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**Product Approval**  
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OFFICE OF THE SECRETARY

FL #	FL46870-R1								
Application Type	Revision								
Code Version	2023								
Application Status	Approved								
Comments									
Archived	<input type="checkbox"/>								
Product Manufacturer	AA Impact Garage Door Inc								
Address/Phone/Email	2235 W 10th Court Hialeah, FL 33010 (305) 450-2993 evallejo@aaigd.com								
Authorized Signature	Eulices Alvarez evallejo@aaigd.com								
Technical Representative									
Address/Phone/Email									
Quality Assurance Representative									
Address/Phone/Email									
Category	Exterior Doors								
Subcategory	Sectional Exterior Door Assemblies								
Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer <input type="checkbox"/> Evaluation Report - Hardcopy Received								
Florida Engineer or Architect Name who developed the Evaluation Report	Javad Ahmad								
Florida License	PE-70592								
Quality Assurance Entity	Keystone Certifications, Inc.								
Quality Assurance Contract Expiration Date	02/10/2035								
Validated By	Ammad Riaz, P.E. <input checked="" type="checkbox"/> Validation Checklist - Hardcopy Received								
Certificate of Independence	<a href="#">FL46870_R1_COI_Certificate_of_Independence_JA-PE.pdf</a>								
Referenced Standard and Year (of Standard)	<table border="0"> <thead> <tr> <th><b>Standard</b></th> <th><b>Year</b></th> </tr> </thead> <tbody> <tr> <td>TAS 201</td> <td>1994</td> </tr> <tr> <td>TAS 202</td> <td>1994</td> </tr> <tr> <td>TAS 203</td> <td>1994</td> </tr> </tbody> </table>	<b>Standard</b>	<b>Year</b>	TAS 201	1994	TAS 202	1994	TAS 203	1994
<b>Standard</b>	<b>Year</b>								
TAS 201	1994								
TAS 202	1994								
TAS 203	1994								
Equivalence of Product Standards Certified By									
Sections from the Code									

Product Approval Method

Method 1 Option D

Date Submitted

02/14/2025

Date Validated

02/14/2025

Date Pending FBC Approval

02/19/2025

Date Approved

04/15/2025

**Summary of Products**

FL #	Model, Number or Name	Description
46870.1	Aluminum and Glass Sectional Garage Door 12'-0" (144") Max width (L.M.I.)	Aluminum and Glass Sectional Garage Door up to 12'-0" (144") Max width (L.M.I.)
<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> Yes <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> Yes <b>Design Pressure:</b> +50/-60 <b>Other:</b> See Drawing No. JA-1104.2-25, for anchor type and installation details.		<b>Installation Instructions</b> <a href="#">FL46870_R1_II_AAIGD-GARAGE DOOR 12ft-144in_MAX-JA-1104-25-SS.pdf</a> Verified By: Javad Ahmad PE# 70592 Created by Independent Third Party: Yes <b>Evaluation Reports</b> <a href="#">FL46870_R1_AE_AAIGD-Garage Door 12ft-144in_Max-LMI-PA_EVR.pdf</a> Created by Independent Third Party: Yes
46870.2	Aluminum and Glass Sectional Garage Door 16'-2" (194") Max width (L.M.I.)	Aluminum and Glass Sectional Garage Door up to 16'-2" (194") Max width (L.M.I.)
<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> Yes <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> Yes <b>Design Pressure:</b> +46/-55 <b>Other:</b> See Drawing No. JA-1104.1-25, for anchor type and installation details.		<b>Installation Instructions</b> <a href="#">FL46870_R1_II_AAIGD-GARAGE DOOR 16ft-194in_MAX-JA-1104-25-SS.pdf</a> Verified By: Javad Ahmad PE# 70595 Created by Independent Third Party: Yes <b>Evaluation Reports</b> <a href="#">FL46870_R1_AE_AAIGD-Garage Door 16ft-194in_Max-LMI-PA_EVR.pdf</a> Created by Independent Third Party: Yes
46870.3	Aluminum and Glass Sectional Garage Door 18'-4" (220") Max width (L.M.I.)	Aluminum and Glass Sectional Garage Door up to 18'-4" (220") Max width (L.M.I.)
<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> Yes <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> Yes <b>Design Pressure:</b> +46/-55 <b>Other:</b> See Drawing No. JA-1104-25, for anchor type and installation details.		<b>Installation Instructions</b> <a href="#">FL46870_R1_II_AAIGD-GARAGE DOOR 18ft-220in_MAX-JA-1104-25-SS.pdf</a> Verified By: Javad Ahmad PE# 70592 Created by Independent Third Party: Yes <b>Evaluation Reports</b> <a href="#">FL46870_R1_AE_AAIGD-Garage Door 18ft-220in_Max-LMI-PA_EVR.pdf</a> Created by Independent Third Party: Yes

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Contact Us :: 2601 Blair Stone Road, Tallahassee FL 32399 Phone: 850-487-1824

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Product Approval Accepts:





# PRODUCT EVALUATION REPORT

- Florida Building Code - 8th Edition (2023) -

Per Rule 61G20-3 / Method 1 - D

FL #: **46870.3**

DATE: 02/03/2025

## Product Description

**Manufacturer:** AA IMPACT GARAGE DOOR  
**Address:** 2235 W 10th Court, Hialeah, FL 33010  
**Model Name:** Aluminum and Glass Sectional Garage Door 18'-4" (220") Max. Width (L.M.I.)  
**Maximum Load:** +46.0 PSF / -55.0 PSF (Large Missile Impact)  
**Drawing No.:** JA-1104-25, signed and sealed by Javad Ahmad, P.E. - FL License No. 70592

This product COMPLIES with the 2023 Florida Building Code - 8th Edition (2023 FBC) for use in the High-Velocity Hurricane Zone (HVHZ) per TAS 201/202/203.

For maximum sizes, combination of span vs loads and anchor type refer to installation drawings.

Comparative Analysis used:  YES  NO

Mandatory Tests (Tested in accordance with AAMA 501 / 101 / I.S.2 / NAFS / TAS 202)					
TEST	DESCRIPTION	TEST LOCATION	TEST REPORT DATE	TEST REPORT #	TEST SEALED BY
TAS 202-94	Uniform Static Test	IFET, Inc.	05/01/2024	TR-IFET-23-0018.01	Arshad Viqar, P.E.
Supplemental Tests (Tested in accordance with TAS 201 and TAS-203)					
TEST	DESCRIPTION	TEST LOCATION	TEST REPORT DATE	TEST REPORT #	TEST SEALED BY
TAS 201-94	Impact Test (Large Missile Impact)	IFET, Inc.	05/01/2024	TR-IFET-23-0018.01	Arshad Viqar, P.E.
TAS 203-94	Cyclic Wind Pressure Load	IFET, Inc.	05/01/2024	TR-IFET-23-0018.01	Arshad Viqar, P.E.

Under the limitations of the attached installation drawings, to the best of my knowledge and ability, the above product conforms to the requirements of the 2023 Florida Building Code - 8th Edition (2023 FBC).



Sealed:  
02/03/2025

Evaluation Report Engineer:

**Javad Ahmad, PE**  
 FL P.E.# 70592  
 EB C.A.N. # 34254  
 JAVAD AHMAD PE, Inc.



February 03, 2025

**Product Approval Administrator**  
**Department of Business & Professional Regulations / Codes and Standards**  
2601 Blair Stone Road  
Tallahassee, FL 32399

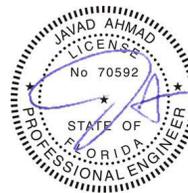
Ref: **Certificate of Independence JA-PE / AA IMPACT GARAGE DOOR, Inc.**

**To Whom It May Concern,**

In accordance with Rule 61G20-3, as the design engineer responsible for preparing the Product Approval(s) associated with this letter, I hereby declare that:

1. JAVAD AHMAD PE, INC does not have, nor does intend to acquire, or will acquire a financial interest in any company manufacturing or distributing products for which this evaluation report is issued.
2. JAVAD AHMAD PE, INC is not owned, operated, or controlled by any company manufacturing or distributing products for which this evaluation report is issued.
3. JAVAD AHMAD, PE does not have, nor will acquire, a financial interest in any company manufacturing or distributing products for which this evaluation report is issued.
4. JAVAD AHMAD, PE does not have, nor will acquire, a financial interest in any other entity involved in the approval process of the referenced product(s).

Sincerely,



Sealed: 02.03.2025

**Javad Ahmad, PE**  
FL P.E.# 70592  
EB C.A.N.# 34254

SHEET INDEX	
01	COVER PAGE
02	TYPICAL ELEVATIONS
03	GLASS DETAILS
04	ANCHOR DETAILS
05	SECTION DETAILS
06	SECTION DETAILS
07	TRACK DETAILS
08	PROFILES DETAILS
09	PROFILES DETAILS
10	HARDWARE DETAILS
11	INSTALLATION DETAILS

**ADDITIONAL DETAILS:**

FOR SPECIAL SITE CONDITION, CONTACT AA IMPACT GARAGE DOOR, INC.

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.

# ALUMINUM & GLASS SECTIONAL GARAGE DOOR 18'-4" (220") MAX. WIDTH (LARGE MISSILE IMPACT)

**GENERAL NOTES**

- 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.
- THE DESIGN PRESSURES OUTLINED IN THIS DOCUMENT ARE DERIVED FROM MAXIMUM TESTED PRESSURES AND INCORPORATE A 1.5 SAFETY FACTOR.
- THE PRESSURES PROVIDED IN THIS CERTIFICATION ARE DETERMINED USING THE ALLOWABLE STRESS DESIGN METHOD (ASD).
- 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.
- 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.
- 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.

- THE DETAILS OF THE SYSTEM PROVIDED HEREIN ARE OF A GENERIC NATURE AND DO 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.
- THE CONTRACTOR IS ACCOUNTABLE FOR INSULATING ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS (E.G., STEEL WITH ALUMINUM).
- 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.
- THE WOOD SCREWS REFERENCED IN THIS CERTIFICATION MUST MEET A MINIMUM GRADE OF 2 (fu = 74,000 PSI).
- 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.

- NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED BEYOND WHAT IS EXPRESSLY PROVIDED IN THIS DOCUMENT.
- ALTERATIONS, ADDITIONS, OR ANY MARKINGS TO THIS DOCUMENT ARE STRICTLY PROHIBITED AND WILL INVALIDATE THIS CERTIFICATION.
- PROPER SAFETY MEASURES MUST BE OBSERVED DURING THE INSTALLATION AND USE OF THIS SYSTEM, EVEN THOUGH THEY ARE NOT EXPLICITLY LISTED IN THIS CERTIFICATION.
- EACH PRODUCT SHALL BE PERMANENTLY LABELED WITH A MINIMUM OF ONE LABEL PER SYSTEM, CONTAINING THE FOLLOWING REQUIRED INFORMATION:  
AA IMPACT GARAGE DOOR, INC.  
2235 W 10TH CT,  
HIALEAH, FL 33010

FLORIDA PRODUCT APPROVAL FL# 46870.3  
**THIS PRODUCT IS APPROVED FOR IMPACT RESISTANT LEVEL 'D'**

**FL# 46870.3**



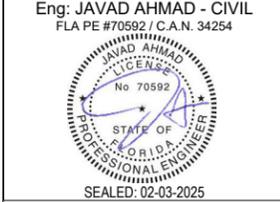
**JAVAD AHMAD PE, inc**  
8800 NW 23rd St, Miami FL 33172  
Ph: (305) 424-8001  
contact@ja-pe.com

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ALUM/GLASS SECTIONAL GARAGE DOOR 18'-4" (220") MAX. WIDTH(L.M.I)  
AA IMPACT GARAGE DOOR, INC.  
2235 W 10TH CT.  
HIALEAH, FL 33010  
PHONE: 305.450.2993

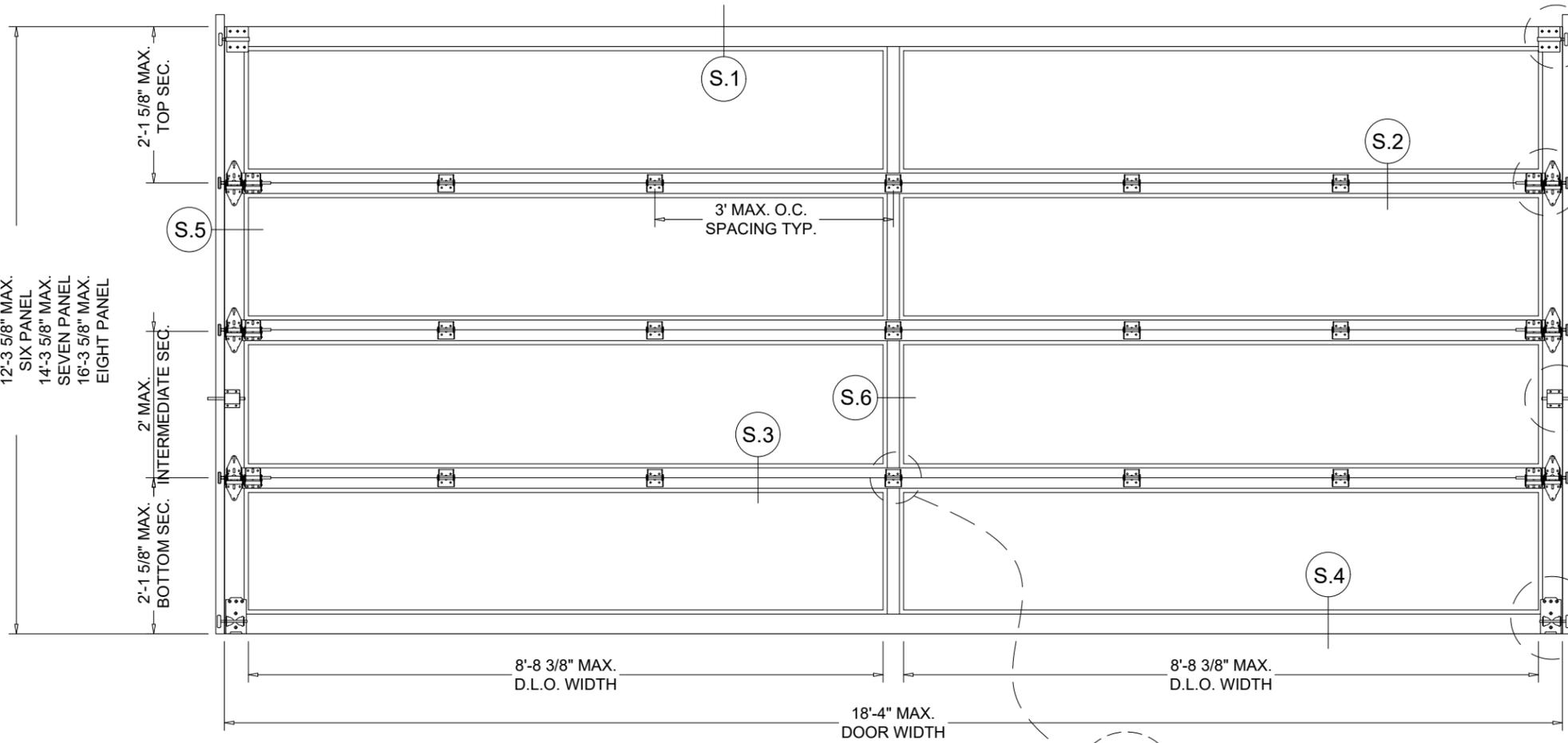
REVISION	No.	DATE	BY	DESCRIPTION

date:	scale:	drawn by:	check by:	M.S.	H.T.	DRAWING NO.
12-20-2024						JA-1104-25



# TYPICAL ELEVATION

- 8'-3 5/8" MAX. FOUR PANEL (AS SHOWN)
- 10'-3 5/8" MAX. FIVE PANEL
- 12'-3 5/8" MAX. SIX PANEL
- 14'-3 5/8" MAX. SEVEN PANEL
- 16'-3 5/8" MAX. EIGHT PANEL



- 5-1/2" X 2-3/4" X 14 GA. GALV. STEEL TOP BRACKET W/ (6) #14 X 3/4" HWH SELF DRILLING SCREWS
- 7-1/4" X 2-5/8" X 14 GA. GALV. STEEL END ROLLER HINGE W/ (4) #14 X 3/4" HWH SELF DRILLING SCREWS

- PUSH NUT
- 2 PER DOOR
- 1" W X .15 THK. LATCH
- STANDARD LOCK SPRING LOADED SLIDE BOLT (BOTH SIDES) FASTENED W/ (4) #14 X 3/4" HWH SELF DRILLING SCREWS 5/8" MIN. LOCK ENGAGEMENT CONFORMS TO SECTION 1008 REGARDING GARAGE DOOR

- .158 DIA. GALV. STEEL CABLE & NICO-PRESS SLEEVE W/ MIN. 5 TO 1 SAFETY FACTOR
- 7-7/8" X 3-1/8" X 14 GA. GALV. STEEL PLATE WITH (4) #14 X 3/4" HWH SDS

- 2.740" X 2.830" X 14 GA. GALV. STEEL HINGE W/ (4) #14 X 3/4" HWH SELF DRILLING SCREWS

## GENERAL NOTES:

- A. THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; i.e. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.E.D.
- B. 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.
- C. THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
- D. 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.
- E. THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

## ALUMINUM/GLASS SECTIONAL GARAGE DOOR

THIS DOOR IS RATED FOR LARGE MISSILE IMPACT.  
 MAX. FRAME AND GLASS DIMENSIONS AS SHOWN ON TYPICAL ELEVATION. SEE GLASS SPECS ON SHEET #03  
 MAX. ALLOWABLE PRESSURES = +46.0 / -55.0 PSF



**JAVAD AHMAD PE, inc**  
 8800 NW 23rd St, Miami FL 33172  
 Ph: (305) 424-8001  
 contact@ja-pe.com

ALUM/GLASS SECTIONAL GARAGE DOOR 18'-4" (220") MAX. WIDTH (L.M.I.)  
 AA IMPACT GARAGE DOOR, INC.  
 2235 W 10TH CT.  
 HIALEAH, FL 33010  
 PHONE: 305.450.2993

REVISION		DESCRIPTION
No.	DATE	BY

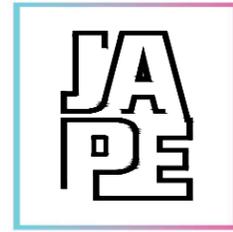
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check by:						

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

SEALED: 02-03-2025

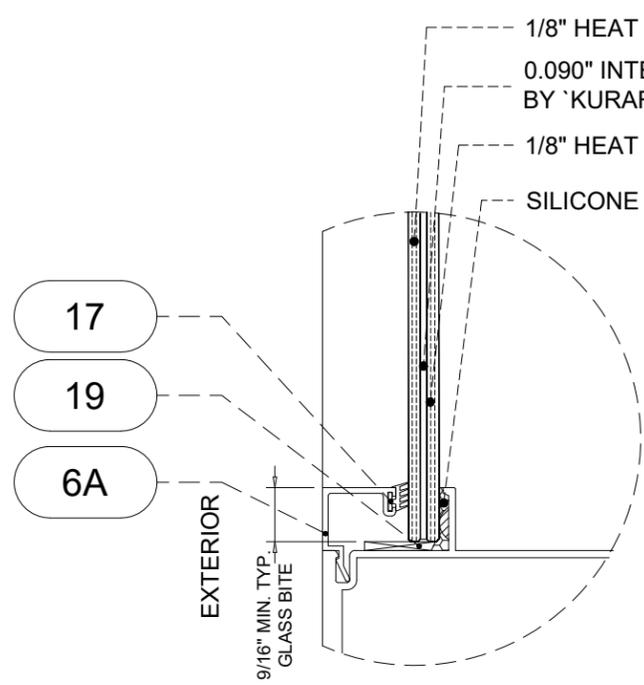
FL# 46870.3

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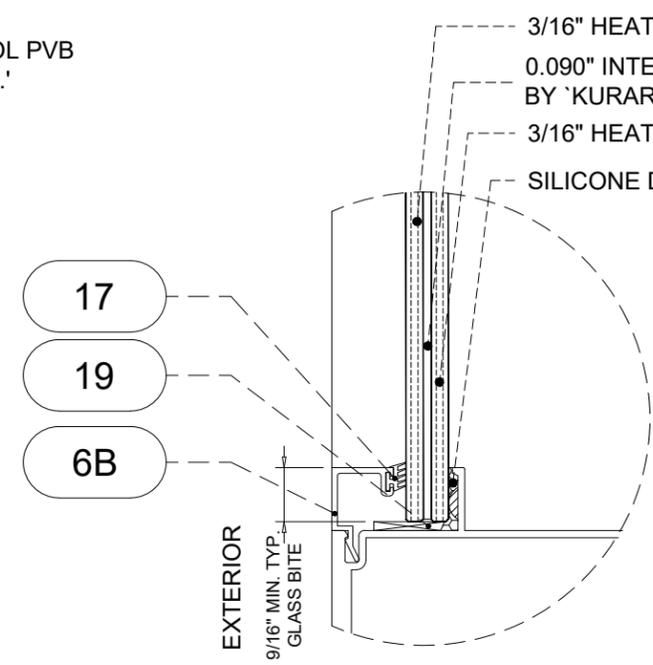


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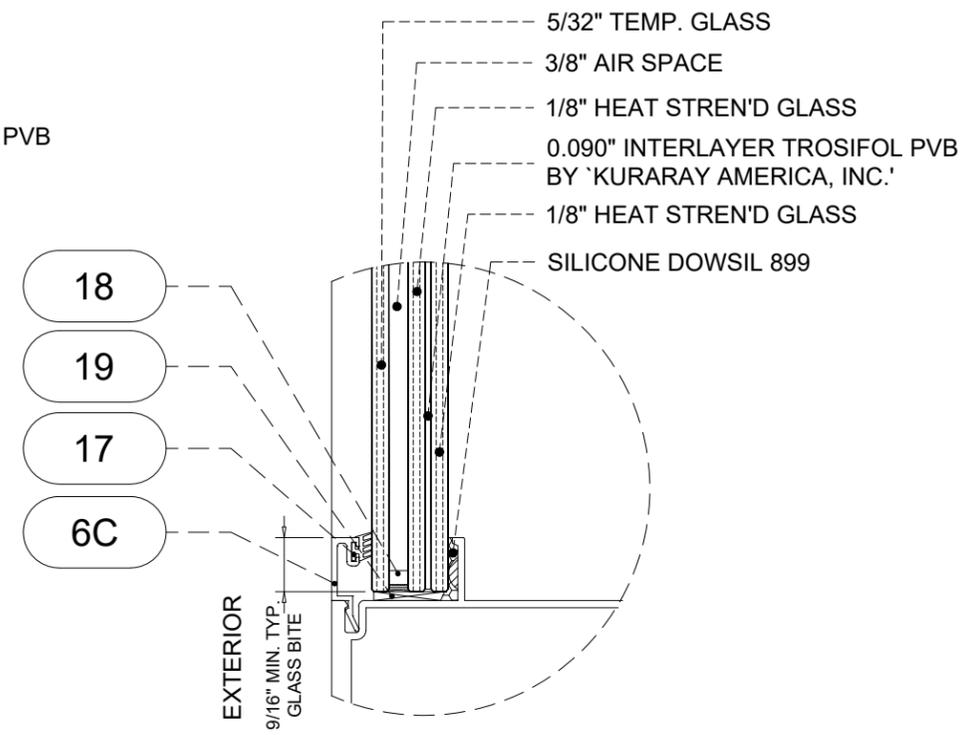
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○ 5/16" LAM. GLASS  
 GLASS TYPE 'G1'



○ 7/16" LAM. GLASS  
 GLASS TYPE 'G2'



○ 13/16" INSUL. LAM. GLASS  
 GLASS TYPE 'G3'

ALUM/GLASS SECTIONAL  
 GARAGE DOOR 18'-4" (220")  
 MAX. WIDTH(L.M.I)  
 AA IMPACT GARAGE DOOR, INC.  
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date: 12-20-2024  
 scale:  
 drawn by: M.S.  
 check by: H.T.  
 DRAWING NO.  
 JA-1104-25

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

SEALED: 02-03-2025

GLASS DET. SHEET No. 03 OF 11

FL# 46870.3

## SYSTEM ANCHORS:

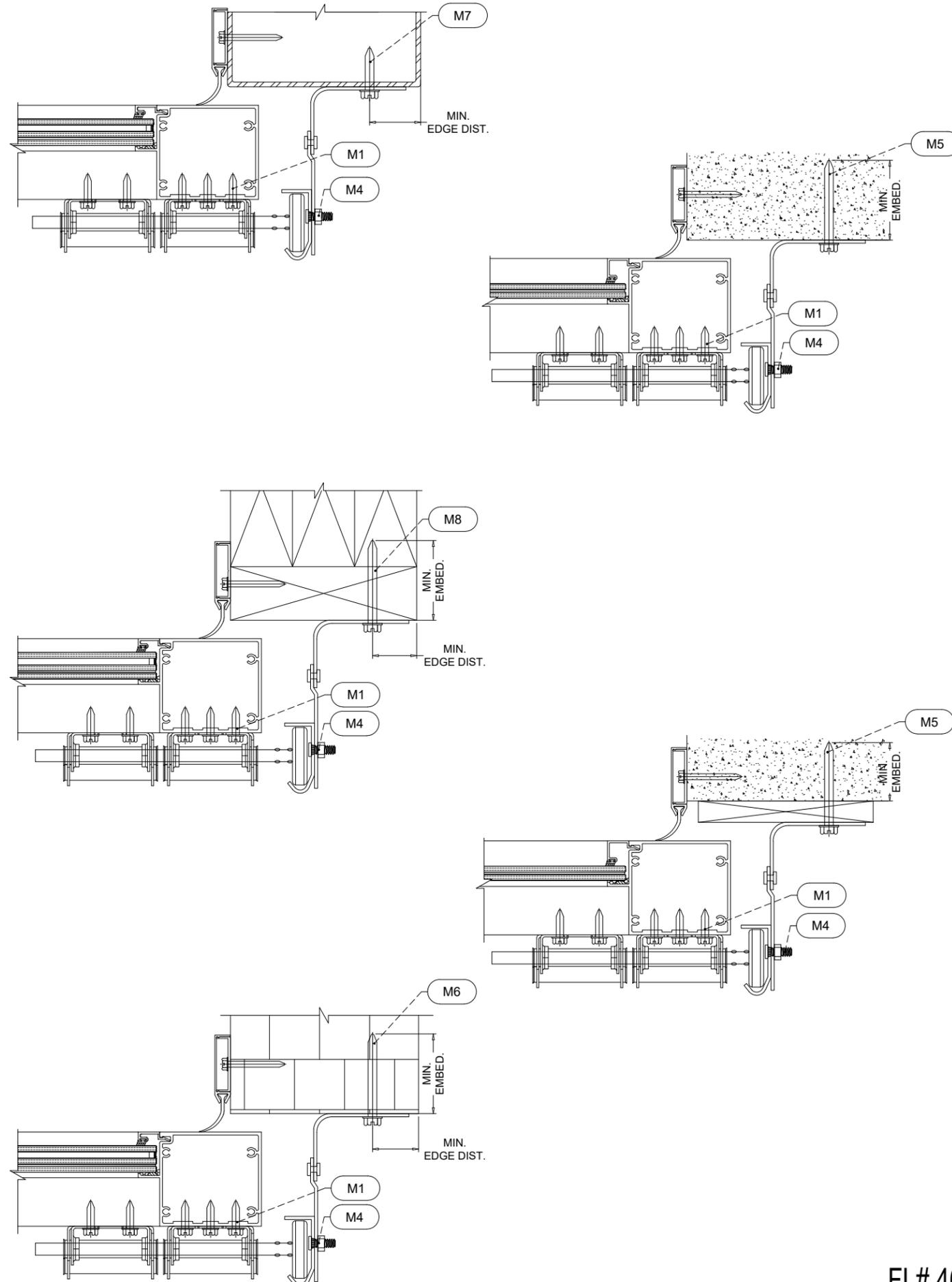
- M1** 1/4" DIA. TEKS OF SELF DRILLING SCREWS (GALVANIZED STEEL)  
WITH (3) THREAD MIN. PENETRATION BEYOND 1/8" MIN. THK. METAL  
1/2" MIN. METAL E.D.
- M2** #10 SMS OR SELF DRILLING SCREWS (316 STAINLESS STEEL)  
WITH (3) THREAD MIN. PENETRATION BEYOND 1/8" MIN. THK. METAL  
1/2" MIN. METAL E.D.  
(3) ON EACH SIDE @ 5/8" O.C. SPACING
- M3** #8 SMS FH UNDERCUT SCREWS (316 STAINLESS STEEL)  
WITH (3) THREAD MIN. PENETRATION BEYOND 1/8" MIN. THK. METAL  
1/2" MIN. METAL E.D.  
(4) SCREWS AT EACH CONNECTION.
- M4** #1/4-20 X 9/16" CARRIAGE BOLT WITH WASHERED NUT  
AT 4" MAX. FROM ENDS.  
6" O.C. MAX.

## SUBSTRATE ANCHORS:

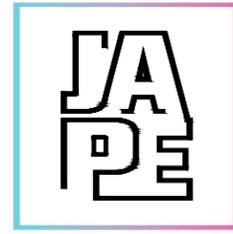
- M5** 5/16" DIA. ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI)  
THRU 1BY OR 2BY BUCKS INTO CONCRETE  
2" MIN. EMBED. INTO CONCRETE  
4" FROM BOTTOM AND 6" O.C. MAX.  
  
DIRECTLY INTO CONCRETE  
2" MIN. EMBED INTO CONCRETE  
4" FROM BOTTOM AND 6" O.C. MAX.
- M6** 3/8" DIA. KWIK BOLT 3 EXPANSION ANCHOR BY 'HILTI'  
DIRECTLY INTO MASONRY  
2-1/2" MIN. EMBED INTO FILLED BLOCKS  
AT 4" FROM BOTTOM AND 6" O.C. MAX.
- M7** 5/16" DIA. DRIL-FLEX SCREWS BY 'DEWALT' (Fu=100 KSI, Fy=65 KSI)  
INTO METAL STRUCTURES  
STEEL: 1/8" THK. MIN. (Fy=36 KSI MIN.)  
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)  
AT 4" FROM BOTTOM AND 6" O.C. MAX.
- M8** 5/16" DIA. LAG SCREWS BY 'DEWALT'  
INTO WOOD STRUCTURES  
2" MIN. PENETRATION INTO WOOD  
AT 4" FROM BOTTOM AND 6" O.C. MAX.

## SUBSTRATE EDGE DISTANCE:

INTO CONCRETE = 3-1/8" MIN.  
INTO FILLED BLOCKS = 4" MIN.  
INTO WOOD STRUCTURES = 1-1/2" MIN.  
INTO METAL STRUCTURE = 1" MIN.  
  
WOOD SG = 0.55 MIN.  
CONCRETE  $f_c$  = 3000 PSI MIN.  
C-90 GROUT FILLED BLOCK  $f_m$  = 2000 PSI MIN.



FL# 46870.3



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ALUM/GLASS SECTIONAL  
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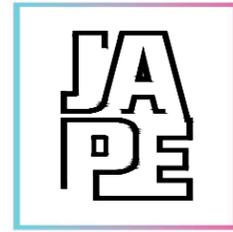
Eng: JAVAD AHMAD - CIVIL  
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ANCHORS SHEET No.  
04 OF 11

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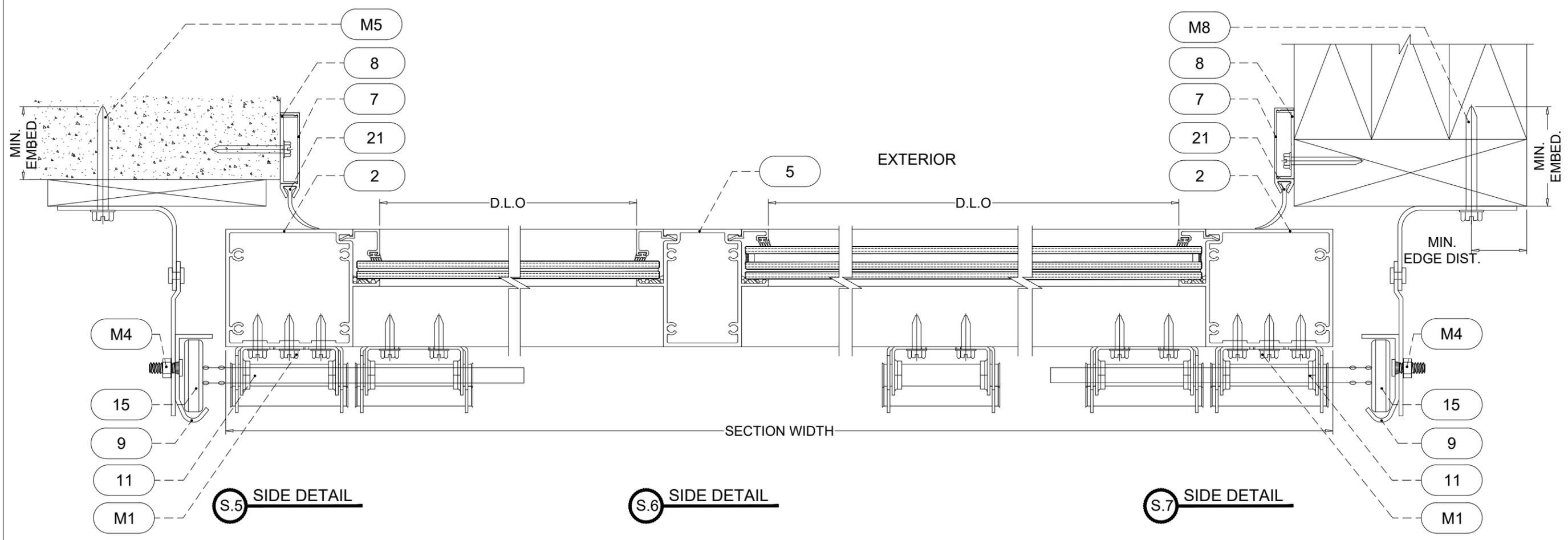




**JAVAD AHMAD PE, inc**  
 8800 NW 23rd St, Miami FL 33172  
 Ph: (305) 424-8001  
 contact@ja-pe.com

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ALUM/GLASS SECTIONAL GARAGE DOOR 18'-4" (220") MAX. WIDTH (L.M.I.)  
 AA IMPACT GARAGE DOOR, INC.  
 2235 W 10TH CT.  
 HIALEAH, FL 33010  
 PHONE: 305.450.2993



REVISION No.	DATE	BY	DESCRIPTION

date:	12-20-2024	scale:		drawn by:	M.S.	check by:	H.T.	DRAWING NO.	JA-1104-25
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 FLA PE #70592 / C.A.N. 34254

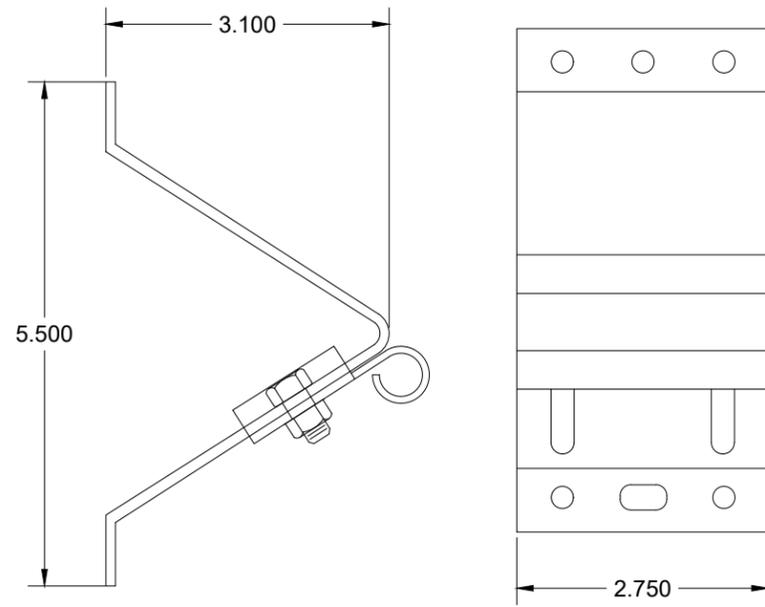
SEALED: 02-03-2025

FL# 46870.3

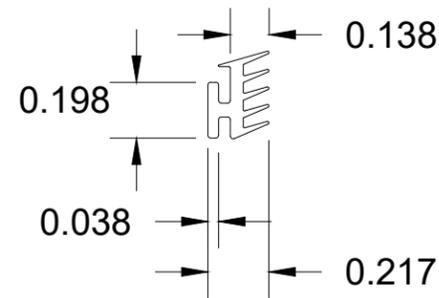
SEC. DETAILS SHEET No. 06 OF 11







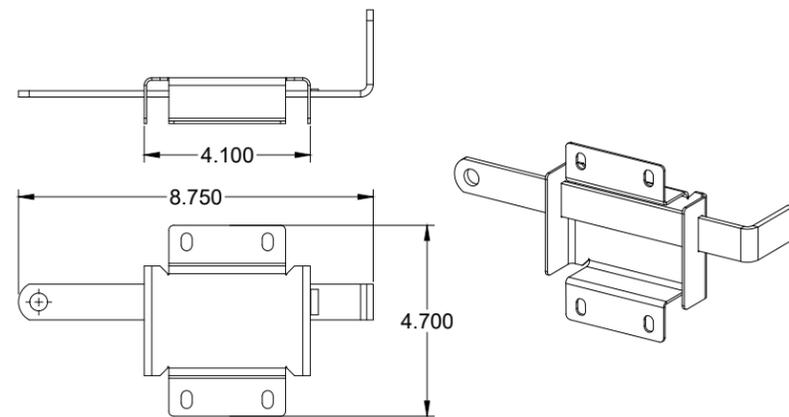
**12 TOP FIXTURE**



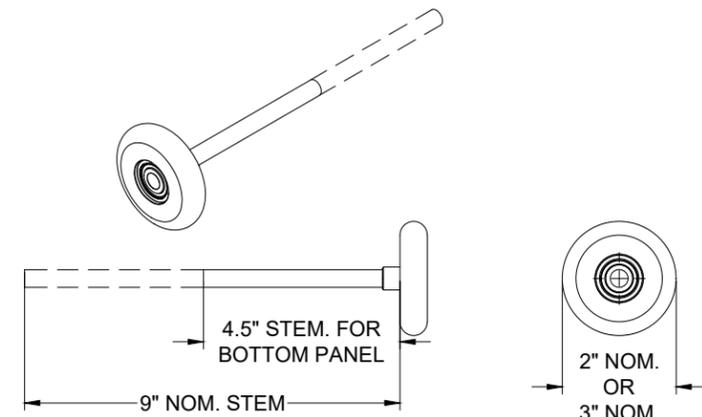
**17 GLAZING GAKET**

BASE POLYMER = EPDM RUBBER  
 DENSITY = 10.26 Lbs/Gal  
 HARDNESS = 80±5  
 TENSILE STRENGTH = 905 PSI  
 ELONGATION AT BREAK = 273%  
 TEAR STRENGTH = 1.343 Kip/ft  
 BRITTLENESS TEMPERATURE = -40° F  
 COMPRESSION SET = 27% (22h@158° F)

BILL OF MATERIALS					
ITEM NO.	PART NO.	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	AA-101	2	TOP SECTION TOP RAIL & BOTTOM SECTION BOTTOM RAIL	6063-T6	-
2	AA-102	2	VERTICAL STILE	6063-T6	-
3	AA-103	AS REQD.	INTERMEDIATE RAIL	6063-T6	-
4	AA-104	AS REQD.	RAIL STIFFENER	6063-T6	-
5	AA-105	AS REQD.	DIVIDER STILE	6063-T6	-
6A	AA-106	AS REQD.	GLASS STOP (5/16" GLASS)	6063-T6	-
6B	AA-107	AS REQD.	GLASS STOP (7/16" GLASS)	6063-T6	-
6C	AA-108	AS REQD.	GLASS STOP (INSUL. LAM. GLASS)	6063-T6	-
7	AA-109	AS REQD.	JAMB SEAL	6063-T6	-
8	AA-110	AS REQD.	JAMB SEAL BASE	6063-T6	-
9	-	2	DOOR TRACK (2" OPTION)	GALV. STEEL	-
9A	-	2	DOOR TRACK (3" OPTION)	GALV. STEEL	-
10	-	AS REQD.	JAMB ANGLE	GALV. STEEL	Fy MIN. = 42 KSI
11	-	AS REQD.	ROLLER HINGES	GALV. STEEL	-
12	-	2	TOP BRACKET	GALV. STEEL	-
13	-	2	BOTTOM FIXTURE	GALV. STEEL	-
14	-	2	STANDARD LOCK	-	-
15	-	AS REQD.	ROLLER WITH STEM	STEEL	-
16	-	2	5/32" SPRING LIFT CABLE	GALV. STEEL	-
17	-	AS REQD.	GLAZING GASKET	EPDM	DUROMETER 80±5 SHORE A
18	-	-	GLASS SPACER	SILICONE	FRANK LOWE RUBBER CO.
19	-	2/ LITE	SETTING BLOCK, 1/8" X 3/4" X 4" LONG	EPDM	AT 6" FROM EACH END, DUROMETER 65±5
20	-	-	BULB W'STRIPPING	SANTOPRENE	EPDM
21	-	-	LEAF W'STRIPPING	SANTOPRENE	EPDM
22	-	-	BOTTOM SECTION SEAL	SANTOPRENE	EPDM
M1	#14 X 3/4"	AS REQD.	ROLLER HINGES FASTENERS	GALV. STEEL	HWH SELF DRILLING SCREWS
M2	#14 X 3/4"	6/ BRACKET	BRACKET FASTENERS	GALV. STEEL	HWH SELF DRILLING SCREWS
M3	#12 X 2"	AS REQD.	ASSEMBLY FASTENERS	ST. STEEL	PH SMS
M4	1/4-20 X 9/16"	AS REQD.	CARRIAGE BOLT WITH WASHERED NUT	STEEL	-
M5	-	AS REQD.	5/16" DIA. ULTRACON	-	DEWALT
M6	-	AS REQD.	3/8" DIA. KWIK BOLT 3 EXPANSION ANCHOR	-	HILTI
M7	-	AS REQD.	5/16" DIA. DRIL-FLEX ANCHORS	410 STAINLESS STEEL	-
M8	-	AS REQD.	5/16" DIA. LAG SCREWS	STEEL	DEWALT

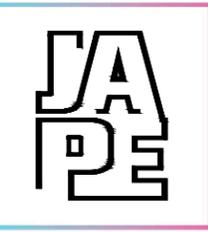


**18 SLIDE LOCK BOX & ASSM.**



**19 ROLLER**

FL# 46870.3



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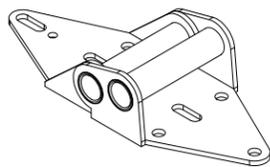
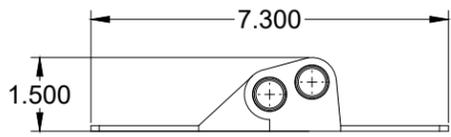
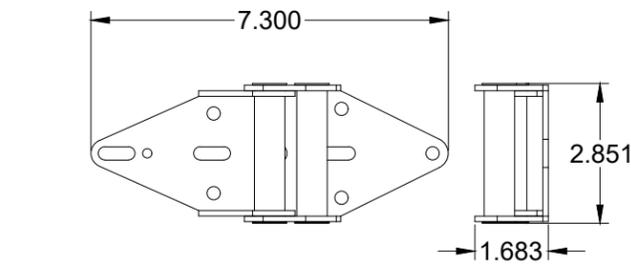
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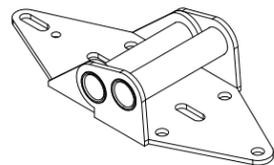
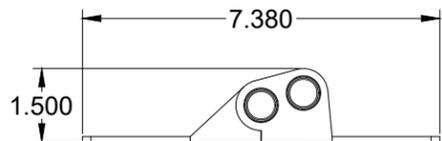
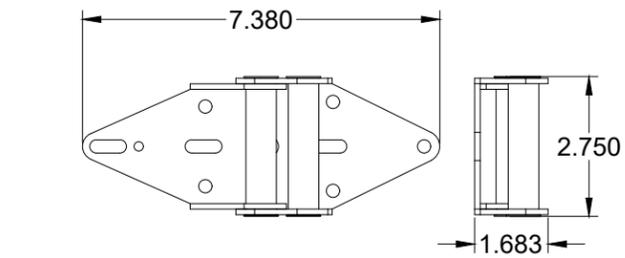
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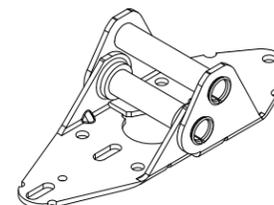
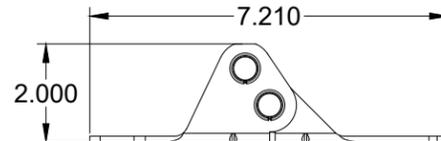
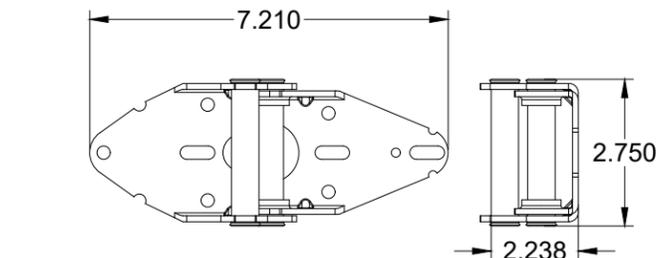
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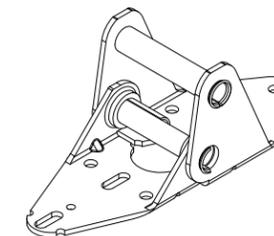
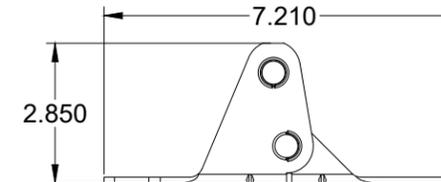
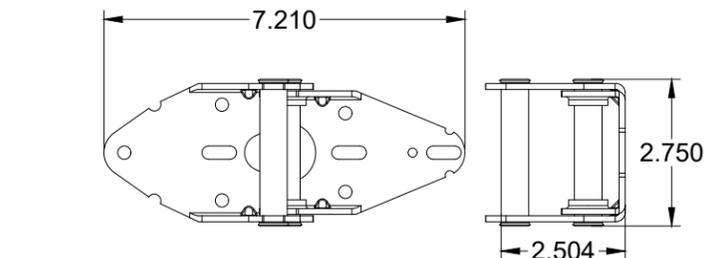
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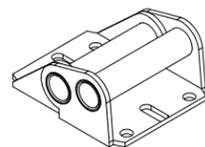
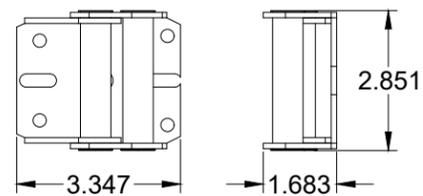
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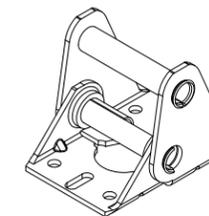
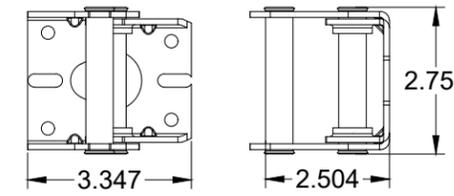
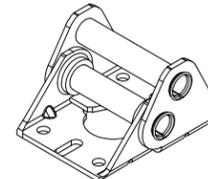
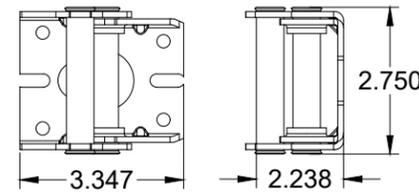
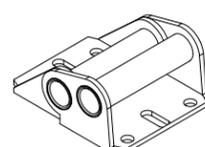
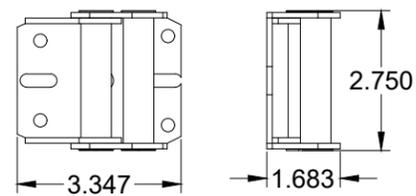
**#4 ROLLER HINGE**



**#5 ROLLER HINGE**



**CUT DOWN HINGES**



FL# 46870.3



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33172

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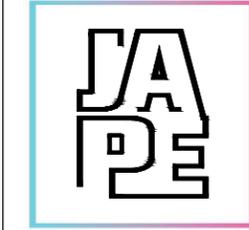
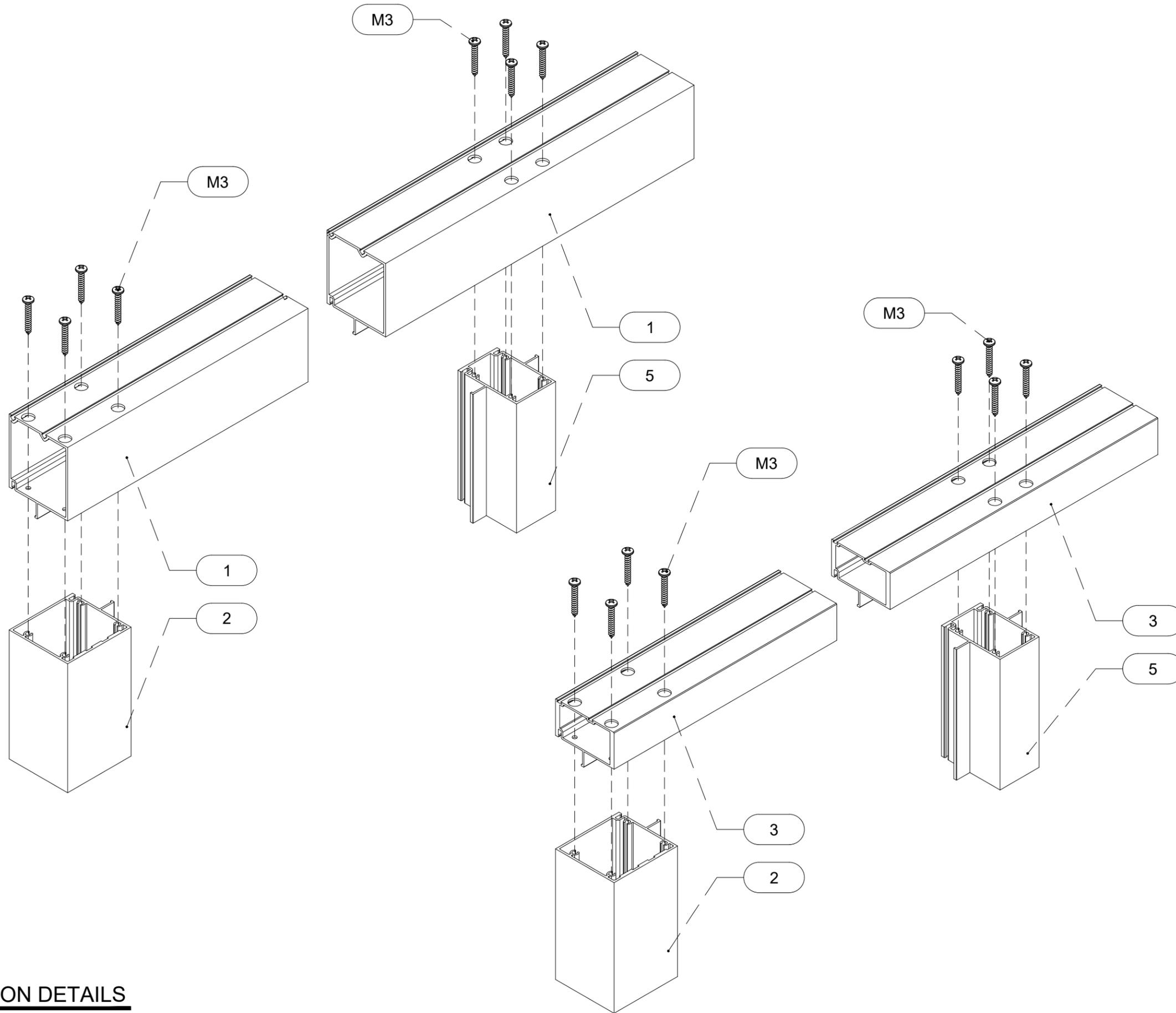
Eng: JAVAD AHMAD - CIVIL  
FLA PE #70592 / C.A.N. 34254



SEALED: 02-03-2025

HRDW	SHEET No. 10 OF 11
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# INSTALLATION DETAILS



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INST. DET	SHEET No. 11 OF 11
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