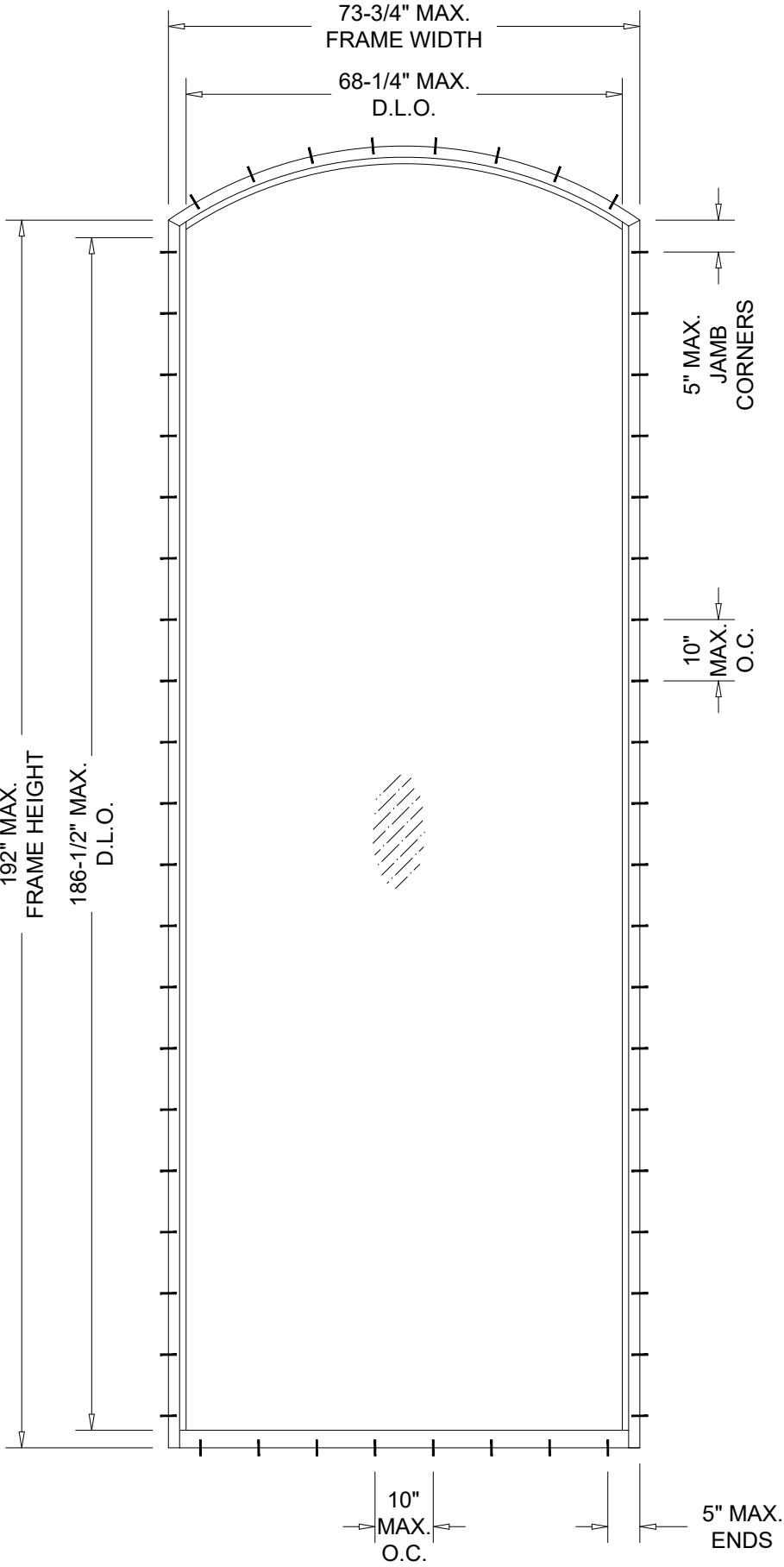
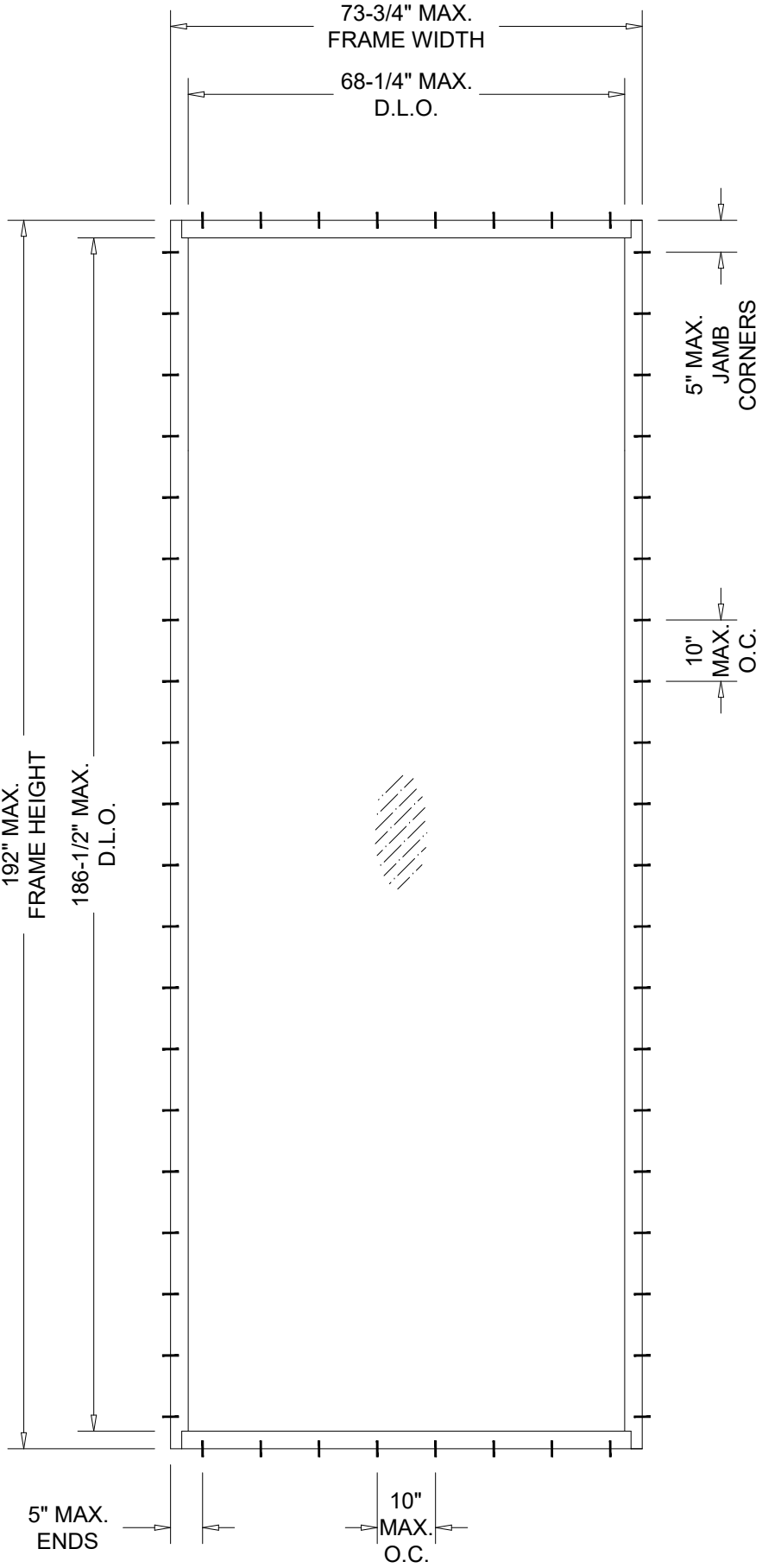


SEALED: 02/27/2026

|             |                        |
|-------------|------------------------|
| BIG O PANEL | SHEET No.<br>5.1 OF 15 |
|-------------|------------------------|

FL# 19002.1

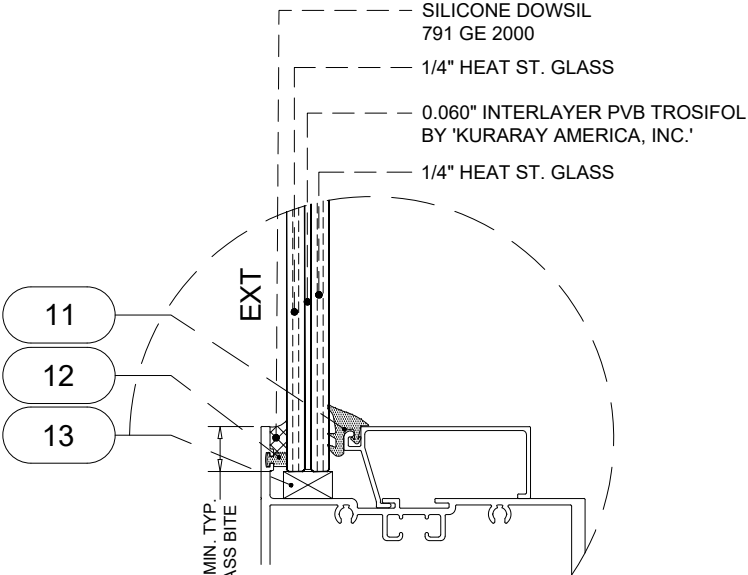
SINGLE O-PANEL APPROVED CONFIGURATIONS:  
(SMALL MISSILE IMPACT)



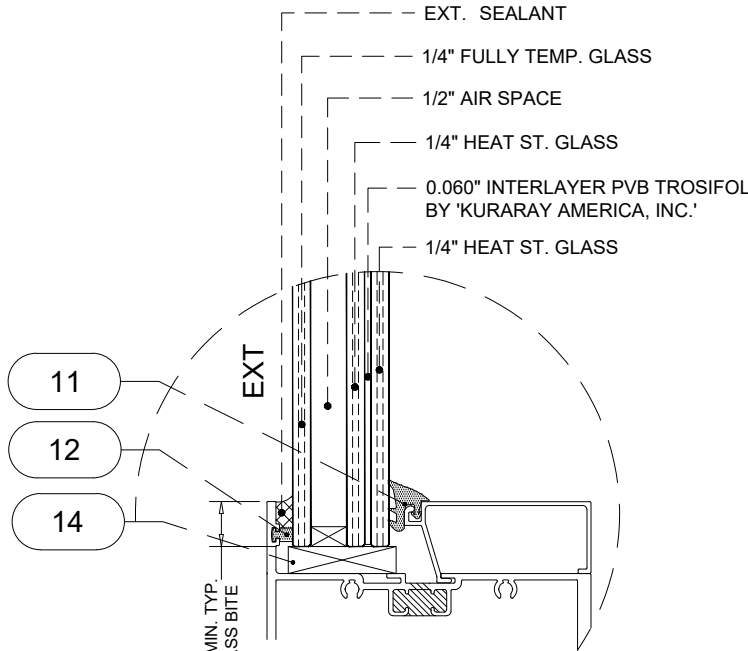
NOTE:  
INTERPOLATION BETWEEN  
WIDTHS OR HEIGHTS ALLOWED.

WITH GLASS TYPE 'AA' & 'AA1' ONLY:  
MAX. DESIGN LOADS = +/- 113.0 PSF

1/2" AIR SPACE CONSIST OF:  
**SPACER:**  
ALUMINUM BOX SPACER AROUND  
THE PERIMETER OF THE GLASS.  
**PERIMETER SEALANT:**  
SILICON DOWSIL 791  
GE 2000

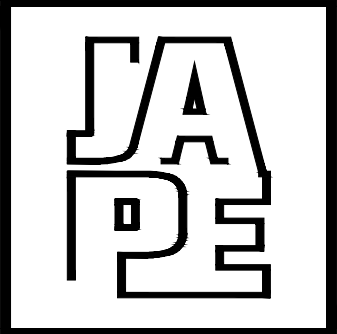


GLASS TYPE 'AA'



GLASS TYPE 'AA1'

FL# 19002.1



JAVAD AHMAD PE, inc

7320 NW 58th St, Miami, FL 33166  
Ph: (305) 424-8001  
support@ja-pe.com

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ENVELOPE • SYSTEM DESIGN • PRODUCT APPROVALS

PROJECT :

ENV-450 ALUMINUM  
WINDOW WALL SYSTEM  
(L.M.I. & S.M.I)

CLIENT :

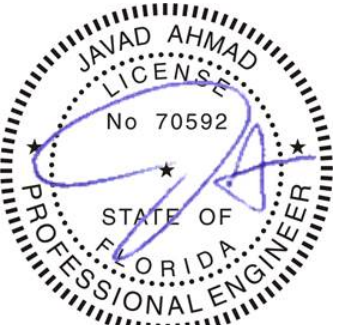
ENVIRALUM IND. INC.

5100 NW 72 AVE.  
UNIT C MIAMI, FL 33166  
PHONE: 305.752.4411  
FAX: 305.406.3877

REVISION

| No.         | DATE | BY         | DESCRIPTION |
|-------------|------|------------|-------------|
| 0           |      |            |             |
|             |      |            |             |
|             |      |            |             |
|             |      |            |             |
| date:       |      | 2/12/2026  |             |
| scale:      |      | N/A        |             |
| drawn by:   |      | M.S.       |             |
| check by:   |      |            |             |
| Drawing no. |      | JA-1144-25 |             |

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



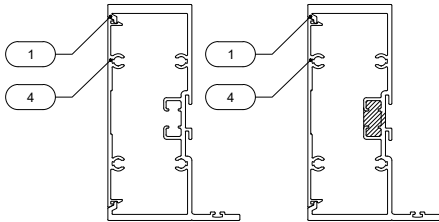
SEALED: 02/27/2026

|             |                       |
|-------------|-----------------------|
| BIG O PANEL | SHEET No.<br>5.2OF 15 |
|-------------|-----------------------|

| UNSECURED JAMB/MULLION DESIGN LOAD CAPACITY - PSF |              |              |         |              |         |           |         |           |         |
|---------------------------------------------------|--------------|--------------|---------|--------------|---------|-----------|---------|-----------|---------|
| NOMINAL DIMS.                                     |              | JAMB 'J1'    |         | JAMB 'J2'    |         | JAMB 'J3' |         | JAMB 'J4' |         |
|                                                   |              | MULLION 'M1' |         | MULLION 'M2' |         | MULL 'M3' |         | MULL 'M4' |         |
| WIDTH (W)                                         | FRAME HEIGHT | EXT.(+)      | INT.(-) | EXT.(+)      | INT.(-) | EXT.(+)   | INT.(-) | EXT.(+)   | INT.(-) |
| 30"                                               | 72"          | 100.0        | 100.0   | 100.0        | 100.0   | 100.0     | 100.0   | 100.0     | 131.0   |
| 36"                                               |              | 100.0        | 100.0   | 100.0        | 100.0   | 100.0     | 100.0   | 100.0     | 131.0   |
| 42"                                               |              | 100.0        | 100.0   | 100.0        | 100.0   | 100.0     | 100.0   | 100.0     | 131.0   |
| 48"                                               |              | 100.0        | 100.0   | 100.0        | 100.0   | 100.0     | 100.0   | 100.0     | 131.0   |
| 54"                                               |              | 100.0        | 100.0   | 100.0        | 100.0   | 100.0     | 100.0   | 100.0     | 131.0   |
| 60"                                               |              | 100.0        | 100.0   | 100.0        | 100.0   | 100.0     | 100.0   | 100.0     | 131.0   |
| 66"                                               |              | -            | -       | 100.0        | 100.0   | 100.0     | 100.0   | 100.0     | 131.0   |
| 72"                                               | 78"          | -            | -       | 100.0        | 100.0   | 100.0     | 100.0   | 100.0     | 131.0   |
| 30"                                               |              | 100.0        | 100.0   | 100.0        | 100.0   | 100.0     | 100.0   | 100.0     | 131.0   |
| 36"                                               |              | 100.0        | 100.0   | 100.0        | 100.0   | 100.0     | 100.0   | 100.0     | 131.0   |
| 42"                                               |              | 100.0        | 100.0   | 100.0        | 100.0   | 100.0     | 100.0   | 100.0     | 131.0   |
| 48"                                               |              | 100.0        | 100.0   | 100.0        | 100.0   | 100.0     | 100.0   | 100.0     | 131.0   |
| 54"                                               |              | 95.3         | 95.3    | 100.0        | 100.0   | 100.0     | 100.0   | 100.0     | 131.0   |
| 60"                                               |              | -            | -       | 100.0        | 100.0   | 100.0     | 100.0   | 100.0     | 131.0   |
| 30"                                               | 84"          | 100.0        | 100.0   | 100.0        | 100.0   | 100.0     | 100.0   | 100.0     | 131.0   |
| 36"                                               |              | 100.0        | 100.0   | 100.0        | 100.0   | 100.0     | 100.0   | 100.0     | 131.0   |
| 42"                                               |              | 100.0        | 100.0   | 100.0        | 100.0   | 100.0     | 100.0   | 100.0     | 131.0   |
| 48"                                               |              | 91.8         | 91.8    | 100.0        | 100.0   | 100.0     | 100.0   | 100.0     | 131.0   |
| 54"                                               |              | 81.6         | 81.6    | 100.0        | 100.0   | 100.0     | 100.0   | 100.0     | 131.0   |
| 60"                                               |              | -            | -       | 100.0        | 100.0   | 100.0     | 100.0   | 100.0     | 100.0   |
| 30"                                               | 90"          | 100.0        | 100.0   | 100.0        | 100.0   | 100.0     | 100.0   | 100.0     | 131.0   |
| 36"                                               |              | 100.0        | 100.0   | 100.0        | 100.0   | 100.0     | 100.0   | 100.0     | 131.0   |
| 42"                                               |              | 90.8         | 90.8    | 100.0        | 100.0   | 100.0     | 100.0   | 100.0     | 131.0   |
| 48"                                               |              | 79.4         | 79.4    | 100.0        | 100.0   | 100.0     | 100.0   | 100.0     | 131.0   |
| 54"                                               |              | -            | -       | 100.0        | 100.0   | 100.0     | 100.0   | 100.0     | 131.0   |
| 60"                                               |              | -            | -       | -            | -       | 100.0     | 100.0   | 100.0     | 131.0   |
| 30"                                               | 96"          | 100.0        | 100.0   | 100.0        | 100.0   | 100.0     | 100.0   | 100.0     | 131.0   |
| 36"                                               |              | 92.5         | 92.5    | 100.0        | 100.0   | 100.0     | 100.0   | 100.0     | 131.0   |
| 42"                                               |              | 79.3         | 79.3    | 100.0        | 100.0   | 100.0     | 100.0   | 100.0     | 131.0   |
| 48"                                               |              | 69.3         | 69.3    | 100.0        | 100.0   | 100.0     | 100.0   | 100.0     | 131.0   |
| 54"                                               |              | -            | -       | 75.6         | 75.6    | 80.0      | 80.0    | 88.9      | 97.8    |
| 60"                                               |              | -            | -       | -            | -       | 72.0      | 72.0    | 80.0      | 88.0    |
| 30"                                               | 97-3/4"      | 100.0        | 100.0   | 100.0        | 100.0   | 100.0     | 100.0   | 100.0     | 131.0   |
| 36"                                               |              | 89.0         | 89.0    | 100.0        | 100.0   | 100.0     | 100.0   | 100.0     | 131.0   |
| 42"                                               |              | 76.3         | 76.3    | 100.0        | 100.0   | 100.0     | 100.0   | 100.0     | 131.0   |
| 48"                                               |              | 66.8         | 66.8    | 98.1         | 98.1    | 100.0     | 100.0   | 100.0     | 131.0   |
| 54"                                               |              | -            | -       | 75.6         | 75.6    | 80.0      | 80.0    | 88.9      | 97.8    |
| 30"                                               | 102"         | -            | -       | 85.0         | 85.0    | 90.0      | 90.0    | 100.0     | 131.0   |
| 36"                                               |              | -            | -       | 85.0         | 85.0    | 90.0      | 90.0    | 100.0     | 131.0   |
| 42"                                               |              | -            | -       | 85.0         | 85.0    | 90.0      | 90.0    | 100.0     | 131.0   |
| 48"                                               |              | -            | -       | 85.0         | 85.0    | 90.0      | 90.0    | 100.0     | 127.8   |
| 54"                                               |              | -            | -       | -            | -       | 80.0      | 80.0    | 88.9      | 97.8    |
| 30"                                               | 108"         | -            | -       | 85.0         | 85.0    | 90.0      | 90.0    | 100.0     | 131.0   |
| 36"                                               |              | -            | -       | 85.0         | 85.0    | 90.0      | 90.0    | 100.0     | 131.0   |
| 42"                                               |              | -            | -       | 85.0         | 85.0    | 90.0      | 90.0    | 100.0     | 130.3   |
| 48"                                               |              | -            | -       | 79.3         | 79.3    | 90.0      | 90.0    | 100.0     | 114.0   |
| 54""                                              |              | -            | -       | -            | -       | -         | -       | 57.8      | 57.8    |
| 30"                                               | 114"         | -            | -       | -            | -       | 90.0      | 90.0    | 100.0     | 131.0   |
| 36"                                               |              | -            | -       | -            | -       | 90.0      | 90.0    | 100.0     | 131.0   |
| 42"                                               |              | -            | -       | -            | -       | 90.0      | 90.0    | 100.0     | 116.9   |
| 48"                                               |              | -            | -       | -            | -       | 90.0      | 90.0    | 100.0     | 102.3   |
| 54"                                               |              | -            | -       | -            | -       | -         | -       | 57.8      | 57.8    |
| 30"                                               | 120"         | -            | -       | -            | -       | 90.0      | 90.0    | 100.0     | 131.0   |
| 36"                                               |              | -            | -       | -            | -       | 90.0      | 90.0    | 100.0     | 123.1   |
| 42"                                               |              | -            | -       | -            | -       | 90.0      | 90.0    | 100.0     | 105.5   |
| 48"                                               |              | -            | -       | -            | -       | 83.3      | 83.3    | 92.3      | 92.3    |
| 54"                                               |              | -            | -       | -            | -       | -         | -       | 57.8      | 57.8    |

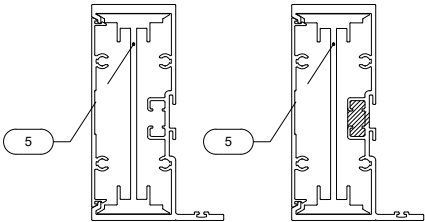
| UNSECURED JAMB/MULLION DESIGN LOAD CAPACITY - PSF |              |           |         |           |         |           |         |           |         |
|---------------------------------------------------|--------------|-----------|---------|-----------|---------|-----------|---------|-----------|---------|
| NOMINAL DIMS.                                     |              | JAMB 'J1' |         | JAMB 'J2' |         | JAMB 'J3' |         | JAMB 'J4' |         |
|                                                   |              | MULL 'M1' |         | MULL 'M2' |         | MULL 'M3' |         | MULL 'M4' |         |
| WIDTH (W)                                         | FRAME HEIGHT | INT.(-)   | EXT.(+) | INT.(-)   | EXT.(+) | INT.(-)   | EXT.(+) | EXT.(+)   | INT.(-) |
| 30"                                               | 126"         | -         | -       | -         | -       | -         | -       | 65.0      | 65.0    |
| 36"                                               |              | -         | -       | -         | -       | -         | -       | 65.0      | 65.0    |
| 42"                                               |              | -         | -       | -         | -       | -         | -       | 65.0      | 65.0    |
| 48"                                               |              | -         | -       | -         | -       | -         | -       | 65.0      | 65.0    |
| 54"                                               |              | -         | -       | -         | -       | -         | -       | 57.8      | 57.8    |
| 30"                                               | 132"         | -         | -       | -         | -       | -         | -       | 65.0      | 65.0    |
| 36"                                               |              | -         | -       | -         | -       | -         | -       | 65.0      | 65.0    |
| 42"                                               |              | -         | -       | -         | -       | -         | -       | 65.0      | 65.0    |
| 48"                                               |              | -         | -       | -         | -       | -         | -       | 65.0      | 65.0    |
| 30"                                               | 138"         | -         | -       | -         | -       | -         | -       | 65.0      | 65.0    |
| 36"                                               |              | -         | -       | -         | -       | -         | -       | 65.0      | 65.0    |
| 42"                                               |              | -         | -       | -         | -       | -         | -       | 65.0      | 65.0    |
| 48"                                               |              | -         | -       | -         | -       | -         | -       | 65.0      | 65.0    |
| 30"                                               | 144"         | -         | -       | -         | -       | -         | -       | 65.0      | 65.0    |
| 36"                                               |              | -         | -       | -         | -       | -         | -       | 65.0      | 65.0    |
| 42"                                               |              | -         | -       | -         | -       | -         | -       | 65.0      | 65.0    |
| 48"                                               |              | -         | -       | -         | -       | -         | -       | 64.1      | 64.1    |

UNSECURED JAMBS



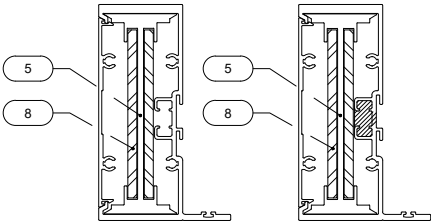
JAMB 'J1'

|         |         |
|---------|---------|
| Ix IN^4 | Sx IN^3 |
| 4.5110  | 1.9537  |



JAMB 'J2'

|         |         |
|---------|---------|
| Ix IN^4 | Sx IN^3 |
| 7.243   | 3.137   |



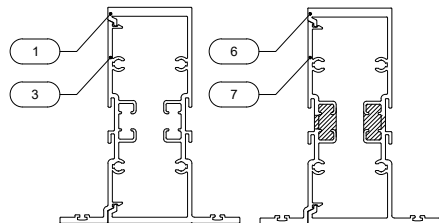
JAMB 'J3'

|                       |         |         |
|-----------------------|---------|---------|
|                       | Ix IN^4 | Sx IN^3 |
| ALUMINUM              | 6.2170  | 2.6925  |
| STEEL                 | 1.336   | .763    |
| TOTAL                 | 10.1755 |         |
| Ix ALUM + Ix STL X2.9 |         |         |

JAMB 'J4'

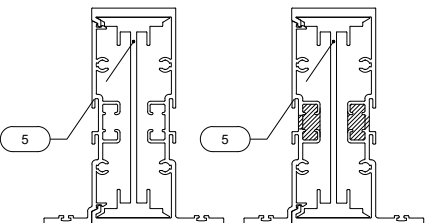
|                       |         |         |
|-----------------------|---------|---------|
|                       | Ix IN^4 | Sx IN^3 |
| ALUMINUM              | 4.5110  | 1.9537  |
| STEEL                 | 3.5210  | 1.706   |
| TOTAL                 | 14.7219 |         |
| Ix ALUM + Ix STL X2.9 |         |         |

MULLIONS



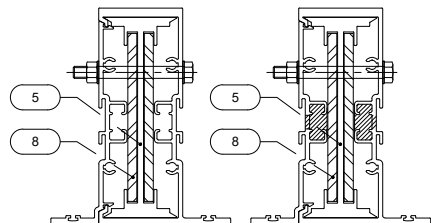
MULLION 'M1'

|         |         |
|---------|---------|
| Ix IN^4 | Sx IN^3 |
| 5.1380  | 2.1170  |



MULLION 'M2'

|         |         |
|---------|---------|
| Ix IN^4 | Sx IN^3 |
| 7.8700  | 3.2427  |

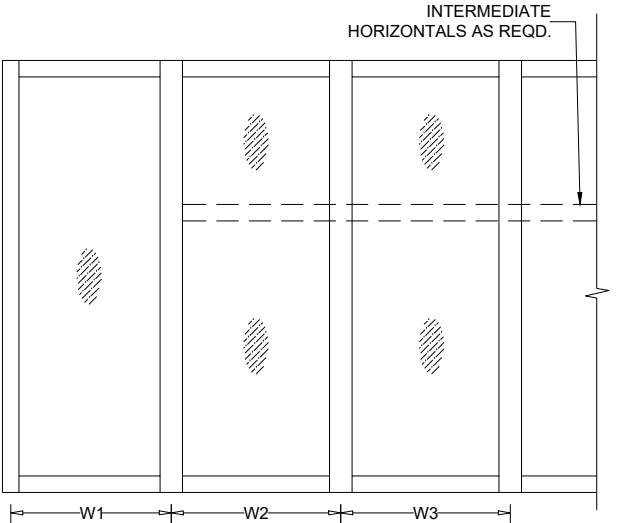


MULLION 'M3'

|                       |         |         |
|-----------------------|---------|---------|
|                       | Ix IN^4 | Sx IN^3 |
| ALUMINUM              | 7.8700  | 3.2427  |
| STEEL                 | 1.336   | .763    |
| TOTAL                 | 11.8285 |         |
| Ix ALUM + Ix STL X2.9 |         |         |

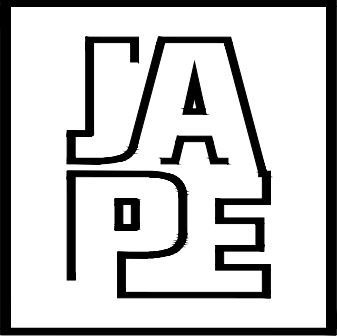
MULLION 'M4'

|                       |         |         |
|-----------------------|---------|---------|
|                       | Ix IN^4 | Sx IN^3 |
| ALUMINUM              | 5.1380  | 2.1170  |
| STEEL                 | 3.5210  | 1.706   |
| TOTAL                 | 15.3489 |         |
| Ix ALUM + Ix STL X2.9 |         |         |



WIDTH (W) = W1  
AT FRAME JAMB

WIDTH (W) =  $\frac{W2 + W3}{2}$   
AT FRAME MULLION



JAVAD AHMAD PE, inc

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support@ja-pe.com

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

PROJECT :

ENV-450 ALUMINUM  
WINDOW WALL SYSTEM  
(L.M.I. & S.M.I.)

CLIENT :

ENVIRALUM IND. INC.

5100 NW 72 AVE.  
UNIT C MIAMI, FL 33166  
PHONE: 305.752.4411  
FAX: 305.406.3877

REVISION

| No. | DATE | BY | DESCRIPTION |
|-----|------|----|-------------|
| 0   |      |    |             |
|     |      |    |             |
|     |      |    |             |

date: 2/12/2026

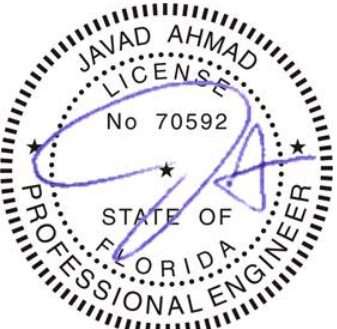
scale: N/A

drawn by: M.S.

check by:

Drawing no. JA-1144-25

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



SEALED: 02/27/2026

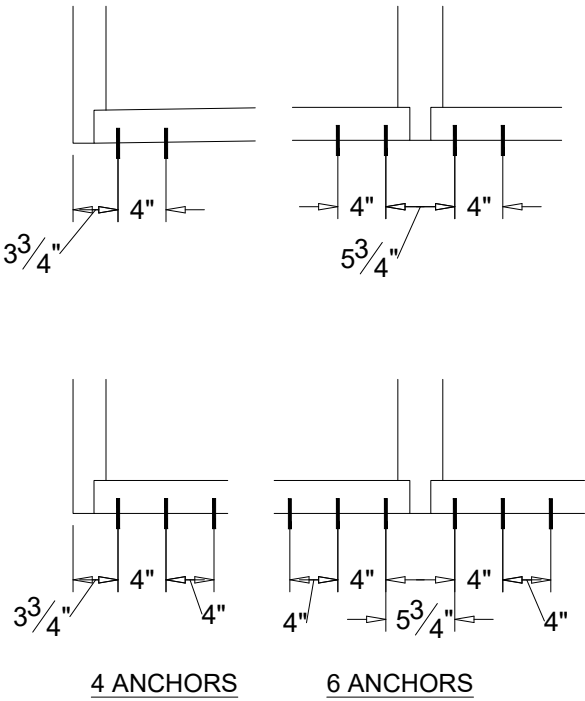
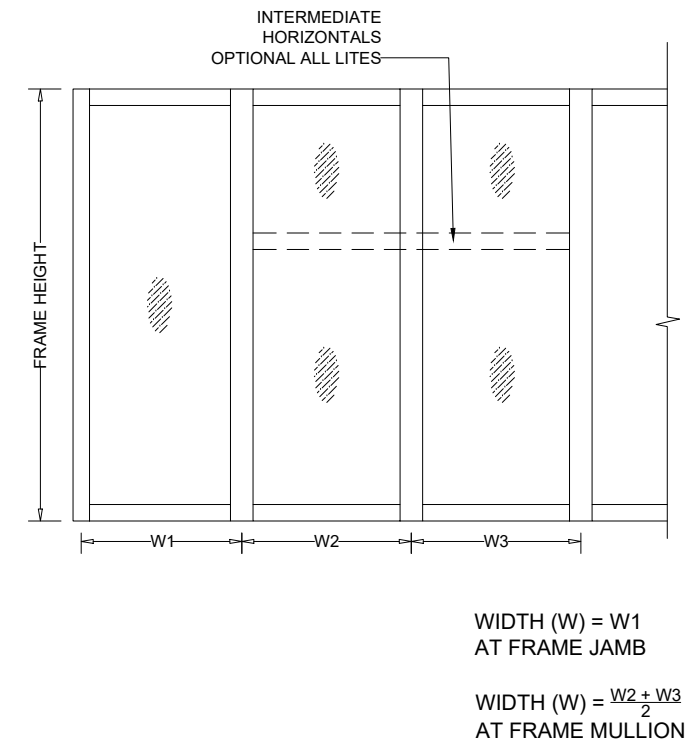
MULL/JAMB TABLES

SHEET No.  
06 OF 15

FL# 19002.1

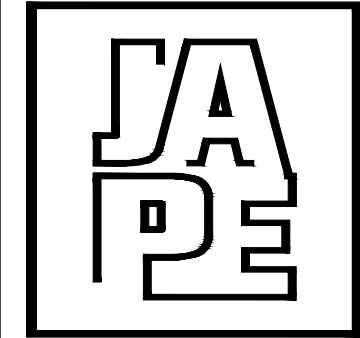
| ANCHOR LOAD CAPACITY-PSF |            |                      |                      |                      |                      |                      |                      |
|--------------------------|------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| ANCHOR TYPE              |            | ANCHOR TYPE 'A'      |                      | ANCHOR TYPE 'B'      |                      | ANCHOR TYPE 'C'      |                      |
| SHIM SPACE               |            | 1/4" MAX. SHIM       |                      | 1/4" MAX. SHIM       |                      | 1/4" Max. SHIM       |                      |
| WIDTH (W)                | LENGTH (L) | 4 ANCHORS            |                      | 6 ANCHORS            |                      | 4 ANCHORS            |                      |
|                          |            | EXT. (+)<br>INT. (-) | EXT. (+)<br>INT. (-) | EXT. (+)<br>INT. (-) | EXT. (+)<br>INT. (-) | EXT. (+)<br>INT. (-) | EXT. (+)<br>INT. (-) |
| 30"                      | 72"        | 131.0                | 131.0                | 131.0                | 131.0                | 131.0                | 131.0                |
| 36"                      |            | 117.3                | 131.0                | 131.0                | 131.0                | 131.0                | 131.0                |
| 42"                      |            | 100.6                | 131.0                | 129.5                | 131.0                | 131.0                | 131.0                |
| 48"                      |            | 88.0                 | 131.0                | 113.3                | 131.0                | 127.7                | 131.0                |
| 54"                      |            | 78.2                 | 117.3                | 100.7                | 131.0                | 113.5                | 131.0                |
| 60"                      |            | 70.4                 | 105.6                | 90.7                 | 131.0                | 102.1                | 131.0                |
| 66"                      |            | 64.0                 | 96.0                 | 82.4                 | 123.6                | 92.8                 | 131.0                |
| 72"                      |            | 58.7                 | 88.0                 | 75.6                 | 113.3                | 85.1                 | 127.7                |
| 30"                      | 78"        | 130.0                | 131.0                | 131.0                | 131.0                | 131.0                | 131.0                |
| 36"                      |            | 108.3                | 131.0                | 131.0                | 131.0                | 131.0                | 131.0                |
| 42"                      |            | 92.8                 | 131.0                | 119.6                | 131.0                | 131.0                | 131.0                |
| 48"                      |            | 81.2                 | 121.8                | 104.6                | 131.0                | 117.8                | 131.0                |
| 54"                      |            | 72.2                 | 108.3                | 93.0                 | 131.0                | 104.8                | 131.0                |
| 60"                      |            | 65.0                 | 97.5                 | 83.7                 | 125.5                | 94.3                 | 131.0                |
| 30"                      | 84"        | 120.7                | 131.0                | 131.0                | 131.0                | 131.0                | 131.0                |
| 36"                      |            | 100.6                | 131.0                | 129.5                | 131.0                | 131.0                | 131.0                |
| 42"                      |            | 86.2                 | 129.3                | 111.0                | 131.0                | 125.1                | 131.0                |
| 48"                      |            | 75.4                 | 113.1                | 97.1                 | 131.0                | 109.4                | 131.0                |
| 54"                      |            | 67.0                 | 100.6                | 86.3                 | 129.5                | 97.3                 | 131.0                |
| 60"                      |            | 60.3                 | 90.5                 | 77.7                 | 116.6                | 87.5                 | 131.0                |
| 30"                      | 90"        | 112.6                | 131.0                | 131.0                | 131.0                | 131.0                | 131.0                |
| 36"                      |            | 93.9                 | 131.0                | 120.9                | 131.0                | 131.0                | 131.0                |
| 42"                      |            | 80.5                 | 120.7                | 103.6                | 131.0                | 116.7                | 131.0                |
| 48"                      |            | 70.4                 | 105.6                | 90.7                 | 131.0                | 102.1                | 131.0                |
| 54"                      |            | 62.6                 | 93.9                 | 80.6                 | 120.9                | 90.8                 | 131.0                |
| 60"                      |            | 56.3                 | 84.5                 | 72.5                 | 108.8                | 81.7                 | 122.6                |
| 30"                      | 96"        | 105.6                | 131.0                | 131.0                | 131.0                | 131.0                | 131.0                |
| 36"                      |            | 88.0                 | 131.0                | 113.3                | 131.0                | 127.7                | 131.0                |
| 42"                      |            | 75.4                 | 113.1                | 97.1                 | 131.0                | 109.4                | 131.0                |
| 48"                      |            | 66.0                 | 99.0                 | 85.0                 | 127.5                | 95.8                 | 131.0                |
| 54"                      |            | 58.7                 | 88.0                 | 75.6                 | 113.3                | 85.1                 | 127.7                |
| 60"                      |            | 52.8                 | 79.2                 | 68.0                 | 102.0                | 76.6                 | 114.9                |
| 30"                      | 97-3/4"    | 103.7                | 131.0                | 131.0                | 131.0                | 131.0                | 131.0                |
| 36"                      |            | 86.4                 | 129.6                | 111.3                | 131.0                | 125.4                | 131.0                |
| 42"                      |            | 74.1                 | 111.1                | 95.4                 | 131.0                | 107.5                | 131.0                |
| 48"                      |            | 64.8                 | 97.2                 | 83.5                 | 125.2                | 94.0                 | 131.0                |
| 54"                      |            | 57.6                 | 86.4                 | 74.2                 | 111.3                | 83.6                 | 125.4                |
| 30"                      | 102"       | 99.4                 | 131.0                | 128.0                | 131.0                | 131.0                | 131.0                |
| 36"                      |            | 82.8                 | 124.2                | 106.7                | 131.0                | 120.2                | 131.0                |
| 42"                      |            | 71.0                 | 106.5                | 91.4                 | 131.0                | 103.0                | 131.0                |
| 48"                      |            | 62.1                 | 93.2                 | 80.0                 | 120.0                | 90.1                 | 131.0                |
| 54"                      |            | 55.2                 | 82.8                 | 71.1                 | 106.7                | 80.1                 | 120.2                |
| 30"                      | 108"       | 93.9                 | 131.0                | 120.9                | 131.0                | 131.0                | 131.0                |
| 36"                      |            | 78.2                 | 117.3                | 100.7                | 131.0                | 113.5                | 131.0                |
| 42"                      |            | 67.0                 | 100.6                | 86.3                 | 129.5                | 97.3                 | 131.0                |
| 48"                      |            | 58.7                 | 88.0                 | 75.6                 | 113.3                | 85.1                 | 127.7                |
| 54"                      |            | 52.1                 | 78.2                 | 67.2                 | 100.7                | 75.7                 | 113.5                |
| 30"                      | 114"       | 88.9                 | 131.0                | 114.5                | 131.0                | 129.0                | 131.0                |
| 36"                      |            | 74.1                 | 111.2                | 95.4                 | 131.0                | 107.5                | 131.0                |
| 42"                      |            | 63.5                 | 95.3                 | 81.8                 | 122.7                | 92.2                 | 131.0                |
| 48"                      |            | 55.6                 | 83.4                 | 71.6                 | 107.4                | 80.6                 | 120.9                |
| 54"                      |            | 49.4                 | 74.1                 | 63.6                 | 95.4                 | 71.7                 | 107.5                |
| 30"                      | 120"       | 84.5                 | 126.7                | 108.8                | 131.0                | 122.6                | 131.0                |
| 36"                      |            | 70.4                 | 105.6                | 90.7                 | 131.0                | 102.1                | 131.0                |
| 42"                      |            | 60.3                 | 90.5                 | 77.7                 | 116.0                | 87.5                 | 131.0                |
| 48"                      |            | 52.8                 | 79.2                 | 68.0                 | 102.0                | 76.6                 | 114.9                |
| 54"                      |            | 46.9                 | 70.4                 | 60.4                 | 90.7                 | 68.1                 | 102.1                |

| ANCHOR LOAD CAPACITY-PSF |            |                      |                      |                      |                      |                      |                      |
|--------------------------|------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| ANCHOR TYPE              |            | ANCHOR TYPE 'A'      |                      | ANCHOR TYPE 'B'      |                      | ANCHOR TYPE 'C'      |                      |
| SHIM SPACE               |            | 1/4" MAX. SHIM       |                      | 1/4" MAX. SHIM       |                      | 1/4" MAX. SHIM       |                      |
| WIDTH (W)                | LENGTH (L) | 4 ANCHORS            |                      | 6 ANCHORS            |                      | 4 ANCHORS            |                      |
|                          |            | EXT. (+)<br>INT. (-) | EXT. (+)<br>INT. (-) | EXT. (+)<br>INT. (-) | EXT. (+)<br>INT. (-) | EXT. (+)<br>INT. (-) | EXT. (+)<br>INT. (-) |
| 30"                      | 126"       | 80.5                 | 120.7                | 103.6                | 131.0                | 116.7                | 131.0                |
| 36"                      |            | 67.0                 | 100.6                | 86.3                 | 129.5                | 97.3                 | 131.0                |
| 42"                      |            | 57.5                 | 86.2                 | 74.0                 | 111.0                | 83.4                 | 125.1                |
| 48"                      |            | 50.3                 | 75.4                 | 64.8                 | 97.1                 | 73.0                 | 109.4                |
| 54"                      |            | 44.7                 | 67.0                 | 57.6                 | 86.3                 | 64.8                 | 97.3                 |
| 30"                      | 132"       | 76.0                 | 115.2                | 98.9                 | 131.0                | 111.4                | 131.0                |
| 36"                      |            | 64.0                 | 96.0                 | 82.4                 | 123.6                | 92.8                 | 131.0                |
| 42"                      |            | 54.9                 | 82.3                 | 70.6                 | 106.0                | 79.6                 | 119.4                |
| 48"                      |            | 48.0                 | 72.0                 | 61.8                 | 92.7                 | 69.6                 | 104.5                |
| 30"                      | 138"       | 73.5                 | 110.2                | 94.6                 | 131.0                | 106.6                | 131.0                |
| 36"                      |            | 61.2                 | 91.8                 | 78.8                 | 118.3                | 88.8                 | 131.0                |
| 42"                      |            | 52.5                 | 78.7                 | 67.6                 | 101.4                | 76.1                 | 114.2                |
| 48"                      |            | 45.9                 | 68.9                 | 59.1                 | 88.7                 | 66.6                 | 99.9                 |
| 30"                      | 144"       | 70.4                 | 105.6                | 90.7                 | 131.0                | 102.1                | 131.0                |
| 36"                      |            | 58.7                 | 88.0                 | 75.6                 | 113.3                | 85.1                 | 127.7                |
| 42"                      |            | 50.3                 | 75.4                 | 64.8                 | 97.1                 | 73.0                 | 109.4                |
| 48"                      |            | 44.0                 | 66.0                 | 56.7                 | 85.0                 | 63.0                 | 95.8                 |



WOOD BUCKS AND METAL STRUCTURE NOT BY ENVIRALUM MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

FL# 19002.1



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support@ja-pe.com

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PROJECT :

ENV-450 ALUMINUM WINDOW WALL SYSTEM (L.M.I. & S.M.I)

CLIENT :

ENVIRALUM IND. INC.

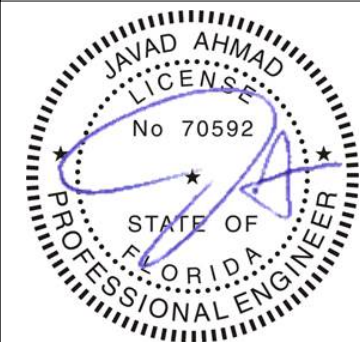
5100 NW 72 AVE.  
UNIT C MIAMI, FL 33166  
PHONE: 305.752.4411  
FAX: 305.406.3877

REVISION

| No. | DATE | BY | DESCRIPTION |
|-----|------|----|-------------|
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|             |            |
|-------------|------------|
| date:       | 2/12/2026  |
| scale:      | N/A        |
| drawn by:   | M.S.       |
| check by:   |            |
| Drawing no. | JA-1144-25 |

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

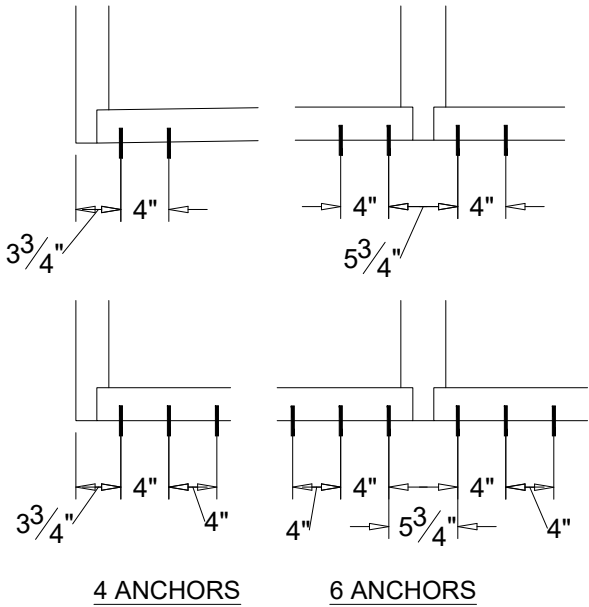
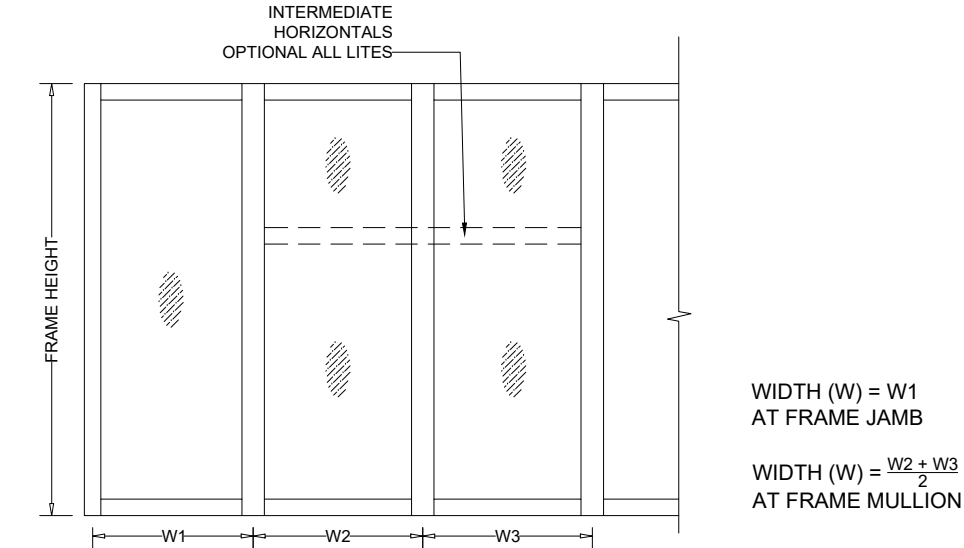


SEALED: 02/27/2026

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| ANCHOR TABLES | SHEET No.<br>07 OF 15 |
|---------------|-----------------------|

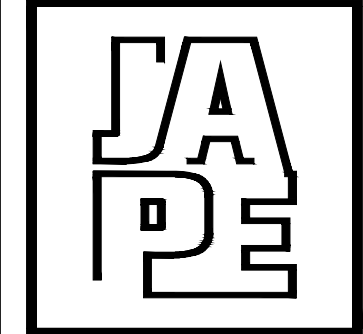
| ANCHOR LOAD CAPACITY - PSF |               |                      |                      |                      |                      |                      |                      |                         |                      |                      |                      |
|----------------------------|---------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-------------------------|----------------------|----------------------|----------------------|
| ANCHOR TYPE                |               | ANCHOR TYPE 'A1'     |                      | ANCHOR TYPE 'B1'     |                      | ANCHOR TYPE 'C1'     |                      | ANCHOR TYPE 'A1' & 'B1' |                      | ANCHOR TYPE 'C1'     |                      |
| SHIM SPACE                 |               | 1/4" MAX. SHIM       |                      | 1/4" MAX. SHIM       |                      | 1/4" MAX. SHIM       |                      | 3/8" MAX. SHIM          |                      | 3/8" MAX. SHIM       |                      |
| WIDTH<br>(W)               | LENGTH<br>(L) | 4 ANCHORS            |                      | 6 ANCHORS            |                      | 4 ANCHORS            |                      | 6 ANCHORS               |                      | 4 ANCHORS            |                      |
|                            |               | EXT. (+)<br>INT. (-) | EXT. (+)<br>INT. (-) | EXT. (+)<br>INT. (-) | EXT. (+)<br>INT. (-) | EXT. (+)<br>INT. (-) | EXT. (+)<br>INT. (-) | EXT. (+)<br>INT. (-)    | EXT. (+)<br>INT. (-) | EXT. (+)<br>INT. (-) | EXT. (+)<br>INT. (-) |
| 30"                        | 72"           | 131.0                | 131.0                | 131.0                | 131.0                | 131.0                | 131.0                | 131.0                   | 131.0                | 131.0                | 131.0                |
| 36"                        |               | 131.0                | 131.0                | 131.0                | 131.0                | 131.0                | 131.0                | 116.0                   | 131.0                | 131.0                | 131.0                |
| 42"                        |               | 131.0                | 131.0                | 131.0                | 131.0                | 131.0                | 131.0                | 99.5                    | 131.0                | 131.0                | 131.0                |
| 48"                        |               | 114.7                | 131.0                | 131.0                | 131.0                | 131.0                | 131.0                | 87.0                    | 130.6                | 123.9                | 131.0                |
| 54"                        |               | 101.9                | 131.0                | 119.1                | 131.0                | 131.0                | 131.0                | 77.4                    | 116.0                | 110.1                | 131.0                |
| 60"                        |               | 91.7                 | 131.0                | 107.2                | 131.0                | 130.7                | 131.0                | 69.6                    | 104.4                | 99.1                 | 131.0                |
| 66"                        |               | 83.4                 | 125.1                | 97.5                 | 131.0                | 118.8                | 131.0                | 63.3                    | 94.9                 | 90.1                 | 131.0                |
| 72"                        |               | 76.4                 | 114.7                | 89.3                 | 131.0                | 108.9                | 131.0                | 58.0                    | 87.0                 | 82.6                 | 123.9                |
| 30"                        | 78"           | 131.0                | 131.0                | 131.0                | 131.0                | 131.0                | 131.0                | 128.5                   | 131.0                | 131.0                | 131.0                |
| 36"                        |               | 131.0                | 131.0                | 131.0                | 131.0                | 131.0                | 131.0                | 107.1                   | 131.0                | 131.0                | 131.0                |
| 42"                        |               | 121.0                | 131.0                | 131.0                | 131.0                | 131.0                | 131.0                | 91.8                    | 131.0                | 130.7                | 131.0                |
| 48"                        |               | 105.8                | 131.0                | 123.7                | 131.0                | 131.0                | 131.0                | 80.3                    | 120.5                | 114.3                | 131.0                |
| 54"                        |               | 94.1                 | 131.0                | 109.9                | 131.0                | 131.0                | 131.0                | 71.4                    | 107.1                | 101.6                | 131.0                |
| 60"                        |               | 84.7                 | 127.0                | 99.0                 | 131.0                | 120.6                | 131.0                | 64.3                    | 96.4                 | 91.5                 | 131.0                |
| 30"                        |               | 131.0                | 131.0                | 131.0                | 131.0                | 131.0                | 131.0                | 119.4                   | 131.0                | 131.0                | 131.0                |
| 36"                        | 84"           | 131.0                | 131.0                | 131.0                | 131.0                | 131.0                | 131.0                | 99.5                    | 131.0                | 131.0                | 131.0                |
| 42"                        |               | 112.3                | 131.0                | 131.0                | 131.0                | 131.0                | 131.0                | 85.3                    | 127.9                | 121.3                | 131.0                |
| 48"                        |               | 98.3                 | 131.0                | 114.9                | 131.0                | 131.0                | 131.0                | 74.6                    | 111.9                | 106.2                | 131.0                |
| 54"                        |               | 87.4                 | 131.0                | 102.1                | 131.0                | 124.4                | 131.0                | 66.3                    | 99.5                 | 94.4                 | 131.0                |
| 60"                        |               | 78.6                 | 117.9                | 91.9                 | 131.0                | 112.0                | 131.0                | 59.7                    | 89.5                 | 84.9                 | 127.4                |
| 30"                        |               | 131.0                | 131.0                | 131.0                | 131.0                | 131.0                | 131.0                | 111.4                   | 131.0                | 131.0                | 131.0                |
| 36"                        |               | 122.3                | 131.0                | 131.0                | 131.0                | 131.0                | 131.0                | 92.8                    | 131.0                | 131.0                | 131.0                |
| 42"                        | 90"           | 104.8                | 131.0                | 122.5                | 131.0                | 131.0                | 131.0                | 79.6                    | 119.4                | 113.2                | 131.0                |
| 48"                        |               | 91.7                 | 131.0                | 107.2                | 131.0                | 130.7                | 131.0                | 96.6                    | 104.4                | 99.1                 | 131.0                |
| 54"                        |               | 81.5                 | 122.3                | 95.3                 | 131.0                | 116.1                | 131.0                | 61.9                    | 92.8                 | 88.1                 | 131.0                |
| 60"                        |               | 73.4                 | 110.1                | 85.8                 | 128.6                | 104.5                | 131.0                | 55.7                    | 83.6                 | 79.3                 | 118.9                |
| 30"                        |               | 131.0                | 131.0                | 131.0                | 131.0                | 131.0                | 131.0                | 104.4                   | 131.0                | 131.0                | 131.0                |
| 36"                        |               | 114.7                | 131.0                | 131.0                | 131.0                | 131.0                | 131.0                | 87.0                    | 130.6                | 123.9                | 131.0                |
| 42"                        |               | 98.3                 | 131.0                | 114.9                | 131.0                | 131.0                | 131.0                | 74.6                    | 111.9                | 106.2                | 131.0                |
| 48"                        | 96"           | 86.0                 | 129.0                | 100.5                | 131.0                | 122.5                | 131.0                | 65.3                    | 97.9                 | 92.9                 | 131.0                |
| 54"                        |               | 76.4                 | 114.7                | 89.3                 | 131.0                | 108.9                | 131.0                | 58.0                    | 87.0                 | 82.6                 | 123.9                |
| 60"                        |               | 68.8                 | 103.2                | 80.4                 | 120.6                | 98.0                 | 131.0                | 52.2                    | 78.3                 | 74.3                 | 111.5                |
| 30"                        |               | 131.0                | 131.0                | 131.0                | 131.0                | 131.0                | 131.0                | 102.6                   | 131.0                | 131.0                | 131.0                |
| 36"                        |               | 112.6                | 131.0                | 131.0                | 131.0                | 131.0                | 131.0                | 85.5                    | 128.2                | 121.6                | 131.0                |
| 42"                        |               | 96.5                 | 131.0                | 112.8                | 131.0                | 131.0                | 131.0                | 73.3                    | 109.9                | 104.3                | 131.0                |
| 48"                        |               | 84.5                 | 126.7                | 98.7                 | 131.0                | 120.3                | 131.0                | 64.1                    | 96.2                 | 91.2                 | 131.0                |
| 54"                        | 97-3/4"       | 75.1                 | 112.6                | 87.7                 | 131.0                | 106.9                | 131.0                | 57.0                    | 85.5                 | 81.1                 | 121.6                |
| 30"                        |               | 129.5                | 131.0                | 131.0                | 131.0                | 131.0                | 131.0                | 98.3                    | 131.0                | 131.0                | 131.0                |
| 36"                        |               | 107.9                | 131.0                | 126.1                | 131.0                | 131.0                | 131.0                | 81.9                    | 122.9                | 116.6                | 131.0                |
| 42"                        |               | 92.5                 | 131.0                | 108.1                | 131.0                | 131.0                | 131.0                | 70.2                    | 105.3                | 99.9                 | 131.0                |
| 48"                        |               | 80.9                 | 121.4                | 94.6                 | 131.0                | 115.3                | 131.0                | 61.4                    | 92.2                 | 87.4                 | 131.0                |
| 54"                        |               | 71.9                 | 107.9                | 84.1                 | 126.1                | 102.5                | 131.0                | 54.6                    | 81.9                 | 77.7                 | 116.6                |
| 30"                        |               | 122.3                | 131.0                | 131.0                | 131.0                | 131.0                | 131.0                | 92.8                    | 131.0                | 131.0                | 131.0                |
| 36"                        | 108"          | 101.9                | 131.0                | 119.1                | 131.0                | 131.0                | 131.0                | 77.4                    | 116.0                | 110.1                | 131.0                |
| 42"                        |               | 87.4                 | 131.0                | 102.1                | 131.0                | 124.4                | 131.0                | 66.3                    | 99.5                 | 94.4                 | 131.0                |
| 48"                        |               | 76.4                 | 114.7                | 89.3                 | 131.0                | 108.9                | 131.0                | 58.0                    | 87.0                 | 82.6                 | 123.9                |
| 54"                        |               | 68.0                 | 101.9                | 79.4                 | 119.1                | 96.8                 | 131.0                | 51.6                    | 77.4                 | 73.4                 | 110.1                |
| 30"                        |               | 115.9                | 131.0                | 131.0                | 131.0                | 131.0                | 131.0                | 87.9                    | 131.0                | 125.2                | 131.0                |
| 36"                        |               | 96.6                 | 131.0                | 112.8                | 131.0                | 131.0                | 131.0                | 73.3                    | 109.9                | 104.3                | 131.0                |
| 42"                        |               | 82.8                 | 124.2                | 96.7                 | 131.0                | 117.9                | 131.0                | 62.8                    | 94.2                 | 89.4                 | 131.0                |
| 48"                        | 114"          | 72.4                 | 108.6                | 84.6                 | 126.9                | 103.2                | 131.0                | 55.0                    | 82.5                 | 78.2                 | 117.3                |
| 54"                        |               | 64.4                 | 96.6                 | 75.2                 | 112.8                | 91.7                 | 131.0                | 48.9                    | 73.3                 | 69.5                 | 104.3                |
| 30"                        |               | 110.1                | 131.0                | 128.6                | 131.0                | 131.0                | 131.0                | 83.6                    | 125.3                | 118.9                | 131.0                |
| 36"                        |               | 91.7                 | 131.0                | 107.2                | 131.0                | 130.7                | 131.0                | 69.6                    | 104.4                | 99.1                 | 131.0                |
| 42"                        |               | 78.6                 | 117.9                | 91.9                 | 131.0                | 112.0                | 131.0                | 59.7                    | 89.5                 | 84.9                 | 127.4                |
| 48"                        |               | 68.8                 | 103.2                | 80.4                 | 120.6                | 98.0                 | 131.0                | 52.2                    | 78.3                 | 74.3                 | 111.5                |
| 54"                        |               | 61.2                 | 91.7                 | 71.5                 | 107.2                | 87.1                 | 130.7                | 46.4                    | 69.6                 | 66.1                 | 99.1                 |

| ANCHOR LOAD CAPACITY - PSF |               |                      |                      |                      |                      |                      |                      |                         |                      |                      |                      |
|----------------------------|---------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-------------------------|----------------------|----------------------|----------------------|
| ANCHOR TYPE                |               | ANCHOR TYPE 'A1'     |                      | ANCHOR TYPE 'B1'     |                      | ANCHOR TYPE 'C1'     |                      | ANCHOR TYPE 'A1' & 'B1' |                      | ANCHOR TYPE 'C1'     |                      |
| SHIM SPACE                 |               | 1/4" MAX. SHIM       |                      | 1/4" MAX. SHIM       |                      | 1/4" MAX. SHIM       |                      | 3/8" MAX. SHIM          |                      | 3/8" MAX. SHIM       |                      |
| WIDTH<br>(W)               | LENGTH<br>(L) | 4 ANCHORS            |                      | 6 ANCHORS            |                      | 4 ANCHORS            |                      | 6 ANCHORS               |                      | 4 ANCHORS            |                      |
|                            |               | EXT. (+)<br>INT. (-) | EXT. (+)<br>INT. (-) | EXT. (+)<br>INT. (-) | EXT. (+)<br>INT. (-) | EXT. (+)<br>INT. (-) | EXT. (+)<br>INT. (-) | EXT. (+)<br>INT. (-)    | EXT. (+)<br>INT. (-) | EXT. (+)<br>INT. (-) | EXT. (+)<br>INT. (-) |
| 30"                        | 126"          | 104.8                | 131.0                | 122.5                | 131.0                | 131.0                | 131.0                | 131.0                   | 131.0                | 79.6                 | 119.4                |
| 36"                        |               | 87.4                 | 131.0                | 102.1                | 131.0                | 124.4                | 131.0                | 66.3                    | 99.5                 | 94.4                 | 131.0                |
| 42"                        |               | 74.9                 | 112.3                | 87.5                 | 131.0                | 106.7                | 131.0                | 56.8                    | 85.3                 | 80.9                 | 121.3                |
| 48"                        |               | 65.5                 | 98.3                 | 76.6                 | 114.9                | 93.3                 | 131.0                | 49.7                    | 74.6                 | 70.8                 | 106.2                |
| 54"                        |               | 58.2                 | 87.4                 | 68.1                 | 102.1                | 83.0                 | 124.4                | 44.2                    | 66.3                 | 62.9                 | 94.4                 |
| 30"                        |               | 100.1                | 131.0                | 116.9                | 131.0                | 131.0                | 131.0                | 76.0                    | 113.9                | 108.1                | 131.0                |
| 36"                        |               | 83.4                 | 125.1                | 97.5                 | 131.0                | 118.8                | 131.0                | 63.3                    | 94.9                 | 90.1                 | 131.0                |
| 42"                        | 132"          | 71.5                 | 107.2                | 83.5                 | 125.3                | 101.8                | 131.0                | 54.3                    | 81.4                 | 77.2                 | 115.8                |
| 48"                        |               | 62.5                 | 93.8                 | 73.1                 | 109.6                | 89.1                 | 131.0                | 47.5                    | 71.2                 | 67.6                 | 101.3                |
| 30"                        |               | 95.7                 | 131.0                | 111.9                | 131.0                | 131.0                | 131.0                | 72.7                    | 109.0                | 103.4                | 131.0                |
| 36"                        |               | 79.8                 | 119.7                | 93.2                 | 131.0                | 113.6                | 131.0                | 60.5                    | 90.8                 | 86.5                 | 129.3                |
| 42"                        |               | 68.4                 | 102.6                | 79.9                 | 119.9                | 97.4                 | 131.0                | 51.9                    | 77.8                 | 73.9                 | 110.8                |
| 48"                        |               | 59.8                 | 89.7                 | 69.6                 | 104.9                | 85.2                 | 127.8                | 45.4                    | 68.1                 | 64.6                 | 96.9                 |
| 30"                        |               | 91.7                 | 131.0                | 107.2                | 131.0                | 130.7                | 131.0                | 69.6                    | 104.4                | 99.1                 | 131.0                |
| 36"                        | 144"          | 76.4                 | 114.7                | 89.3                 | 131.0                | 108.9                | 131.0                | 58.0                    | 87.0                 | 82.6                 | 123.9                |
| 42"                        |               | 65.5                 | 98.3                 | 76.6                 | 114.9                | 93.3                 | 131.0                | 49.7                    | 74.6                 | 70.8                 | 106.2                |
| 48"                        |               | 57.3                 | 86.0                 | 67.0                 | 100.5                | 81.7                 | 122.5                | 43.5                    | 65.3                 | 61.9                 | 92.9                 |



WOOD BUCKS AND METAL STRUCTURE NOT BY ENVIRALUM MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

FL# 19002.1



JAVAD AHMAD PE, inc

7320 NW 58th St, Miami, FL 33166  
Ph: (305) 424-8001  
support@ja-pe.com

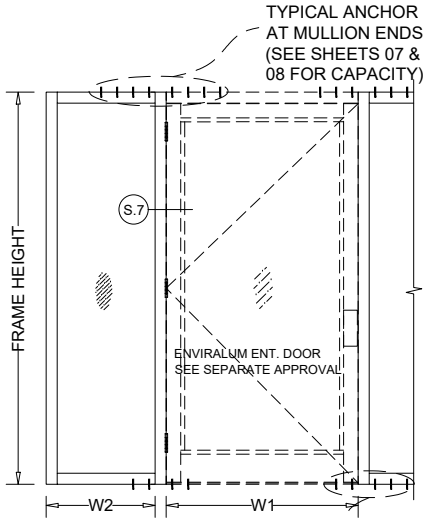
CONSULTING • STRUCTURAL DESIGN • FACADES • BUILDING ENVELOPE • SYSTEM DESIGN • PRODUCT APPROVALS

|                                                                                       |      |            |             |
|---------------------------------------------------------------------------------------|------|------------|-------------|
| PROJECT :                                                                             |      |            |             |
| ENV-450 ALUMINUM<br>WINDOW WALL SYSTEM<br>(L.M.I. & S.M.I)                            |      |            |             |
| CLIENT :                                                                              |      |            |             |
| ENVIRALUM IND. INC.                                                                   |      |            |             |
| 5100 NW 72 AVE.<br>UNIT C MIAMI, FL 33166<br>PHONE: 305.752.4411<br>FAX: 305.406.3877 |      |            |             |
| REVISION                                                                              |      |            |             |
| No.                                                                                   | DATE | BY         | DESCRIPTION |
| 0                                                                                     |      |            |             |
|                                                                                       |      |            |             |
|                                                                                       |      |            |             |
|                                                                                       |      |            |             |
| date:                                                                                 |      | 2/12/2026  |             |
| scale:                                                                                |      | N/A        |             |
| drawn by:                                                                             |      | M.S.       |             |
| check by:                                                                             |      |            |             |
| Drawing no.                                                                           |      | JA-1144-25 |             |
| Eng: JAVAD AHMAD, PE<br>CIVIL FLA. PE # 70592 – C.A.N. 34254                          |      |            |             |

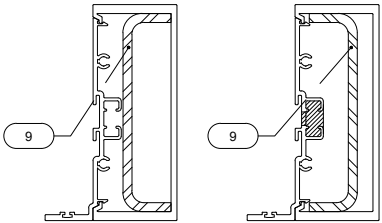


|                    |                    |
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| SEALED: 02/27/2026 |                    |
| ANCHOR TABLES      | SHEET No. 08 OF 15 |

| DOOR MULLION LOAD CAPACITY - PSF |              |           |         |           |         |           |         |           |         |
|----------------------------------|--------------|-----------|---------|-----------|---------|-----------|---------|-----------|---------|
| NOMINAL DIMS.                    |              | MULL'DM1' |         | MULL'DM2' |         | MULL'DM3' |         | MULL'DM4' |         |
| WIDTH (W)                        | FRAME HEIGHT | EXT.(+)   | INT.(-) | EXT.(+)   | INT.(-) | EXT.(+)   | INT.(-) | EXT.(+)   | INT.(-) |
| 40-3/4"                          | 90"          | 100.0     | 100.0   | 100.0     | 100.0   | 100.0     | 100.0   | 100.0     | 100.0   |
| 43-3/4"                          |              | 100.0     | 100.0   | 97.0      | 97.0    | 100.0     | 100.0   | 100.0     | 100.0   |
| 46-3/4"                          |              | 100.0     | 100.0   | 90.8      | 90.8    | 100.0     | 100.0   | 100.0     | 100.0   |
| 49-3/4"                          |              | 100.0     | 100.0   | 85.3      | 85.3    | 100.0     | 100.0   | 100.0     | 100.0   |
| 52-3/4"                          |              | 100.0     | 100.0   | 80.4      | 80.4    | 100.0     | 100.0   | 100.0     | 100.0   |
| 55-3/4"                          |              | 100.0     | 100.0   | 76.1      | 76.1    | 100.0     | 100.0   | 100.0     | 100.0   |
| 40-3/4"                          | 96"          | 100.0     | 100.0   | 91.5      | 91.5    | 100.0     | 100.0   | 100.0     | 100.0   |
| 43-3/4"                          |              | 100.0     | 100.0   | 85.3      | 85.3    | 100.0     | 100.0   | 100.0     | 100.0   |
| 46-3/4"                          |              | 100.0     | 100.0   | 79.8      | 79.8    | 100.0     | 100.0   | 100.0     | 100.0   |
| 49-3/4"                          |              | 100.0     | 100.0   | 75.0      | 75.0    | 100.0     | 100.0   | 100.0     | 100.0   |
| 52-3/4"                          |              | 100.0     | 100.0   | 70.7      | 70.7    | 100.0     | 100.0   | 100.0     | 100.0   |
| 55-3/4"                          |              | 94.6      | 94.6    | 66.9      | 66.9    | 100.0     | 100.0   | 100.0     | 100.0   |
| 40-3/4"                          | 97-3/4"      | 100.0     | 100.0   | 88.3      | 88.3    | 100.0     | 100.0   | 100.0     | 100.0   |
| 43-3/4"                          |              | 100.0     | 100.0   | 82.2      | 82.2    | 100.0     | 100.0   | 100.0     | 100.0   |
| 46-3/4"                          |              | 100.0     | 100.0   | 76.9      | 76.9    | 100.0     | 100.0   | 100.0     | 100.0   |
| 49-3/4"                          |              | 100.0     | 100.0   | 72.3      | 72.3    | 100.0     | 100.0   | 100.0     | 100.0   |
| 52-3/4"                          |              | 96.4      | 96.4    | 68.2      | 68.2    | 100.0     | 100.0   | 100.0     | 100.0   |
| 55-3/4"                          |              | 91.2      | 91.2    | 64.5      | 64.5    | 100.0     | 100.0   | 100.0     | 100.0   |
| 40-3/4"                          | 102"         | 75.0      | 75.0    | 75.0      | 75.0    | 75.0      | 75.0    | 100.0     | 100.0   |
| 43-3/4"                          |              | 75.0      | 75.0    | 75.0      | 75.0    | 75.0      | 75.0    | 100.0     | 100.0   |
| 46-3/4"                          |              | 75.0      | 75.0    | 70.7      | 70.7    | 75.0      | 75.0    | 100.0     | 100.0   |
| 49-3/4"                          |              | 75.0      | 75.0    | 66.4      | 66.4    | 75.0      | 75.0    | 100.0     | 100.0   |
| 52-3/4"                          |              | 75.0      | 75.0    | 62.6      | 62.6    | 75.0      | 75.0    | 100.0     | 100.0   |
| 55-3/4"                          |              | 75.0      | 75.0    | 59.3      | 59.3    | 75.0      | 75.0    | 100.0     | 100.0   |
| 40-3/4"                          | 108"         | 75.0      | 75.0    | 72.3      | 72.3    | 75.0      | 75.0    | 100.0     | 100.0   |
| 43-3/4"                          |              | 75.0      | 75.0    | 67.4      | 67.4    | 75.0      | 75.0    | 100.0     | 100.0   |
| 46-3/4"                          |              | 75.0      | 75.0    | 63.0      | 63.0    | 75.0      | 75.0    | 100.0     | 100.0   |
| 49-3/4"                          |              | 75.0      | 75.0    | 61.4      | 61.4    | 75.0      | 75.0    | 100.0     | 100.0   |
| 52-3/4"                          |              | 75.0      | 75.0    | 59.2      | 59.2    | 75.0      | 75.0    | 100.0     | 100.0   |
| 55-3/4"                          |              | 75.0      | 75.0    | 55.9      | 55.9    | 75.0      | 75.0    | 100.0     | 100.0   |
| 40-3/4"                          | 114"         | 75.0      | 75.0    | 64.9      | 64.9    | 75.0      | 75.0    | 100.0     | 100.0   |
| 43-3/4"                          |              | 75.0      | 75.0    | 60.5      | 60.5    | 75.0      | 75.0    | 100.0     | 100.0   |
| 46-3/4"                          |              | 75.0      | 75.0    | 56.6      | 56.6    | 75.0      | 75.0    | 100.0     | 100.0   |
| 49-3/4"                          |              | 75.0      | 75.0    | 53.2      | 53.2    | 75.0      | 75.0    | 100.0     | 100.0   |
| 40-3/4"                          | 120"         | 75.0      | 75.0    | 58.6      | 58.6    | 75.0      | 75.0    | 100.0     | 100.0   |
| 43-3/4"                          |              | 75.0      | 75.0    | 54.6      | 54.6    | 75.0      | 75.0    | 100.0     | 100.0   |
| 46-3/4"                          |              | 72.2      | 72.2    | 51.1      | 51.1    | 75.0      | 75.0    | 100.0     | 100.0   |
| 49-3/4"                          |              | 67.8      | 67.8    | 48.0      | 48.0    | 75.0      | 75.0    | 100.0     | 100.0   |

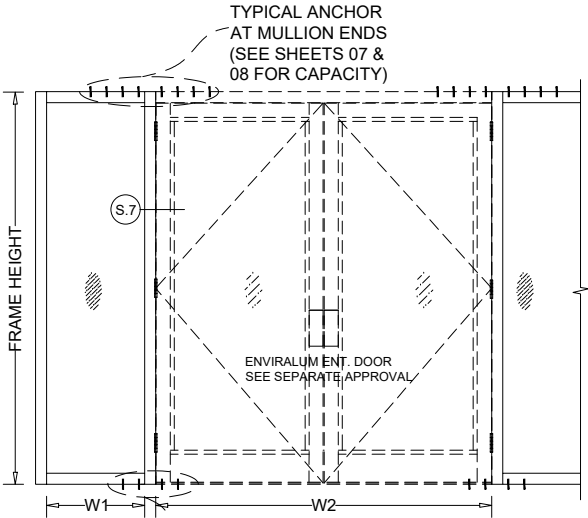


WIDTH (W) =  $\frac{W1 + W2}{2} + 1.750$

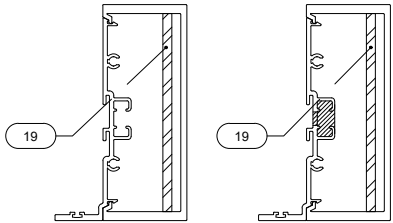


DOOR MULL 'DM1'

|                                               |         |         |
|-----------------------------------------------|---------|---------|
|                                               | Ix IN^4 | Sx IN^3 |
| ALUMINUM                                      | 5.0950  | 2.0993  |
| STEEL                                         | 2.2740  | 1.1025  |
| TOTAL<br><small>Ix ALUM + Ix STL X2.9</small> | 11.6896 |         |

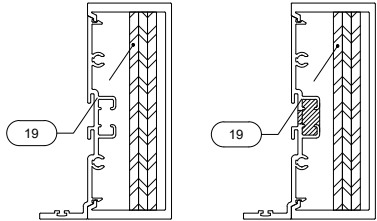


WIDTH (W) =  $\frac{W1}{2} + \frac{W2}{4} + 1.750$



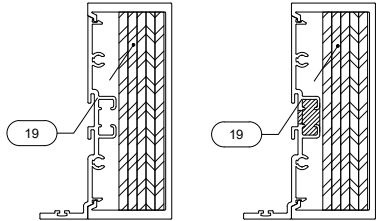
DOOR MULL 'DM2'

|                                               |         |         |
|-----------------------------------------------|---------|---------|
|                                               | Ix IN^4 | Sx IN^3 |
| ALUMINUM                                      | 5.0950  | 2.0993  |
| STEEL                                         | 3.281   | 1.590   |
| TOTAL<br><small>Ix ALUM + Ix STL X2.9</small> | 14.6099 |         |



DOOR MULL 'DM3'

|                                               |         |         |
|-----------------------------------------------|---------|---------|
|                                               | Ix IN^4 | Sx IN^3 |
| ALUMINUM                                      | 5.0950  | 2.0993  |
| STEEL                                         | 9.843   | 4.770   |
| TOTAL<br><small>Ix ALUM + Ix STL X2.9</small> | 33.639  |         |

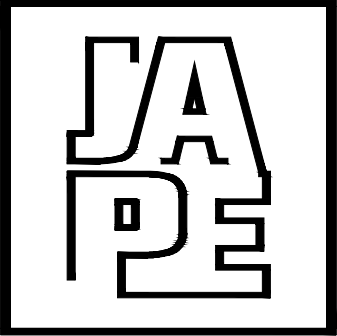


DOOR MULL 'DM4'

|                                               |         |         |
|-----------------------------------------------|---------|---------|
|                                               | Ix IN^4 | Sx IN^3 |
| ALUMINUM                                      | 5.0950  | 2.0993  |
| STEEL                                         | 16.405  | 7.950   |
| TOTAL<br><small>Ix ALUM + Ix STL X2.9</small> | 52.6695 |         |

DOOR MULLIONS

FL# 19002.1



JAVAD AHMAD PE, inc

7320 NW 58th St, Miami, FL 33166  
Ph: (305) 424-8001  
support@ja-pe.com

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

PROJECT :

ENV-450 ALUMINUM  
WINDOW WALL SYSTEM  
(L.M.I. & S.M.I)

CLIENT :

ENVIRALUM IND. INC.

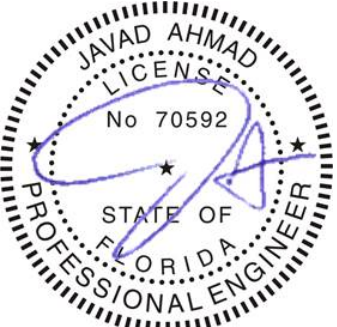
5100 NW 72 AVE.  
UNIT C MIAMI, FL 33166  
PHONE: 305.752.4411  
FAX: 305.406.3877

REVISION

| No. | DATE | BY | DESCRIPTION |
|-----|------|----|-------------|
| 0   |      |    |             |
|     |      |    |             |
|     |      |    |             |

|             |            |
|-------------|------------|
| date:       | 2/12/2026  |
| scale:      | N/A        |
| drawn by:   | M.S.       |
| check by:   |            |
| Drawing no. | JA-1144-25 |

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



SEALED: 02/27/2026

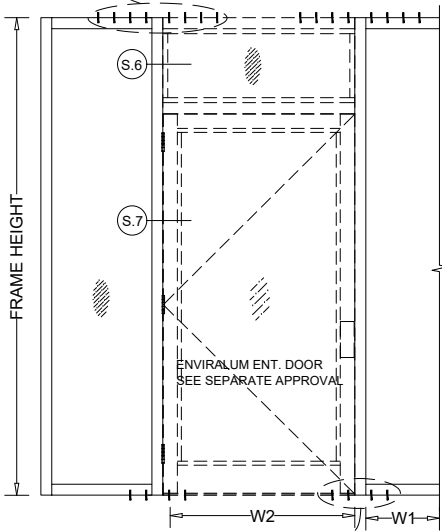
DOOR MULL TABLES

SHEET No.  
09 OF 15

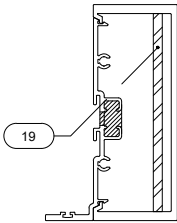
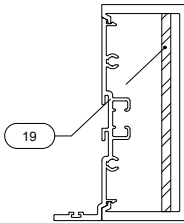
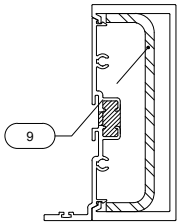
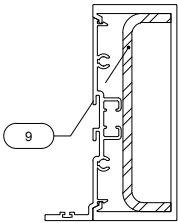
| DOOR MULLION LOAD CAPACITY - PSF |              |           |         |           |         |           |         |           |         |
|----------------------------------|--------------|-----------|---------|-----------|---------|-----------|---------|-----------|---------|
| NOMINAL DIMS.                    |              | MULL'DM1' |         | MULL'DM2' |         | MULL'DM3' |         | MULL'DM4' |         |
| WIDTH (W)                        | FRAME HEIGHT | EXT.(+)   | INT.(-) | EXT.(+)   | INT.(-) | EXT.(+)   | INT.(-) | EXT.(+)   | INT.(-) |
| 40-3/4"                          | 90"          | 100.0     | 100.0   | 100.0     | 100.0   | 100.0     | 100.0   | 100.0     | 100.0   |
| 43-3/4"                          |              | 100.0     | 100.0   | 97.0      | 97.0    | 100.0     | 100.0   | 100.0     | 100.0   |
| 46-3/4"                          |              | 100.0     | 100.0   | 90.8      | 90.8    | 100.0     | 100.0   | 100.0     | 100.0   |
| 49-3/4"                          |              | 100.0     | 100.0   | 85.3      | 85.3    | 100.0     | 100.0   | 100.0     | 100.0   |
| 52-3/4"                          |              | 100.0     | 100.0   | 80.4      | 80.4    | 100.0     | 100.0   | 100.0     | 100.0   |
| 55-3/4"                          |              | 100.0     | 100.0   | 76.1      | 76.1    | 100.0     | 100.0   | 100.0     | 100.0   |
| 40-3/4"                          | 96"          | 100.0     | 100.0   | 91.5      | 91.5    | 100.0     | 100.0   | 100.0     | 100.0   |
| 43-3/4"                          |              | 100.0     | 100.0   | 85.3      | 85.3    | 100.0     | 100.0   | 100.0     | 100.0   |
| 46-3/4"                          |              | 100.0     | 100.0   | 79.8      | 79.8    | 100.0     | 100.0   | 100.0     | 100.0   |
| 49-3/4"                          |              | 100.0     | 100.0   | 75.0      | 75.0    | 100.0     | 100.0   | 100.0     | 100.0   |
| 52-3/4"                          |              | 100.0     | 100.0   | 70.7      | 70.7    | 100.0     | 100.0   | 100.0     | 100.0   |
| 55-3/4"                          |              | 94.6      | 94.6    | 66.9      | 66.9    | 100.0     | 100.0   | 100.0     | 100.0   |
| 40-3/4"                          | 97-3/4"      | 100.0     | 100.0   | 88.3      | 88.3    | 100.0     | 100.0   | 100.0     | 100.0   |
| 43-3/4"                          |              | 100.0     | 100.0   | 82.2      | 82.2    | 100.0     | 100.0   | 100.0     | 100.0   |
| 46-3/4"                          |              | 100.0     | 100.0   | 76.9      | 76.9    | 100.0     | 100.0   | 100.0     | 100.0   |
| 49-3/4"                          |              | 100.0     | 100.0   | 72.3      | 72.3    | 100.0     | 100.0   | 100.0     | 100.0   |
| 52-3/4"                          |              | 96.4      | 96.4    | 68.2      | 68.2    | 100.0     | 100.0   | 100.0     | 100.0   |
| 55-3/4"                          |              | 91.2      | 91.2    | 64.5      | 64.5    | 100.0     | 100.0   | 100.0     | 100.0   |
| 40-3/4"                          | 102"         | 75.0      | 75.0    | 75.0      | 75.0    | 75.0      | 75.0    | 100.0     | 100.0   |
| 43-3/4"                          |              | 75.0      | 75.0    | 75.0      | 75.0    | 75.0      | 75.0    | 100.0     | 100.0   |
| 46-3/4"                          |              | 75.0      | 75.0    | 70.7      | 70.7    | 75.0      | 75.0    | 100.0     | 100.0   |
| 49-3/4"                          |              | 75.0      | 75.0    | 66.4      | 66.4    | 75.0      | 75.0    | 100.0     | 100.0   |
| 52-3/4"                          |              | 75.0      | 75.0    | 62.6      | 62.6    | 75.0      | 75.0    | 100.0     | 100.0   |
| 55-3/4"                          |              | 75.0      | 75.0    | 59.3      | 59.3    | 75.0      | 75.0    | 100.0     | 100.0   |
| 40-3/4"                          | 108"         | 75.0      | 75.0    | 72.3      | 72.3    | 75.0      | 75.0    | 100.0     | 100.0   |
| 43-3/4"                          |              | 75.0      | 75.0    | 67.4      | 67.4    | 75.0      | 75.0    | 100.0     | 100.0   |
| 46-3/4"                          |              | 75.0      | 75.0    | 63.0      | 63.0    | 75.0      | 75.0    | 100.0     | 100.0   |
| 49-3/4"                          |              | 75.0      | 75.0    | 61.4      | 61.4    | 75.0      | 75.0    | 100.0     | 100.0   |
| 52-3/4"                          |              | 75.0      | 75.0    | 59.2      | 59.2    | 75.0      | 75.0    | 100.0     | 100.0   |
| 55-3/4"                          |              | 75.0      | 75.0    | 55.9      | 55.9    | 75.0      | 75.0    | 100.0     | 100.0   |
| 40-3/4"                          | 114"         | 75.0      | 75.0    | 64.9      | 64.9    | 75.0      | 75.0    | 100.0     | 100.0   |
| 43-3/4"                          |              | 75.0      | 75.0    | 60.5      | 60.5    | 75.0      | 75.0    | 100.0     | 100.0   |
| 46-3/4"                          |              | 75.0      | 75.0    | 56.6      | 56.6    | 75.0      | 75.0    | 100.0     | 100.0   |
| 49-3/4"                          |              | 75.0      | 75.0    | 53.2      | 53.2    | 75.0      | 75.0    | 100.0     | 100.0   |
| 40-3/4"                          | 120"         | 75.0      | 75.0    | 58.6      | 58.6    | 75.0      | 75.0    | 100.0     | 100.0   |
| 43-3/4"                          |              | 75.0      | 75.0    | 54.6      | 54.6    | 75.0      | 75.0    | 100.0     | 100.0   |
| 46-3/4"                          |              | 72.2      | 72.2    | 51.1      | 51.1    | 75.0      | 75.0    | 100.0     | 100.0   |
| 49-3/4"                          |              | 67.8      | 67.8    | 48.0      | 48.0    | 75.0      | 75.0    | 100.0     | 100.0   |

| DOOR MULLION LOAD CAPACITY - PSF |              |           |         |           |         |           |         |
|----------------------------------|--------------|-----------|---------|-----------|---------|-----------|---------|
| NOMINAL DIMS.                    |              | MULL'DM1' |         | MULL'DM3' |         | MULL'DM4' |         |
| WIDTH (W)                        | FRAME HEIGHT | EXT.(+)   | INT.(-) | EXT.(+)   | INT.(-) | EXT.(+)   | INT.(-) |
| 40-3/4"                          | 126"         | 67.8      | 67.8    | 75.0      | 75.0    | 100.0     | 100.0   |
| 43-3/4"                          |              | 67.8      | 67.8    | 75.0      | 75.0    | 100.0     | 100.0   |
| 46-3/4"                          |              | 63.0      | 63.0    | 70.0      | 70.0    | 100.0     | 100.0   |
| 49-3/4"                          |              | 59.0      | 59.0    | 65.0      | 65.0    | 100.0     | 100.0   |
| 36-3/4"                          | 132"         | 67.8      | 67.8    | 75.0      | 75.0    | 100.0     | 100.0   |
| 40-3/4"                          |              | 65.0      | 65.0    | 71.0      | 71.0    | 100.0     | 100.0   |
| 43-3/4"                          |              | 59.0      | 59.0    | 66.0      | 66.0    | 100.0     | 100.0   |
| 46-3/4"                          | 138"         | 55.0      | 55.0    | 61.0      | 61.0    | 100.0     | 100.0   |
| 32-3/4"                          |              | 67.8      | 67.8    | 75.0      | 75.0    | 100.0     | 100.0   |
| 36-3/4"                          |              | 64.0      | 64.0    | 70.0      | 70.0    | 100.0     | 100.0   |
| 40-3/4"                          |              | 57.0      | 57.0    | 63.0      | 63.0    | 100.0     | 100.0   |
| 43-3/4"                          |              | 52.0      | 52.0    | 58.0      | 58.0    | 100.0     | 100.0   |
| 28-3/4"                          | 144"         | 67.8      | 67.8    | 75.0      | 75.0    | 100.0     | 100.0   |
| 32-3/4"                          |              | 64.0      | 64.0    | 71.0      | 71.0    | 100.0     | 100.0   |
| 36-3/4"                          |              | 56.0      | 56.0    | 62.0      | 62.0    | 100.0     | 100.0   |
| 40-3/4"                          |              | 50.0      | 50.0    | 55.0      | 55.0    | 100.0     | 100.0   |

TYPICAL ANCHOR  
AT MULLION ENDS  
(SEE SHEETS 07 &  
08 FOR CAPACITY)



WIDTH (W) =  $\frac{W1 + W2}{2} + 1.750$

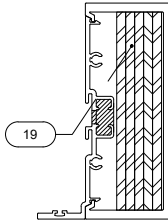
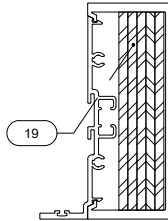
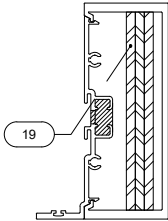
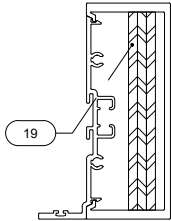


DOOR MULL 'DM1'

|                                               |         |         |
|-----------------------------------------------|---------|---------|
|                                               | Ix IN^4 | Sx IN^3 |
| ALUMINUM                                      | 5.0950  | 2.0993  |
| STEEL                                         | 2.2740  | 1.1025  |
| TOTAL<br><small>Ix ALUM + Ix STL X2.9</small> | 11.6896 |         |

DOOR MULL 'DM2'

|                                               |         |         |
|-----------------------------------------------|---------|---------|
|                                               | Ix IN^4 | Sx IN^3 |
| ALUMINUM                                      | 5.0950  | 2.0993  |
| STEEL                                         | 3.281   | 1.590   |
| TOTAL<br><small>Ix ALUM + Ix STL X2.9</small> | 14.6099 |         |



DOOR MULL 'DM3'

|                                               |         |         |
|-----------------------------------------------|---------|---------|
|                                               | Ix IN^4 | Sx IN^3 |
| ALUMINUM                                      | 5.0950  | 2.0993  |
| STEEL                                         | 9.843   | 4.770   |
| TOTAL<br><small>Ix ALUM + Ix STL X2.9</small> | 33.639  |         |

DOOR MULL 'DM4'

|                                               |         |         |
|-----------------------------------------------|---------|---------|
|                                               | Ix IN^4 | Sx IN^3 |
| ALUMINUM                                      | 5.0950  | 2.0993  |
| STEEL                                         | 16.405  | 7.950   |
| TOTAL<br><small>Ix ALUM + Ix STL X2.9</small> | 52.6695 |         |

DOOR MULLIONS FL# 19002.1



JAVAD AHMAD PE, inc

7320 NW 58th St, Miami, FL 33166  
Ph: (305) 424-8001  
support@ja-pe.com

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

PROJECT :

ENV-450 ALUMINUM  
WINDOW WALL SYSTEM  
(L.M.I. & S.M.I)

CLIENT :

ENVIRALUM IND. INC.

5100 NW 72 AVE.  
UNIT C MIAMI, FL 33166  
PHONE: 305.752.4411  
FAX: 305.406.3877

REVISION

| No. | DATE | BY | DESCRIPTION |
|-----|------|----|-------------|
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|     |      |    |             |

date: 2/12/2026

scale: N/A

drawn by: M.S.

check by:

Drawing no. JA-1144-25

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

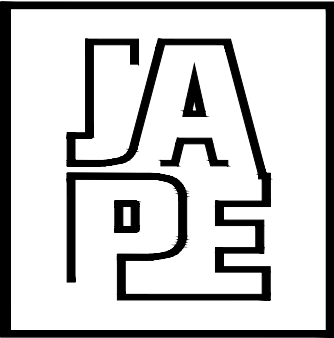


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DOOR MULL TABLES

SHEET No.  
9.1 OF 15





JAVAD AHMAD PE, inc

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REVISION

| No. | DATE | BY | DESCRIPTION |
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|     |      |    |             |
|     |      |    |             |

date: 2/12/2026

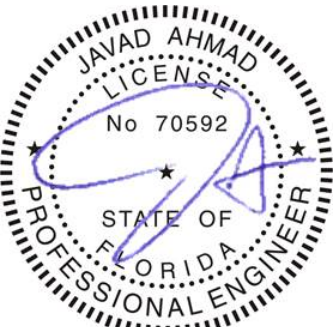
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drawn by: M.S.

check by:

Drawing no. JA-1144-25

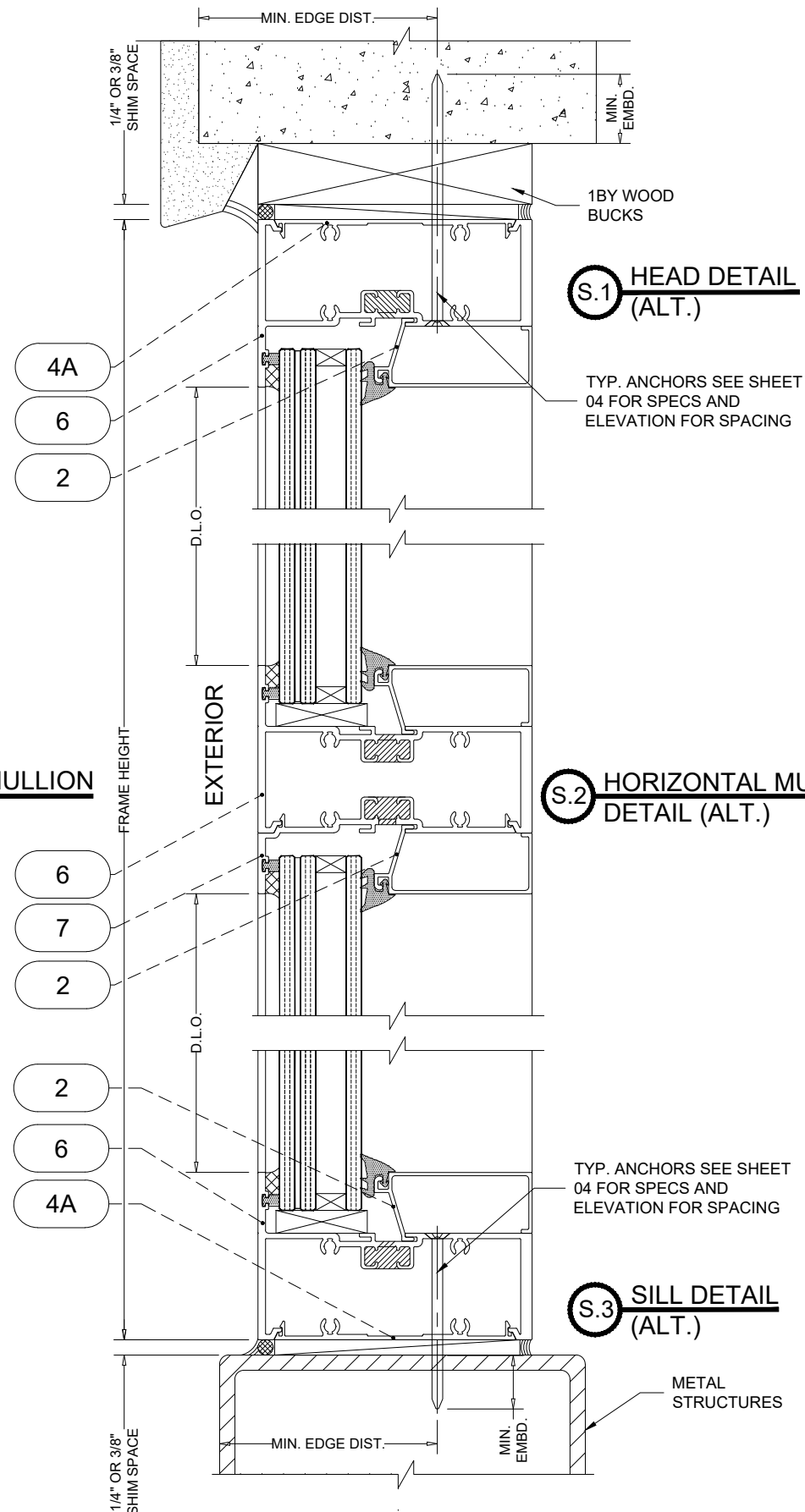
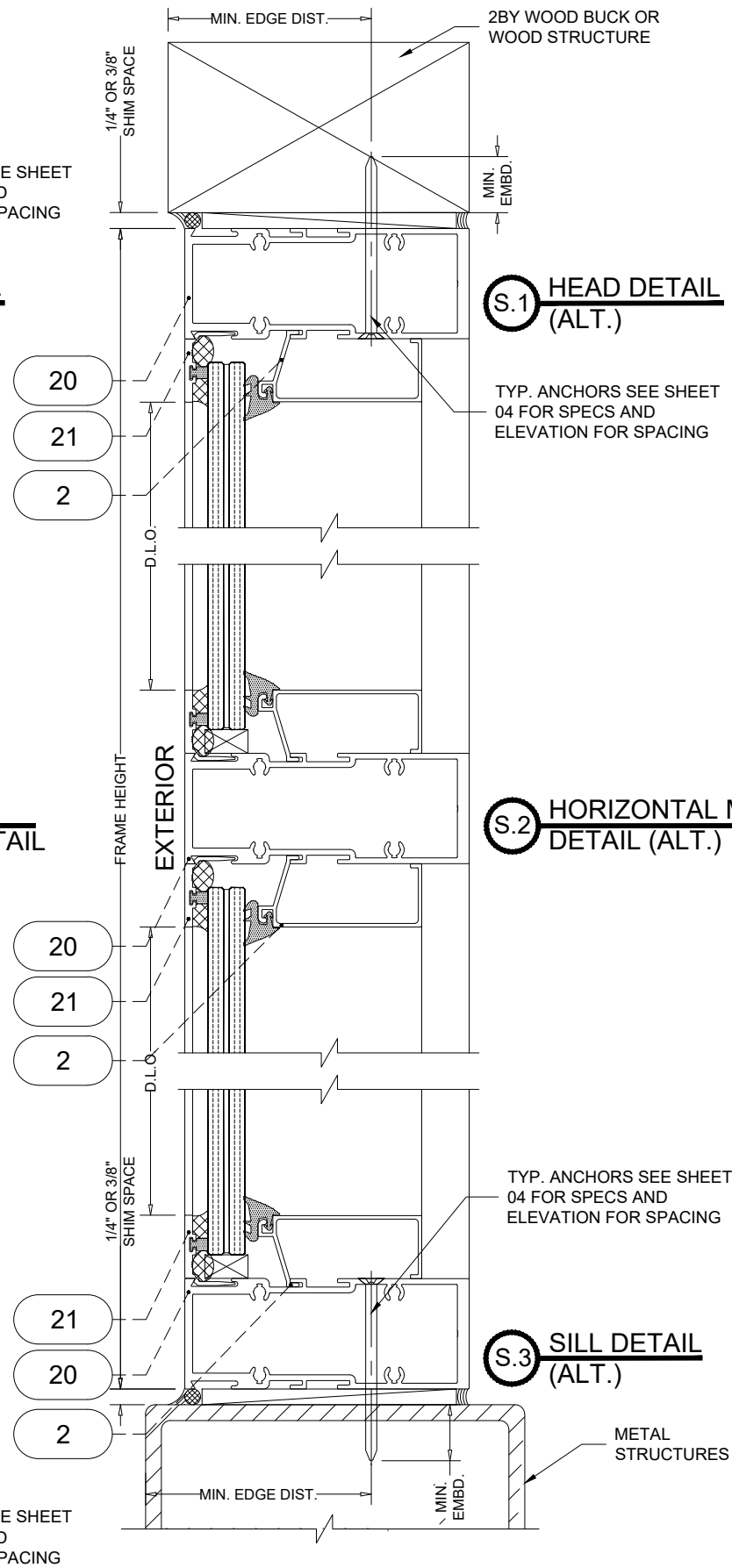
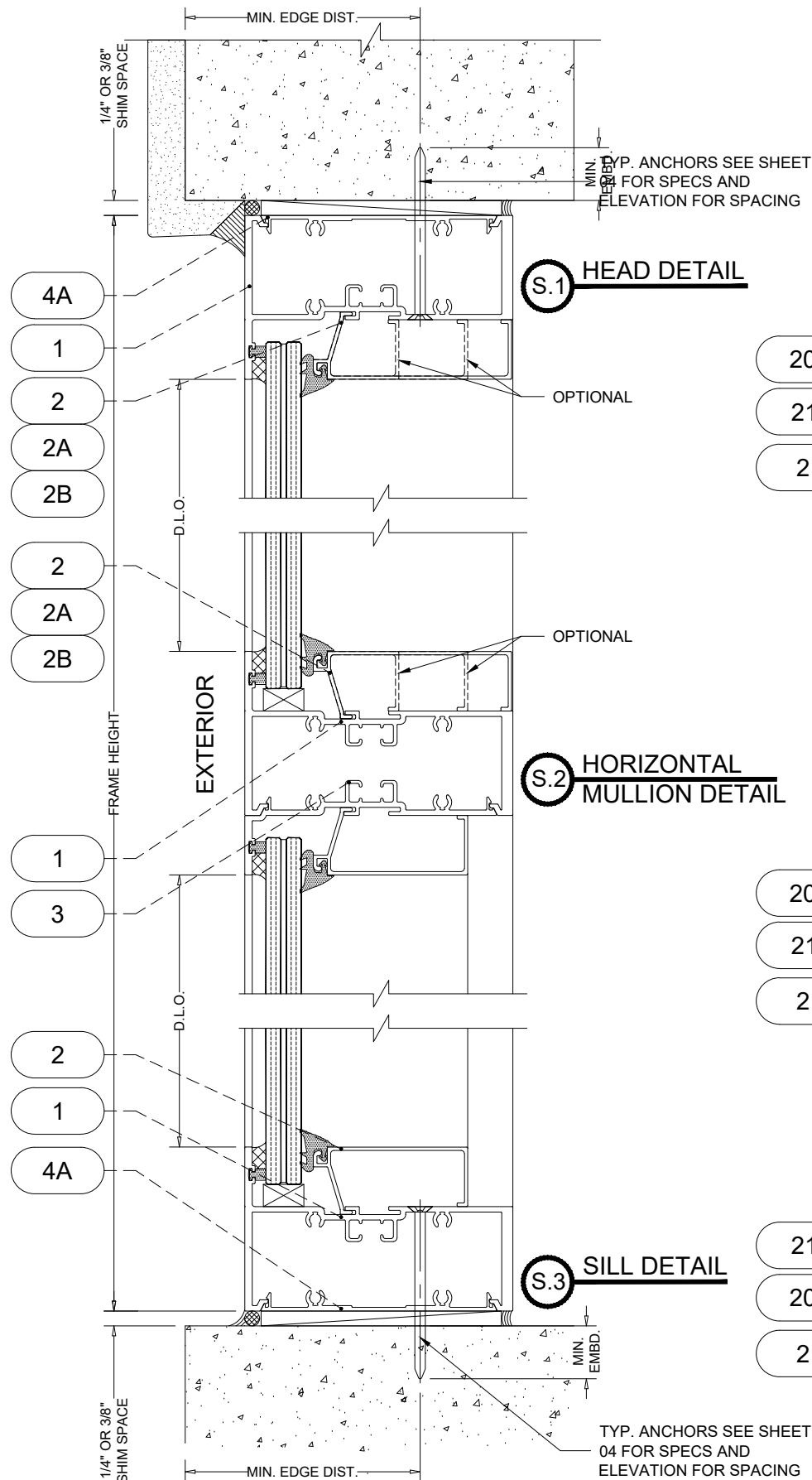
Eng: JAVAD AHMAD, PE  
CIVIL FLA. PE # 70592 - C.A.N. 34254



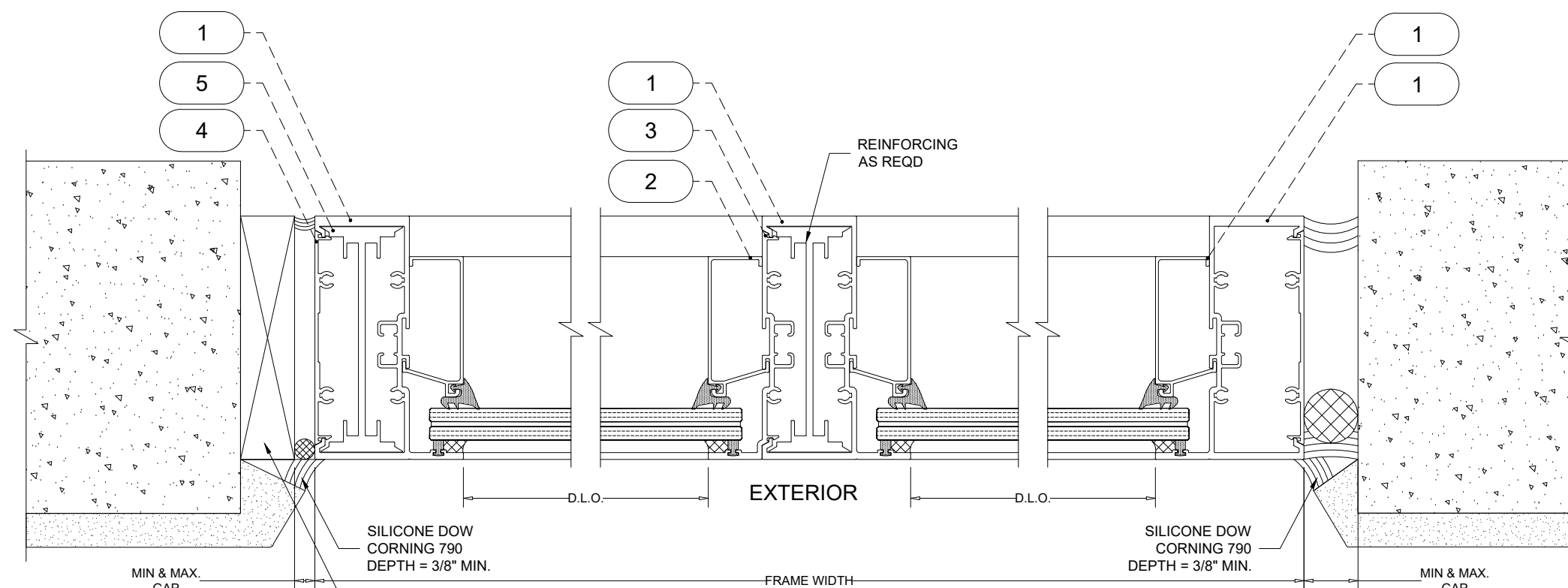
SEALED: 02/27/2026

SEC. DETAILS

SHEET No.  
11 OF 15



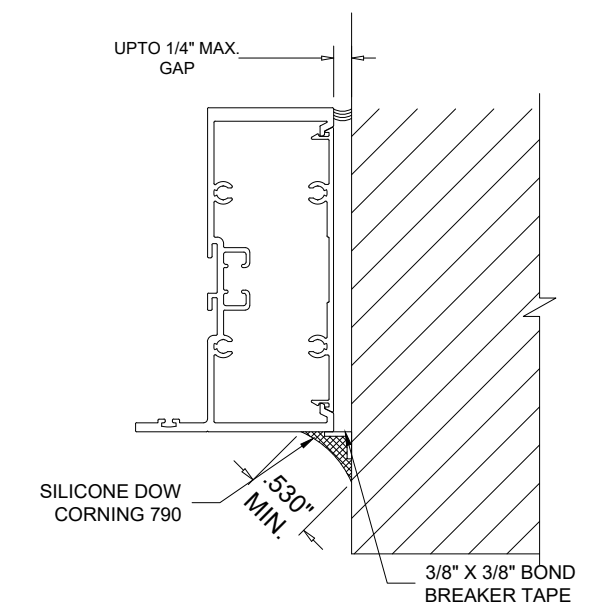
FL# 19002.1



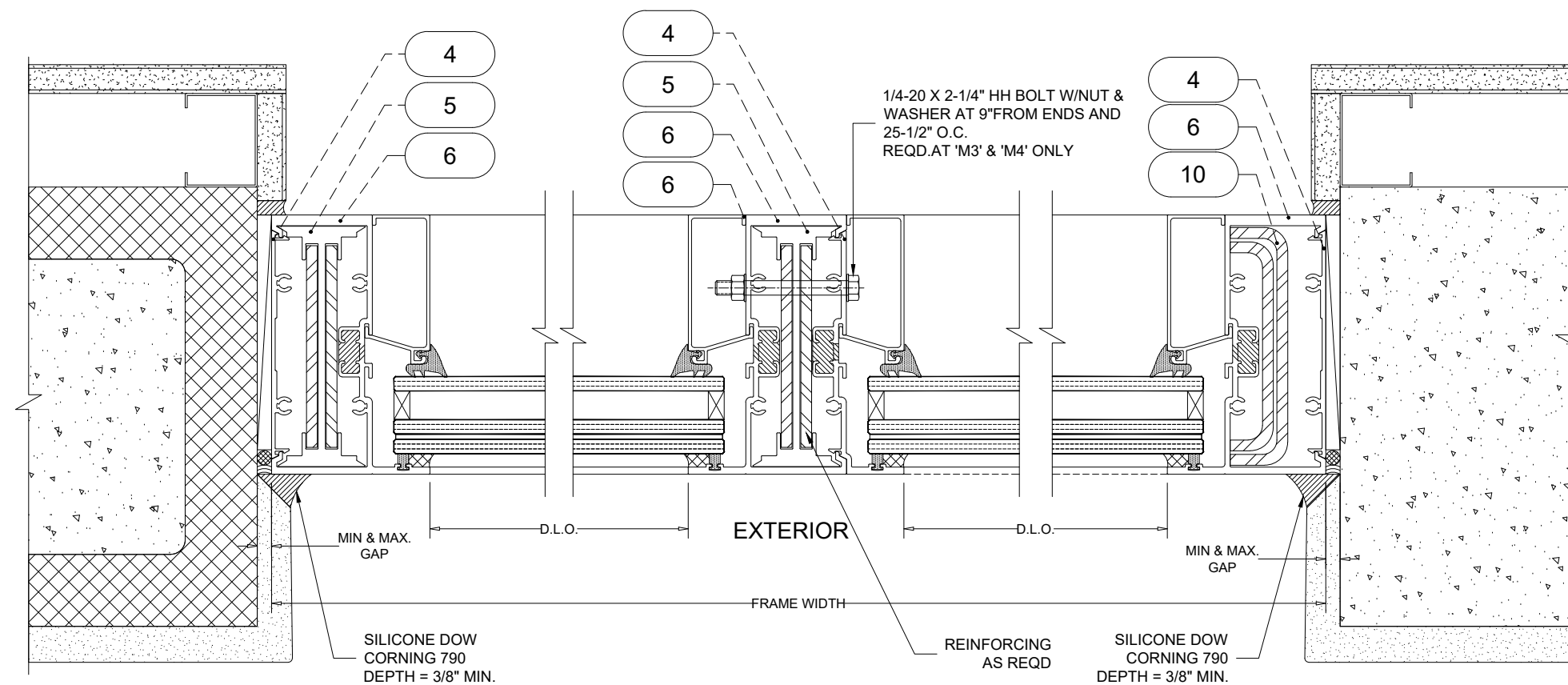
**S.4 JAMB DETAIL**

**S.5 VERTICAL MULLION DETAIL**

**S.4 JAMB DETAIL**



**S.4 FREE STANDING JAMB**  
FOR JOINTS GAP LESS TAN 1/4" US BOND BREAKER TAPE SEE DETAIL ABOVE



**S.4 JAMB DETAIL (ALT.)**

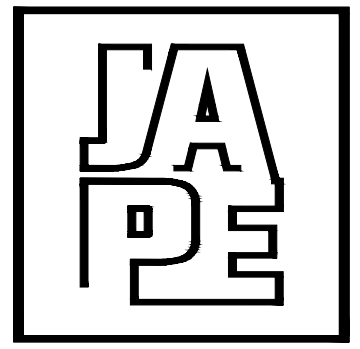
**S.5 VERTICAL MULLION DETAIL (ALT.)**

**S.4 JAMB DETAIL (ALT.)**

**UNSCREWS JAMBS FREE STANDING**

| MAX. FRAME HEIGHT | GAP   |      |
|-------------------|-------|------|
|                   | MIN.  | MAX. |
| 84"               | 1/4"  | 1"   |
| 96"               | 5/16" | 1"   |
| 120"              | 3/8"  | 1"   |
| 144"              | 1/2"  | 1"   |

**NOTE:**  
ALTERNATE SEALANTS AT JAMB GAPS CAN BE DESIGNED BY ENGINEER OF RECORD BASED ON MANUFACTURE GUIDE LINES.



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**PROJECT :**

**ENV-450 ALUMINUM WINDOW WALL SYSTEM (L.M.I. & S.M.I)**

**CLIENT :**

**ENVIRALUM IND. INC.**  
  
5100 NW 72 AVE.  
UNIT C MIAMI, FL 33166  
PHONE: 305.752.4411  
FAX: 305.406.3877

**REVISION**

| No. | DATE | BY | DESCRIPTION |
|-----|------|----|-------------|
| 0   |      |    |             |
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**date:** 2/12/2026

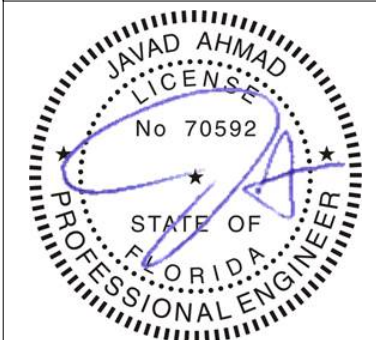
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**drawn by:** M.S.

**check by:**

**Drawing no.** JA-1144-25

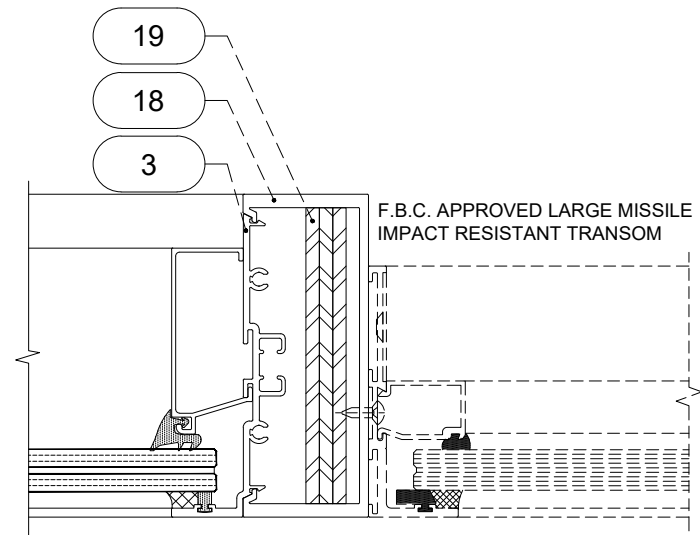
Eng: JAVAD AHMAD, PE  
CIVIL FLA. PE # 70592 – C.A.N. 34254



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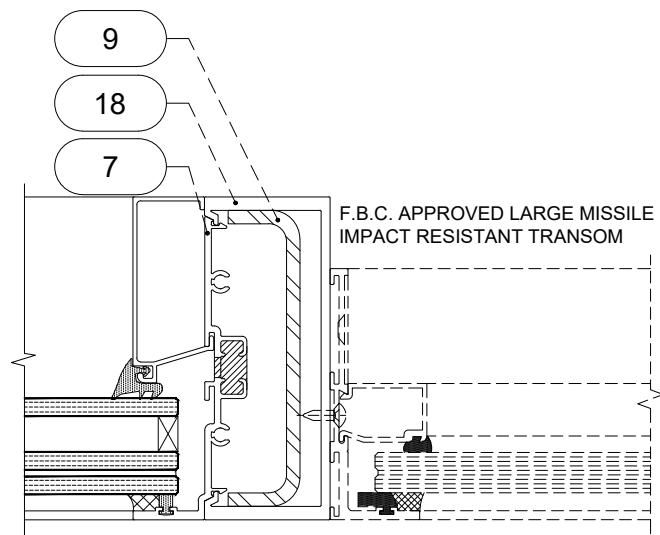
**SEC. DETAILS** **SHEET No. 12 OF 15**

**FL# 19002.1**



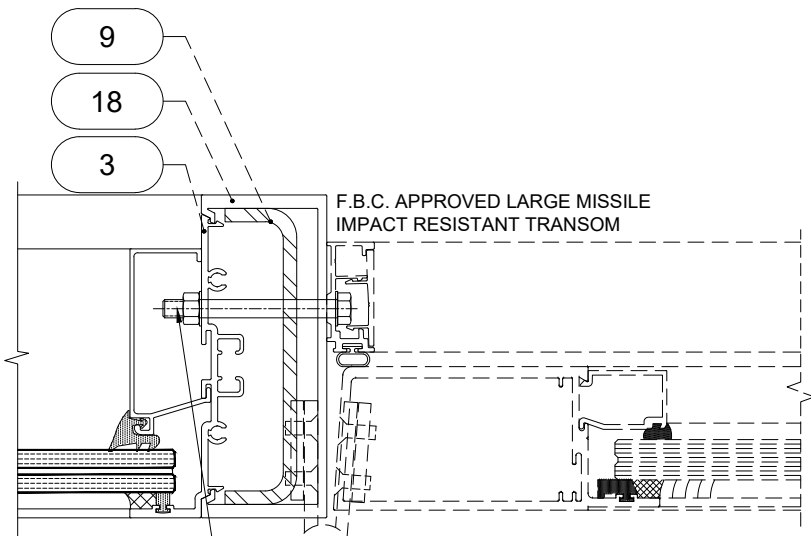
EXTERIOR

S.6 VERTICAL MULLION DETAIL



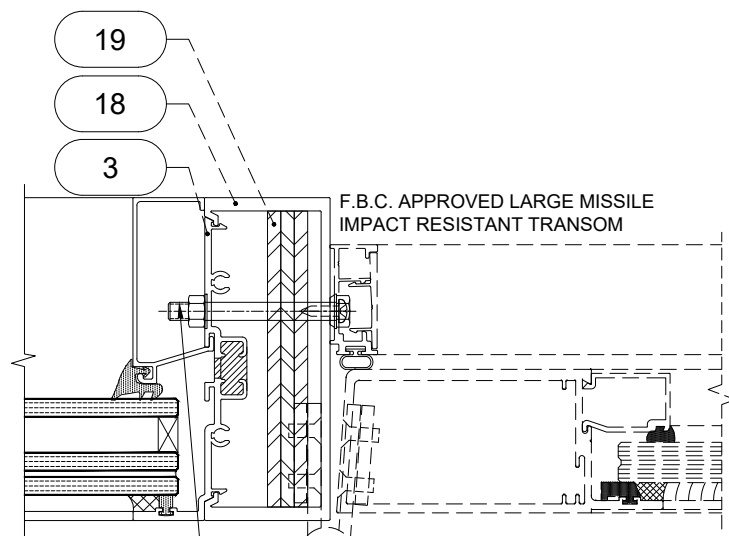
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S.6 VERTICAL MULLION DETAIL



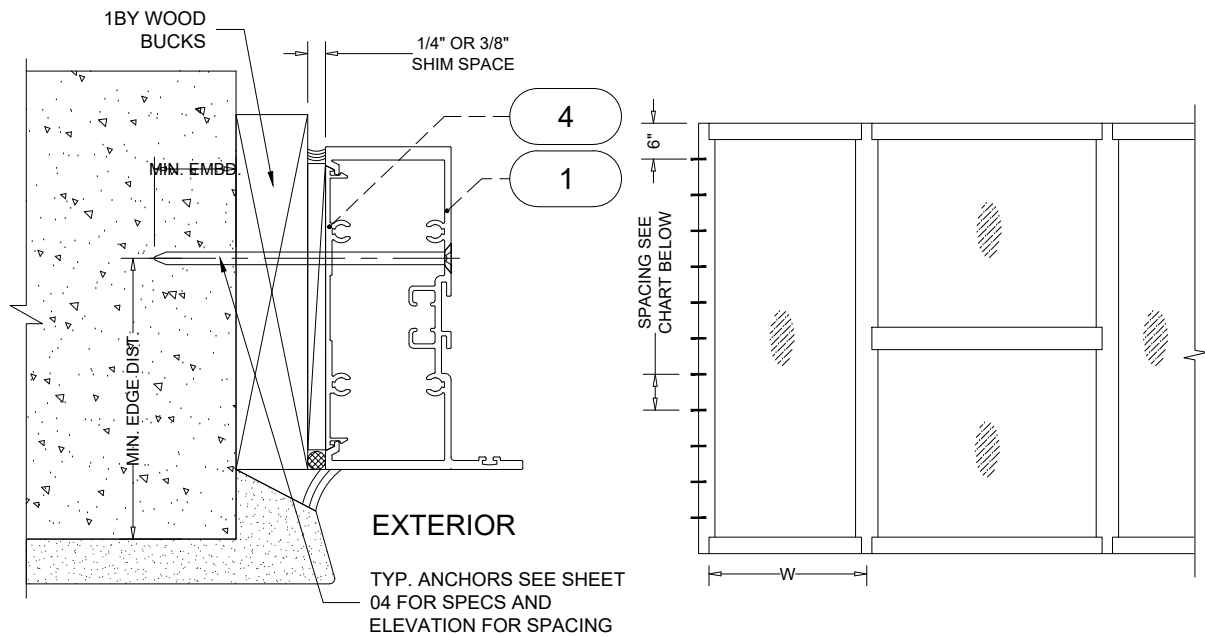
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S.7 VERTICAL MULLION DETAIL



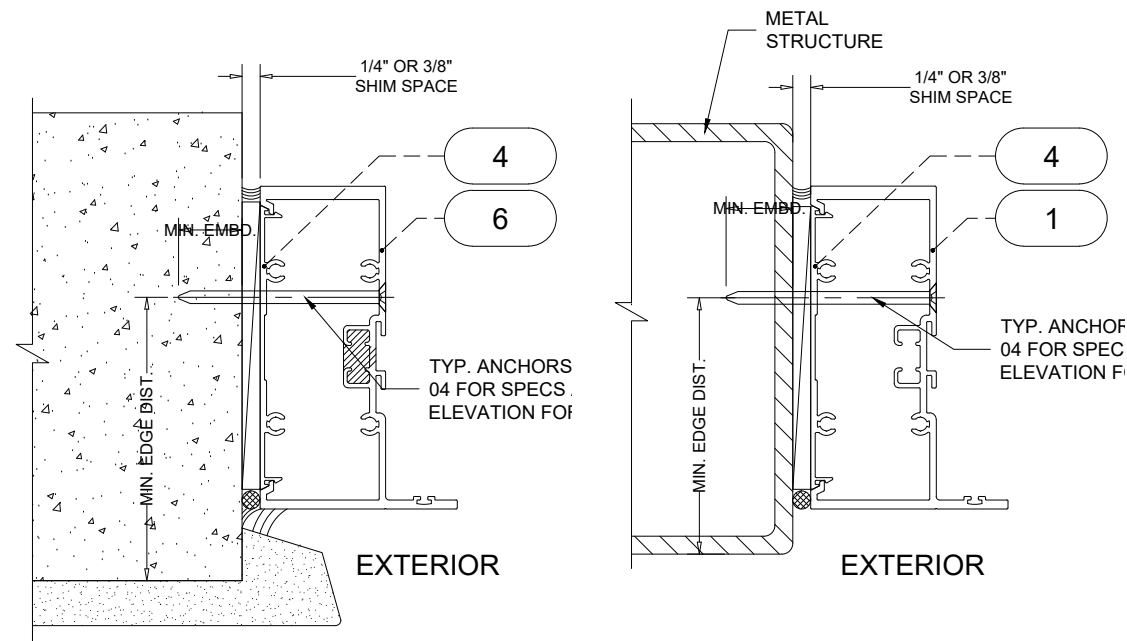
EXTERIOR

S.7 VERTICAL MULLION DETAIL



EXTERIOR

TYP. ANCHORS SEE SHEET 04 FOR SPECS AND ELEVATION FOR SPACING



EXTERIOR

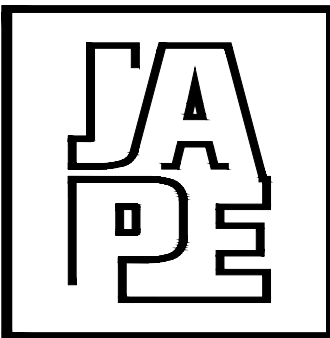
EXTERIOR

SECURED JAMBS  
(REINFORCING NOT REQUIRED)

| JAMB ANCHOR SPACING |                |           |              |                     |            |                |            |           |
|---------------------|----------------|-----------|--------------|---------------------|------------|----------------|------------|-----------|
| WIDTH (W)           | 3/8" MAX. SHIM |           |              |                     |            |                |            |           |
|                     | TYPE 'A'       | TYPE 'AA' | TYPE 'B'&'C' | TYPE 'A1','B1','C1' | TYPE 'AA1' | TYPE 'A1'&'B1' | TYPE 'AA1' | TYPE 'C1' |
|                     | EXT.(+)        | EXT.(+)   | EXT.(+)      | EXT.(+)             | EXT.(+)    | EXT.(+)        | EXT.(+)    | EXT.(+)   |
|                     | INT.(-)        | INT.(-)   | INT.(-)      | INT.(-)             | INT.(-)    | INT.(-)        | INT.(-)    | INT.(-)   |
| 42"                 | 10"            | 10"       | 10"          | 10"                 | 10"        | 10"            | 10"        | 10"       |
| 48"                 | 10"            | 9"        | 10"          | 10"                 | 10"        | 10"            | 10"        | 10"       |
| 54"                 | 10"            | 8"        | 10"          | 10"                 | 9"         | 10"            | 9"         | 10"       |
| 60"                 | 10"            | 7"        | 10"          | 10"                 | 8"         | 10"            | 8"         | 10"       |
| 66"                 | 9"             | 6"        | 10"          | 10"                 | 7"         | 9"             | 7"         | 10"       |
| 72"                 | 8"             | 6"        | 10"          | 10"                 | 7"         | 0'-8"          | 7"         | 10"       |

NOTE:  
SEE SEPRATE APPROVAL FOR DESIGN LOAD CAPACITY OF DOORS AND DOOR ANCHORS.

LOWER VALUES FROM DOORS APPROVAL OR STOREFRONT SYSTEM CAPACITY CHARTS WILL APPLY TO ENTIRE SYSTEM.



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check by:

Drawing no. JA-1144-25

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

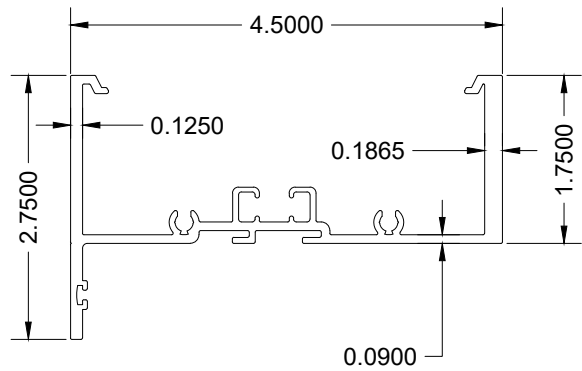


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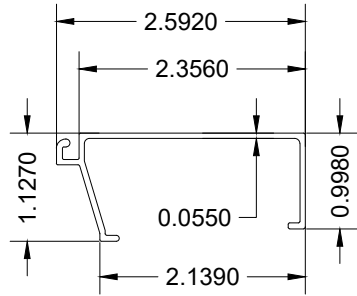
SEC. DETAILS

SHEET No. 13 OF 15

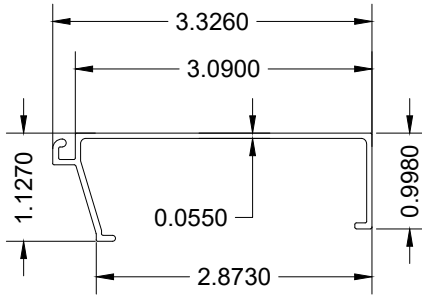
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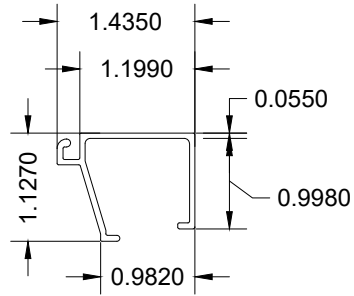
1 HEAD / SILL  
JAMB / INTERMEDIATE



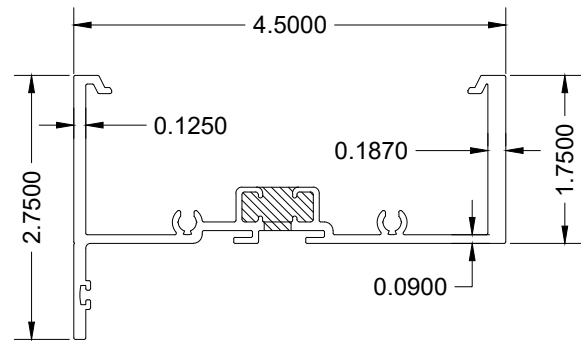
2 GLASS STOP



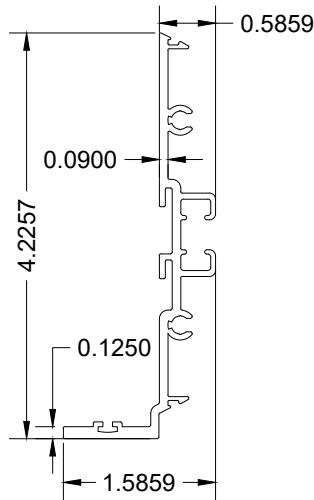
2A EXTENDED GLASS STOP



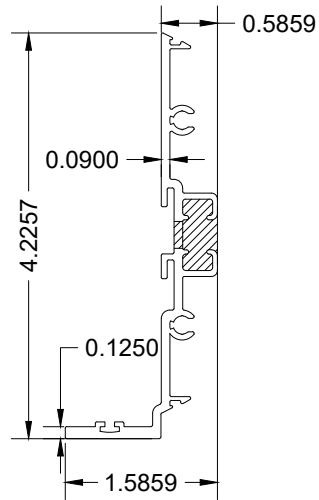
2B GLASS STOP



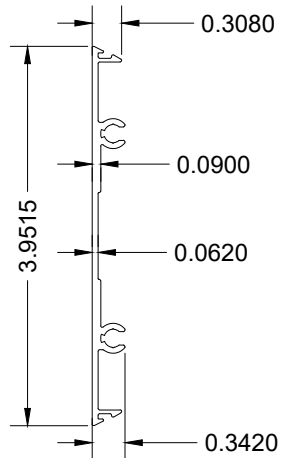
6 HEAD / SILL  
JAMB / INTERMEDIATE



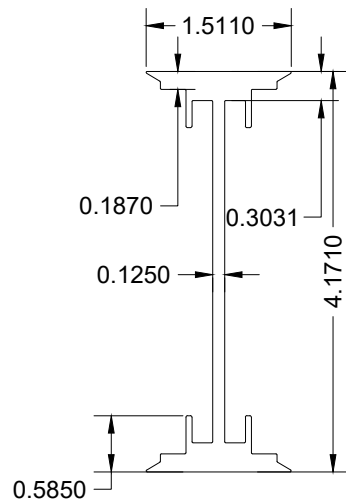
3 FIN SNAP



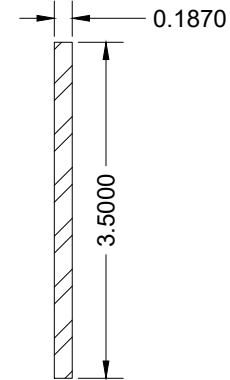
7 FIN SNAP



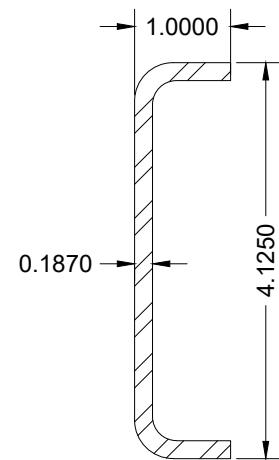
4 FLAT SNAP



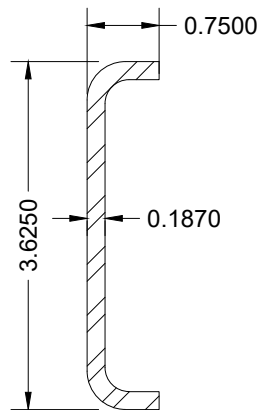
5 ALUM REINF.



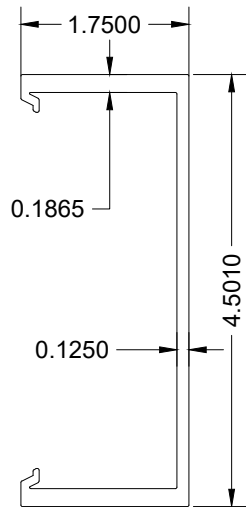
8 STEEL BAR  
REINF.



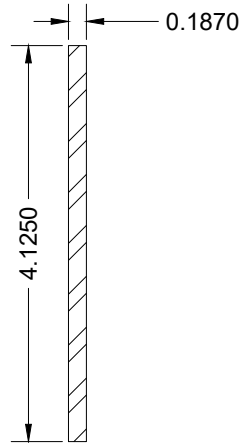
9 STEEL CHANNEL  
REINF.



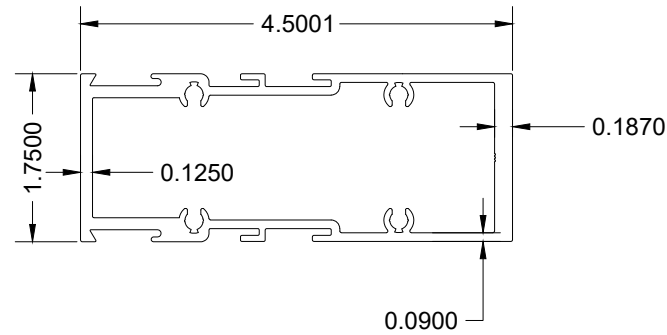
10 STEEL CHANNEL  
REINF.



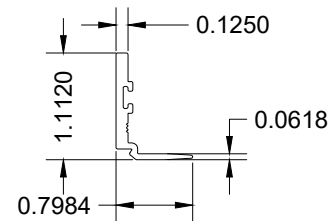
18 DOOR MULLION  
REINF.



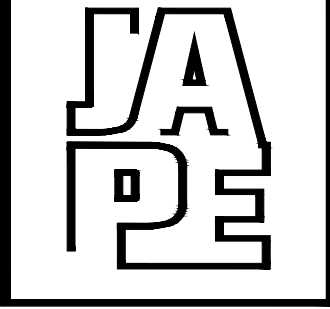
19 DOOR MULLION  
REINF.



20 O.G. FRAME HEAD /SILL  
JAMB /INTERMEDIATE



21 O.G. GLASS STOP



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| scale:      |      | N/A        |             |
| drawn by:   |      | M.S.       |             |
| check by:   |      |            |             |
| Drawing no. |      | JA-1144-25 |             |

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



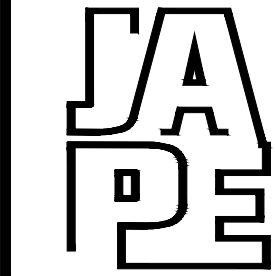
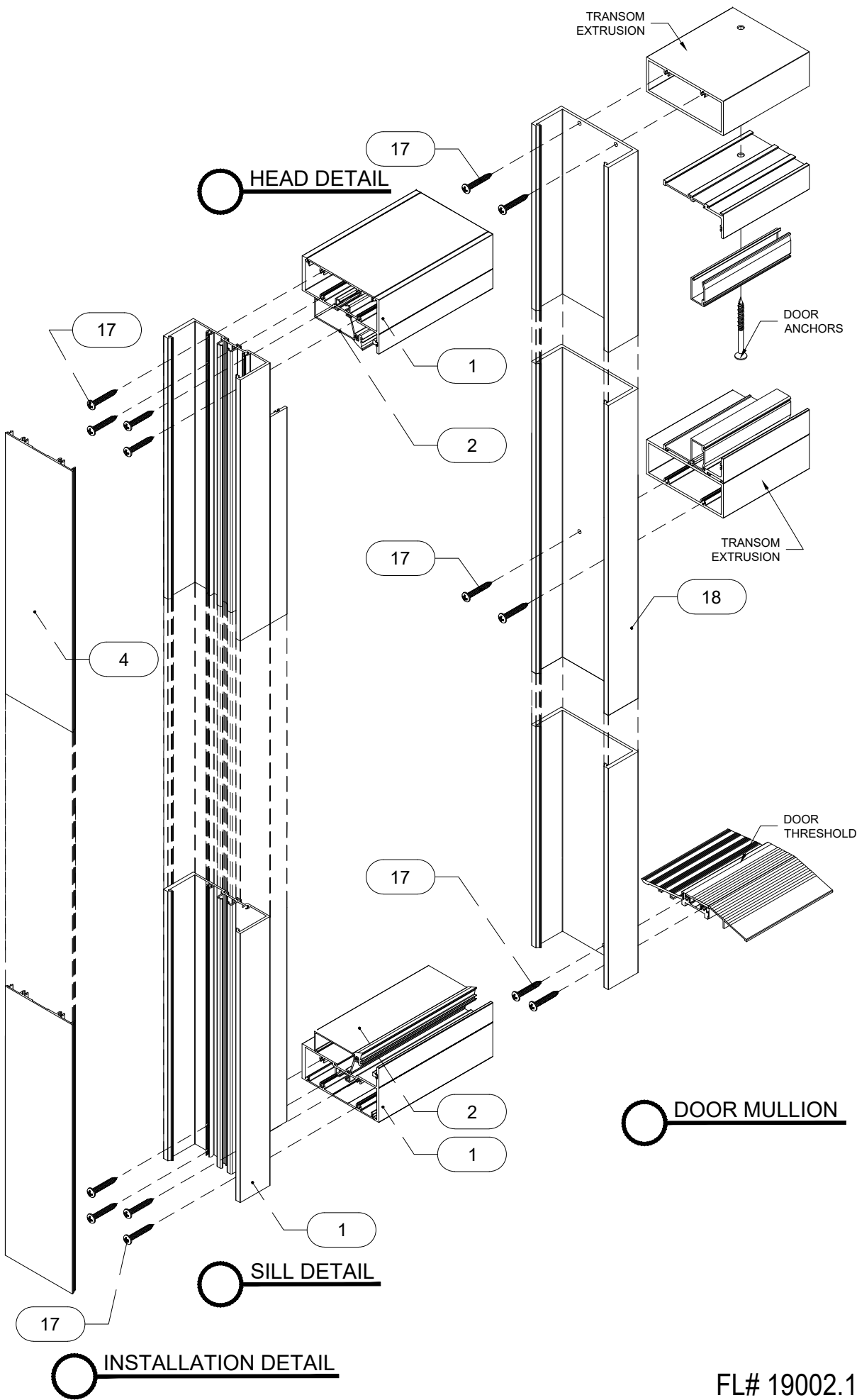
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PROFILES

SHEET No.  
14 OF 15

FL# 19002.1

| BILL OF MATERIAL |             |                        |                                                   |           |                            |
|------------------|-------------|------------------------|---------------------------------------------------|-----------|----------------------------|
| ITEM NO.         | PART NUMBER | QUANTITY               | DESCRIPTION                                       | MATERIAL  | MANF. / SUPPLIER / REMARKS |
| 1                | ENV-451     | AS REQD.               | HEAD/SILL/JAMB & INTERMIDATE                      | 6063-T6   | ENVIRALUM                  |
| 2                | ENV-452     | AS REQD.               | GLASS STOP                                        | 6063-T6   | ENVIRALUM                  |
| 2A               | ENV-458     | AS REQD.               | EXTEND GLASS STOP (OPTION TO ENV-452)             | 6063-T6   | ENVIRALUM                  |
| 2B               | ENV-4512    | AS REQD.               | EXTEND GLASS STOP (OPTION TO ENV-452)             | 6063-T6   | ENVIRALUM                  |
| 3                | ENV-453     | AS REQD.               | FN SNAP                                           | 6063-T6   | ENVIRALUM                  |
| 4                | ENV-454     | 1/ FREE STANDING FRAME | FLAT SNAP FULL LENGTH OF VERTICAL                 | 6063-T6   | ENVIRALUM                  |
| 4A               | ENV-454-3   | 1/ INSTALL SCREW       | FLAT SNAP, 3" LONG                                | 6063-T6   | ENVIRALUM                  |
| 4B               | ENV-454-7   | 1/ CORNER              | FLAT SNAP, 7" LONG                                | 6063-T6   | ENVIRALUM                  |
| 5                | ENV-455     | AS REQD.               | ALUMINUM REINFORCEMENT                            | 6063-T6   | ENVIRALUM                  |
| 6                | ENV-451T    | AS REQD.               | HEAD/SILL/JAMB & INTERMEDIATE (THERMAL)           | 6063-T6   | ENVIRALUM                  |
| 7                | ENV-453T    | AS REQD.               | FN SNAP (THERMAL)                                 | 6063-T6   | ENVIRALUM                  |
| 8                | ENV-ST1     | AS REQD.               | 3/16" X 3-1/2" BAR                                | STEEL     | Fy MIN. =36 KSI            |
| 9                | ENV-ST2     | AS REQD.               | 1" X 4-1/8" X 1" X 3/16" THK. CHANNEL             | STEEL     | Fy MIN. =36 KSI            |
| 10               | ENV-ST3     | AS REQD.               | 3/4" X 3-5/8" THK. CHANNEL                        | STEEL     | Fy MIN. =36 KSI            |
| 11               | ENV-G01     | AS REQD.               | INTERIOR GASKET                                   | EPDM      | GLAZING RUBBER PRODUCTS    |
| 12               | ENV-G03     | AS REQD.               | SPACER GASKET                                     | EPDM      | GLAZING RUBBER PRODUCTS    |
| 13               | ENV-SB01    | 1/ QUARTER POINT       | 3/8" X 1/2" X 2" SETTING BLOCKS, DUROMETER 70±5   | EPDM      | FRANK LOWE RUBBER          |
| 14               | ENV-SB02    | 1/ QUARTER POINT       | 3/8" X 1-1/4" X 2" SETTING BLOCKS, DUROMETER 70±5 | EPDM      | FRANK LOWE RUBBER          |
| 15               | DOW 791     | AS REQD.               | GLAZING COMPOUND                                  | SILICONE  | DOW CORNING                |
| 16               | GE SCS2000  | AS REQD.               | GLAZING COMPOUND                                  | SILICONE  | GE MOMENTIVE               |
| 17               | #12 X 1-1/2 | 4/ CORNER              | FRAME ASSEMBLY SCREWS                             | ST. STEEL | HWH SMS                    |
| 18               | ENV-355     | AS REQD.               | DOOR MULLION                                      | 6063-T6   | -                          |
| 19               | -           | AS REQD.               | 3/16" X 4" BAR FOR DOOR MULLION                   | STEEL     | Fy MIN. =36 KSI            |
| 20               | ENV-459     | AS REQD.               | O.G. FRAME HEAD/SILL/JAMB & INTERMEDIATE          | 6063-T6   | ENVIRALUM                  |
| 21               | ENV-4510    | AS REQD.               | O.G. GLASS STOP                                   | 6063-T6   | ENVIRALUM                  |



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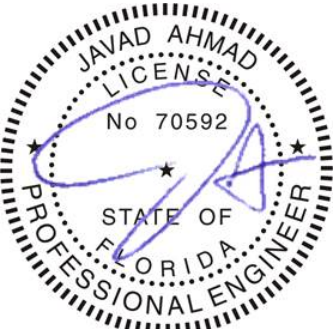
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