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15	MISC. HARDWARE

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 ES-NT7080
ALUMINUM SLIDING GLASS DOOR
(LARGE MISSILE IMPACT)

FL# 48399

GENERAL NOTES

1. THIS SYSTEM PRESENTED HEREIN HAS UNDERGONE DESIGN AND TESTING IN FULL COMPLIANCE WITH THE FLORIDA BUILDING CODE EIGHTH EDITION (2023) AND NINTH EDITION (2026) 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 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.

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. **MATERIAL SELECTION AND CORROSION PROTECTION SHALL BE VERIFIED FOR THE APPLICABLE COASTAL DISTANCE AND EXPOSURE CONDITION IN ACCORDANCE WITH SECTION 1711 AND TABLE 1711.1 OF THE 2026 FLORIDA BUILDING CODE**

CORROSION PROTECTION: ANCHORS AND ALL RELATED ATTACHMENT HARDWARE SHALL BE MANUFACTURED FROM CORROSION-RESISTANT MATERIALS OR PROTECTED BY AN APPROVED CORROSION-RESISTANT FINISH. FOR INSTALLATIONS WITHIN 3,000 FEET OF A SALTWATER COASTLINE, PROVIDE THE FOLLOWING:

- **A. FASTENERS INSTALLED IN ENCLOSED SPACES SHALL BE GALVANIZED TO ASTM A153, CLASS D; ASTM A641, CLASS 3S; OR PROVIDED WITH EQUIVALENT CORROSION PROTECTION.**
- **B. CONNECTORS AND METAL PLATES SHALL HAVE A STANDARD GALVANIZED FINISH COMPLYING WITH ASTM A653, G90; ASTM A123; OR AN APPROVED PROTECTIVE COATING COMPLYING WITH TPI 1.**

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PROJECT :

SERIES ES-NT7080
ALUMINUM SLIDING GLASS DOOR
(LARGE MISSILE IMPACT)

CLIENT :

ES imagine extraordinary
ES WINDOWS, LLC
3550 NW 49TH STREET
MIAMI, FL 33142
TEL. (305) 638-5151 | FAX. (305) 638-5158

REVISION

No.	DATE	BY	DESCRIPTION
0			

date:	8/27/2026
scale:	N/A
drawn by:	M.S.
check by:	
Drawing no.	JA-1592-26

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

JAVAD AHMAD LICENSE No 70592 STATE OF FLORIDA PROFESSIONAL ENGINEER

SEALED: 10/15/2026

COVER PAGE

SHEET No. 01 OF 15

FL# 48399

GENERAL NOTES:

A. APPROVAL APPLIES TO STAND ALONE DOOR UNITS OR IN COMBINATION WITH APPROVED SIDELITES OR SIDE BY SIDE COMBINATIONS WITH OTHER F.B.C APPR'D WINDOWS / DOOR USING F.B.C. APPROVED MULLIONS IN BETWEEN.

B. LOWER DESIGN PRESSURE FROM DOORS / SIDELITES WILL APPLY TO ENTIRE SYSTEM.

C. THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2023 (8TH EDITION) & 2026 (9TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

D. 1BY OR 2BY WOOD BUCKS & BUCKS FASTENERS BY OTHER,MUST BE DESIGNED AND INSTALLED ADEQUATELY TO TRANSFER APPLIED PRODUCT LOADS TO THE BUILDING STRUCTURE.

E. ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

F. A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

G. ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

H. MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2023 & 2026 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

I. THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC.

J. CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL.

K. DESIGN LOADS SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)' FOR EQUIVALENT LOADS IN 'LOAD AND RESISTANCE FACTOR DESIGN (LRFD)' MULTIPLY 'ASD' LOADS BY 1.67 (ASD LOAD X 1.67 = LRFD LOAD)

L. MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE LABELING TO COMPLY WITH SECTION 1709.9.2.

INSTRUCTIONS:

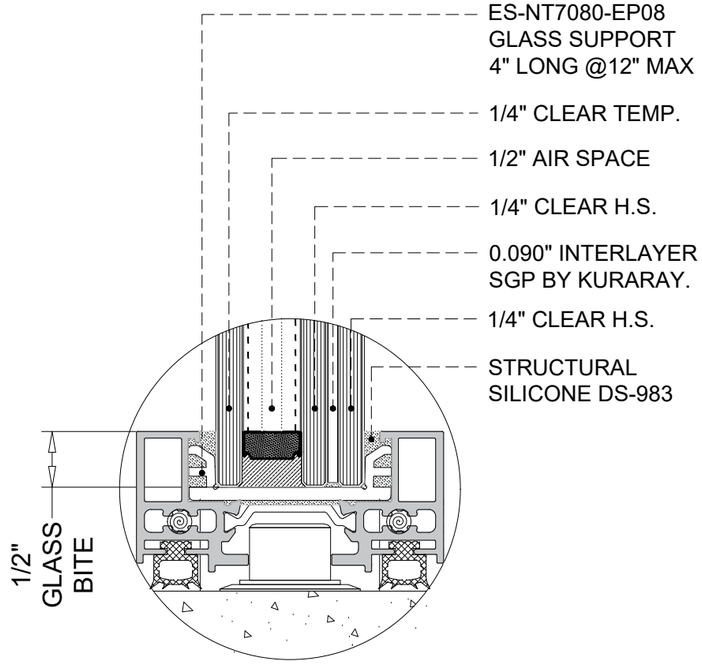
STEP 1: DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.

STEP 2: SEE GLASS SPECIFICATIONS ON SHEET 2.

STEP 3: CHECK SLIDING GLASS DOOR INTERLOCK CAPACITY FOR GIVEN WIDTHS AND HEIGHTS USING CHARTS ON SHEETS 5.

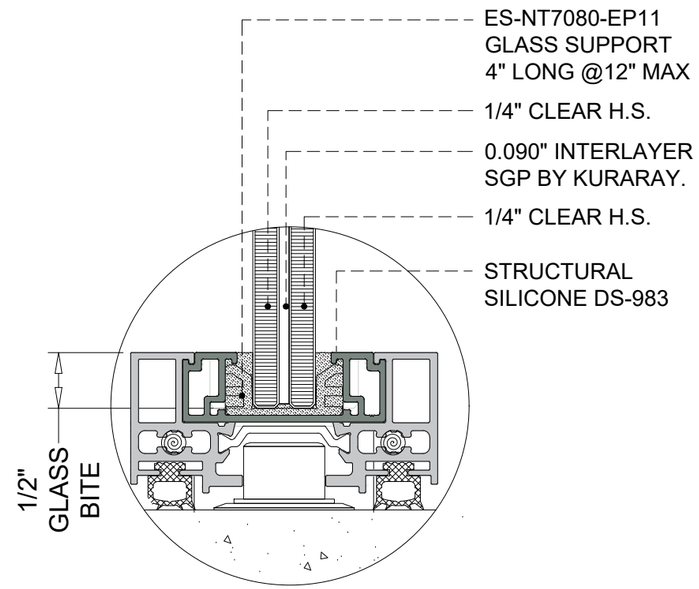
STEP 4: CHECK ANCHOR SPECIFICATIONS AND CAPACITY FOR SLIDING GLASS DOOR SYSTEMS USING ANCHOR SPECIFICATIONS AND CHARTS ON SHEETS 06 AND 07 RESPECTIVELY.

STEP 5: THE LOWEST VALUE RESULTING FROM STEP 2, 3 AND 4 SHALL APPLY TO THE ENTIRE SYSTEM.



GLASS TYPE 'G1-SGD'

1–5/16" OVERALL
INSULATED LAMINATED GLASS



GLASS TYPE 'G2-SGD'

9/16" OVERALL
LAMINATED GLASS

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Drawing no.	JA-1592-26

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JAVAD AHMAD LICENSE No 70592 STATE OF FLORIDA PROFESSIONAL ENGINEER

SEALED: 10/15/2026

GLAZING DETAILS

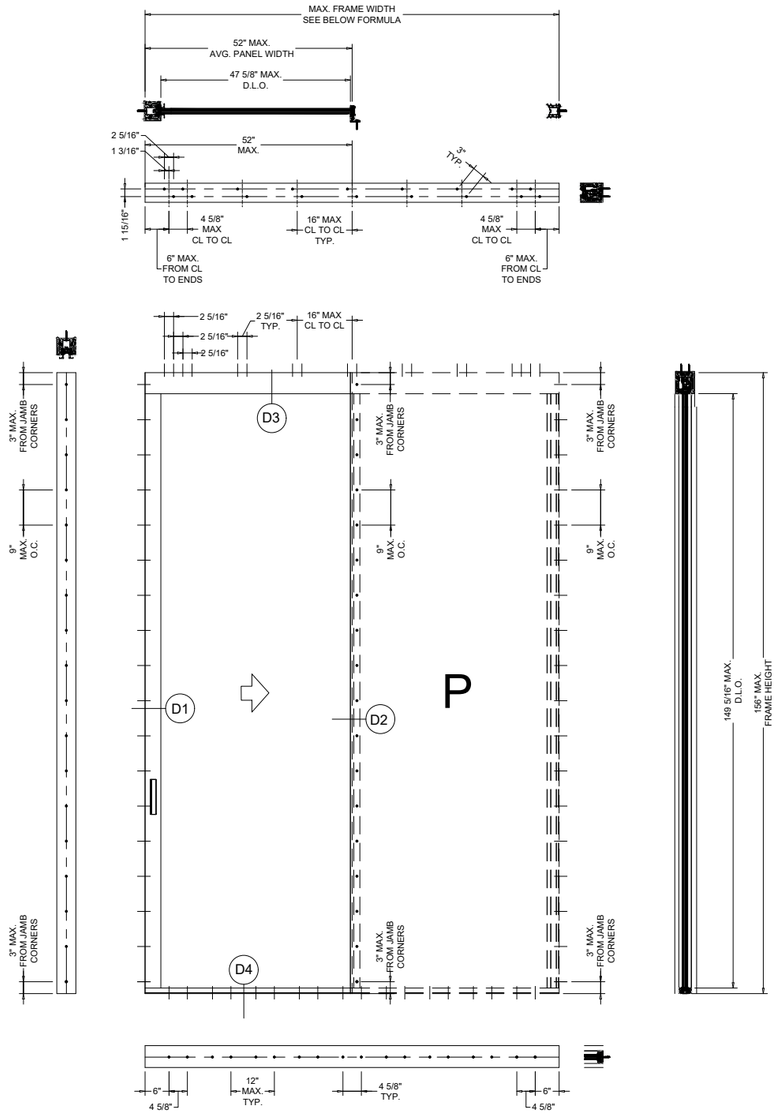
SHEET No.
02 OF 15

1-TRACK SYSTEM

FL# 48399

NOTES:

SEE SHEETS 05 & 07
FOR DETAILED PRESSURE CHARTS.



TYPICAL ELEVATION
X-P

OTHER APPROVED CONFIGURATION
P-X

NOTES:

- MAX. FRAME WIDTH = AVG. PANEL WIDTH X TOTAL NUMBER OF PANELS
- NO. OF PANELS NOT TO EXCEED APPROVED DOOR CONFIGURATIONS
- SYSTEM IS RATED FOR LARGE & SMALL MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.

SEALANT

ALL WINDOW STOP,DRIP CAP,FRAME CORNERS, JOINT, MULLION SEAMS AND GLAZING BEAD TO FRAME SEALED WITH SILICONE SEALANT.

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SEALED: 10/15/2026

TYP. ELEV.

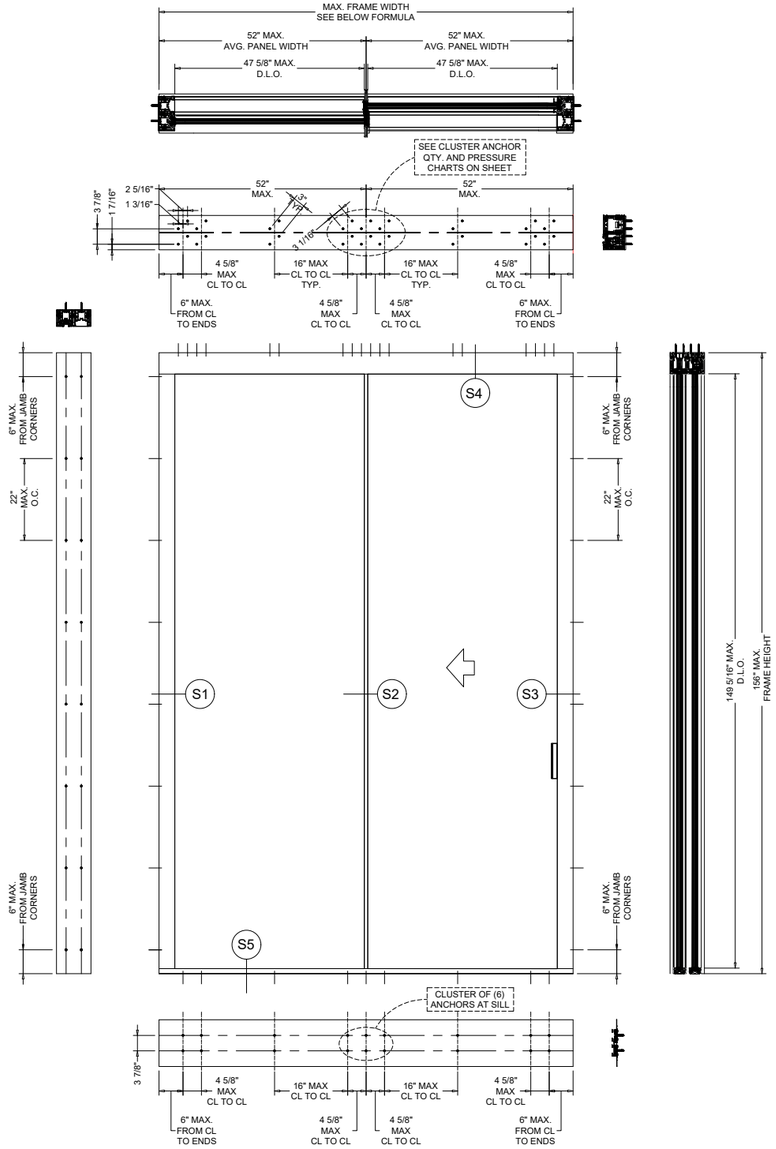
SHEET No.
03 OF 15

2-TRACK SYSTEM

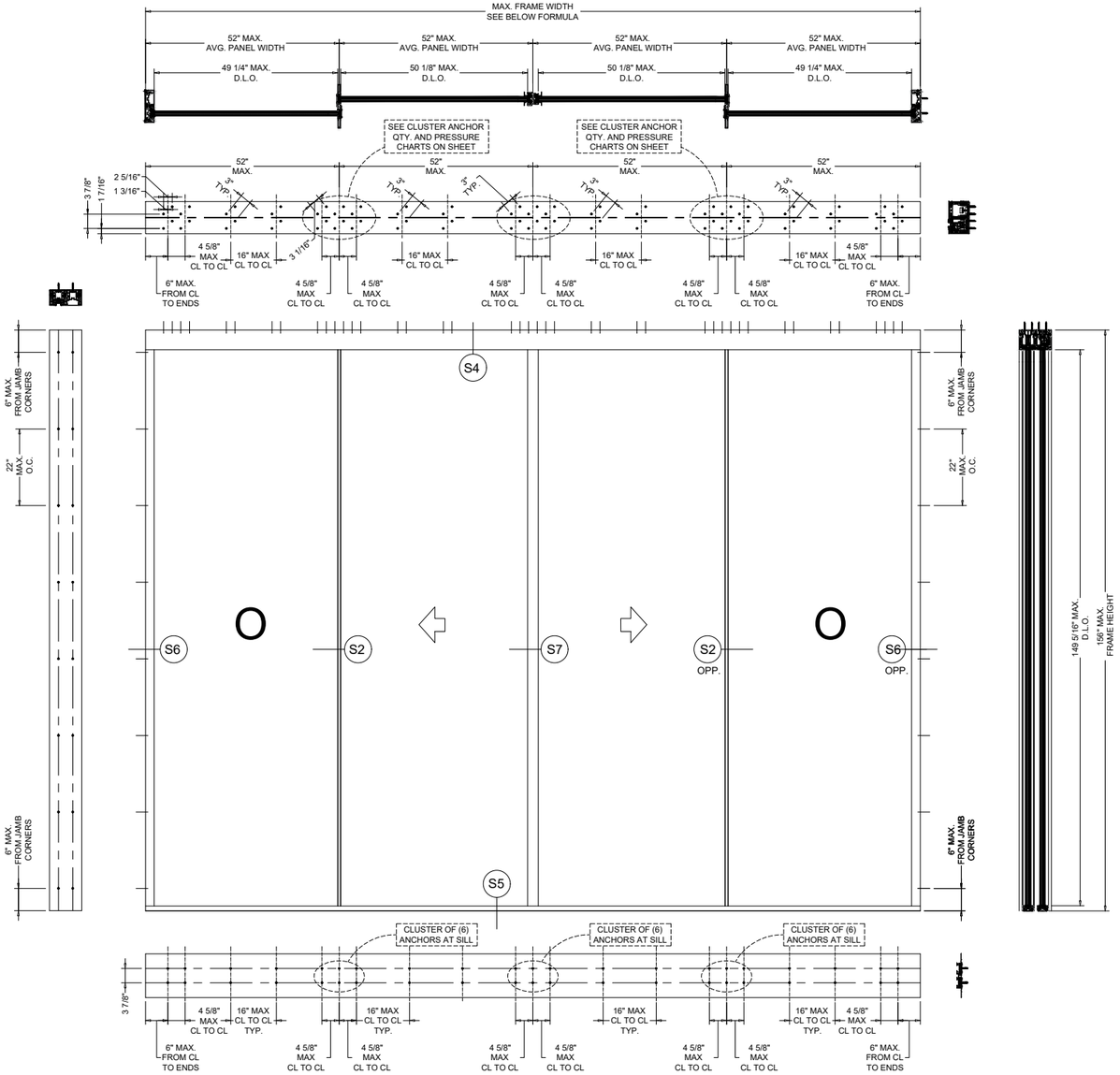
FL# 48399

NOTES:

SEE SHEETS 05 & 07
FOR DETAILED PRESSURE CHARTS.



TYPICAL ELEVATION
O-X
OTHER APPROVED CONFIGURATION
X-O
X-X



TYPICAL ELEVATION
OX-XO
OTHER APPROVED CONFIGURATION
XX-XX

NOTES:

- MAX. FRAME WIDTH = AVG. PANEL WIDTH X TOTAL NUMBER OF PANELS
- NO. OF PANELS NOT TO EXCEED APPROVED DOOR CONFIGURATIONS
- SYSTEM IS RATED FOR LARGE & SMALL MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.

SEALANT

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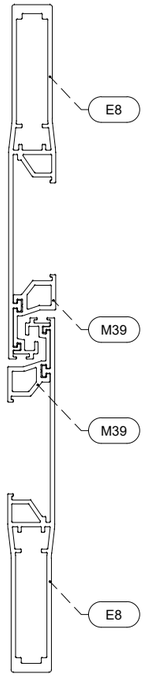
TYP. ELEV.

SHEET No.
04 OF 15

DOOR INTERLOCKS ALLOWABLE PRESSURE CHARTS:

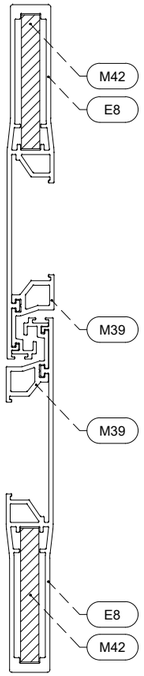
INTERLOCK DESIGN LOAD CAPACITY (PSF)			
AVG. PANEL WIDTH (INCH)	OVERALL HEIGHT (INCH)	W/O REINF.	W REINF.
		+/- PSF	+/- PSF
36	90	65.0	65.0
42		65.0	65.0
48		65.0	65.0
52		65.0	65.0
36	96	65.0	65.0
42		65.0	65.0
48		65.0	65.0
52		65.0	65.0
36	102	65.0	65.0
42		65.0	65.0
48		65.0	65.0
52		65.0	65.0
36	108	65.0	65.0
42		65.0	65.0
48		65.0	65.0
52		65.0	65.0
36	114	65.0	65.0
42		65.0	65.0
48		65.0	65.0
52		65.0	65.0
36	120	65.0	65.0
42		65.0	65.0
48		65.0	65.0
52		65.0	65.0

INTERLOCK DESIGN LOAD CAPACITY (PSF)			
AVG. PANEL WIDTH (INCH)	OVERALL HEIGHT (INCH)	W/O REINF.	W REINF.
		+/- PSF	+/- PSF
36	126	65.0	65.0
42		65.0	65.0
48		65.0	65.0
52		65.0	65.0
36	132	65.0	65.0
42		65.0	65.0
48		65.0	65.0
52		65.0	65.0
36	138	65.0	65.0
42		65.0	65.0
48		65.0	65.0
52		65.0	65.0
36	144	65.0	65.0
42		65.0	65.0
48		65.0	65.0
52		-	65.0
36	150	-	65.0
42		-	65.0
48		-	65.0
52		-	65.0
36	156	-	65.0
42		-	65.0
48		-	65.0
52		-	65.0



	Ix IN^4	Sx IN^3
6063-T6	30.190	5.140
TOTAL Ix 6063-T6	30.190	

STANDARD INTERLOCK
SCALE = 4-1/2" = 1'-0"

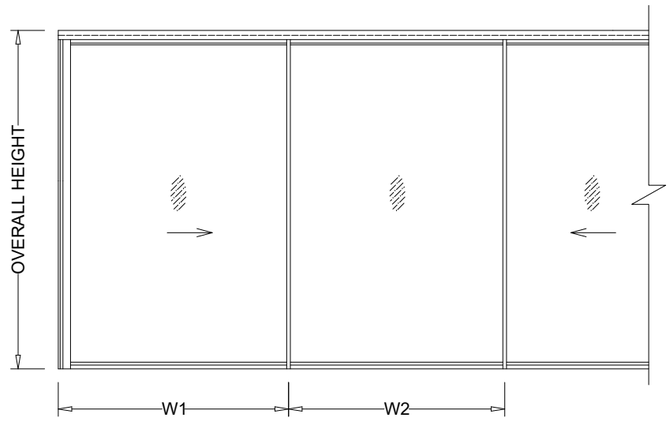


	Ix IN^4	Sx IN^3
6063-T6	30.888	5.258
A36-STEEL	0.697	0.059
TOTAL Ix 6063-T6 + 2.9 x Reinf	32.194	

INTERLOCK W/ REINF.
SCALE = 4-1/2" = 1'-0"

FL# 48399

NOTE: INTERPOLATION BETWEEN WIDTHS IS ALLOWED



AT FRAME JAMBS, AVERAGE
PANEL WIDTH, W = W1

AT FRAME MULLIONS, AVERAGE
PANEL WIDTH, W = (W1 + W2) / 2

FOR SGDs ALL CONFIG.

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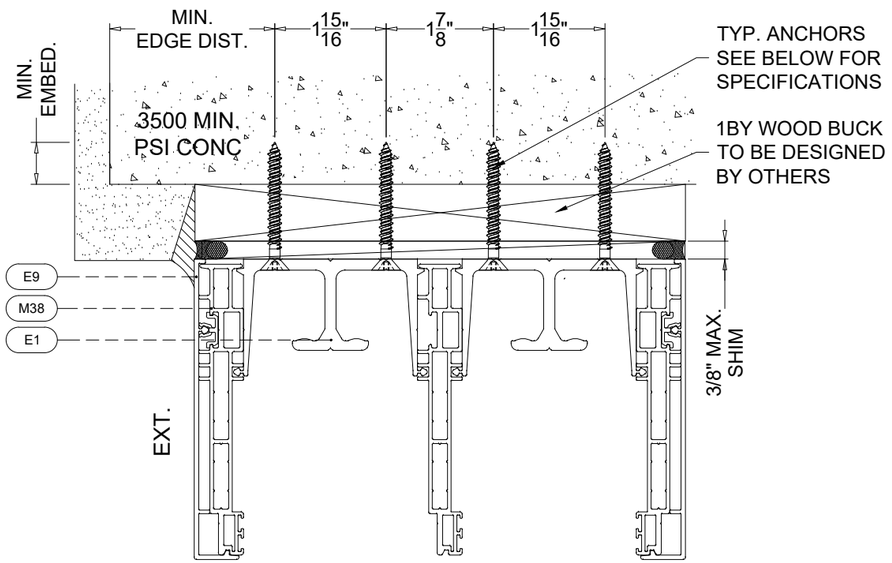
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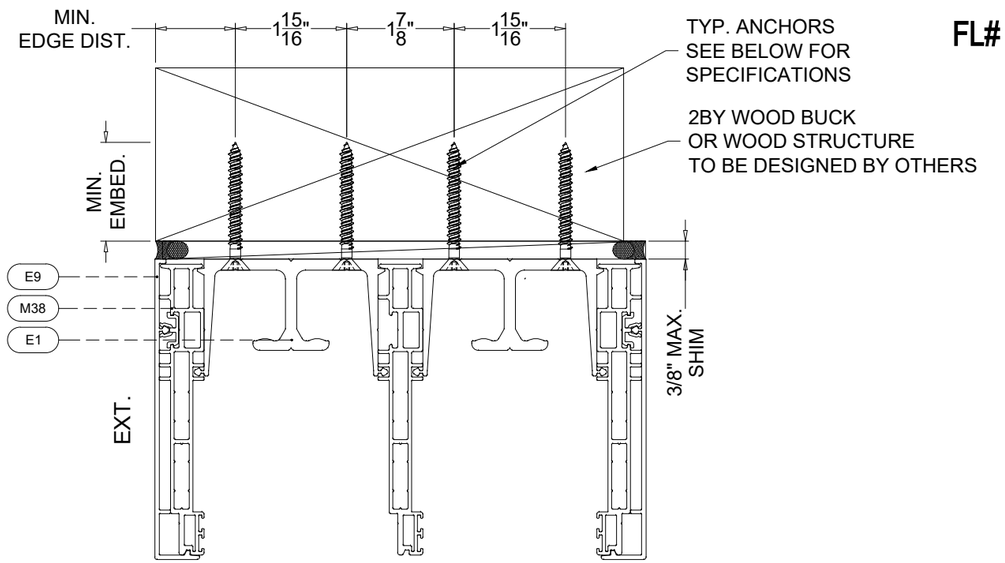
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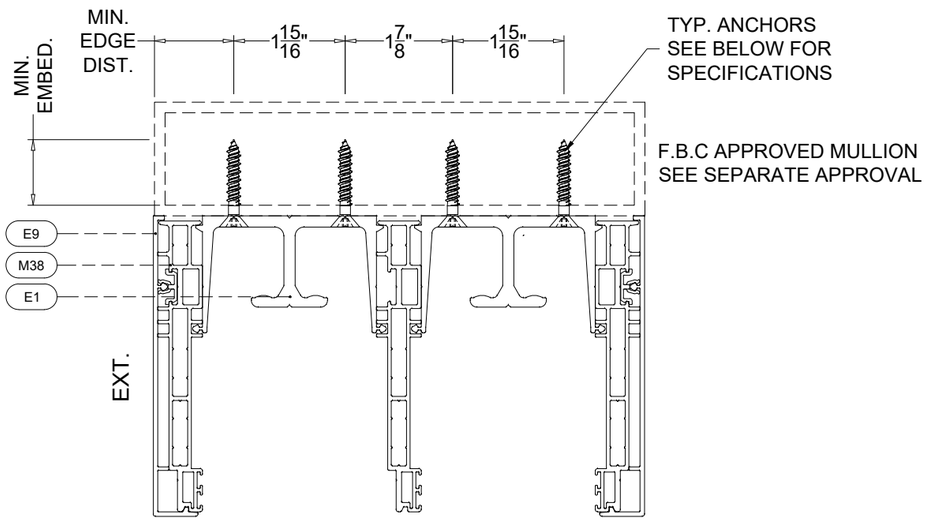
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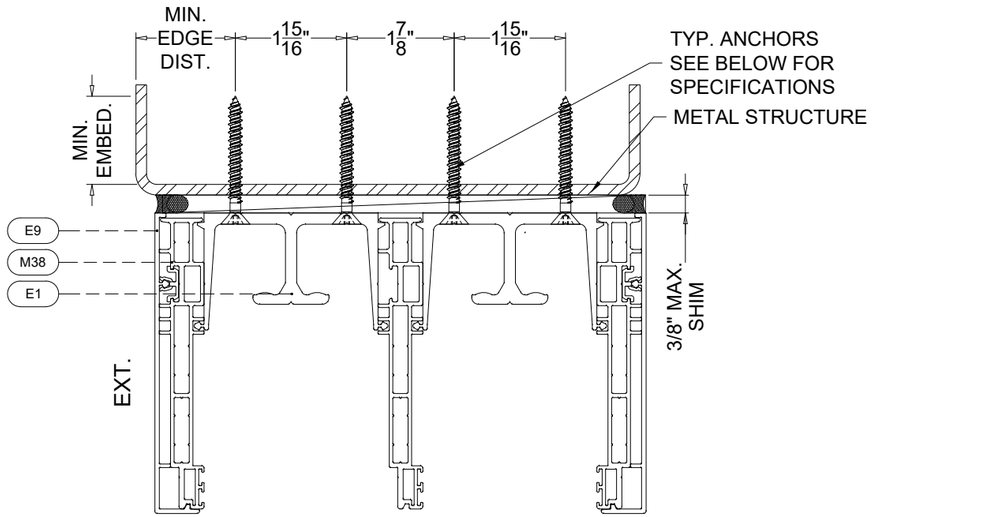
PRESSURE CHART

SHEET No. 05 OF 15









TYPICAL SUBSTRATE ANCHORS:

A

1/4" DIA ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
THRU 1BY OR 2BY BUCKS INTO CONC. (MIN. 3000 PSI CONC.)
1-3/4" MIN. EMBED INTO CONCRETE (HEAD / SILL / JAMBS)

DIRECTLY INTO CONCRETE (HEAD / SILL / JAMBS)
1-3/4" MIN. EMBED INTO CONCRETE (MIN. 3000 PSI CONC.)

DIRECTLY INTO CMU BLOCKS - C90 (JAMBS)
1-3/4" MIN. EMBED INTO BLOCK (MIN. 2000 PSI)

B

1/4" DIA ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
INTO WOOD STRUCTURES (MIN. S.G. 0.55)
1-3/4" MIN. PENETRATION INTO WOOD (HEAD / SILL / JAMBS)

ANCHOR EDGE DISTANCES
INTO CONCRETE = 2-1/2" MIN.
INTO BLOCKS = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1-9/16" MIN.

C

1/4" DIA. TEK SCREWS (Gr.5) (Fu=120 KSI, Fy=48 KSI)
INTO METAL STRUCTURES. (HEAD / SILL / JAMBS)
(3) THREAD MIN. PENETRATION BEYOND METAL SUBSTRATE
ALUMINUM: 1/8" THK. MIN. (6063-T6 MIN.)
STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

D

5/16" DIA. DRILL-FLEX (Gr.5) (Fu=120 KSI, Fy=48 KSI)
INTO METAL STRUCTURES. (HEAD / SILL / JAMBS)
(3) THREAD MIN. PENETRATION BEYOND METAL SUBSTRATE
ALUMINUM: 1/8" THK. MIN. (6063-T6 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.

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ANCHOR SPECS

SHEET No.
06 OF 15

HEAD CLUSTER ANCHORS ALLOWABLE PRESSURE CHARTS:

ANCHORS 'A' & 'B' LOAD CHART (PSF)

AVG. PANEL WIDTH (INCH)	OVERALL HEIGHT (INCH)	1/4" MAX. SHIM		3/8" MAX. SHIM	
		CLUSTER ANCHORS @ MTG. STILE ENDS		CLUSTER ANCHORS @ MTG. STILE ENDS	
		6	12	6	12
36	84	65.0	65.0	65.0	65.0
42		65.0	65.0	65.0	65.0
48		65.0	65.0	56.9	65.0
52		65.0	65.0	52.6	65.0
36	96	65.0	65.0	65.0	65.0
42		65.0	65.0	56.9	65.0
48		65.0	65.0	49.8	65.0
52		64.8	65.0	46.0	65.0
36	108	65.0	65.0	59.0	65.0
42		65.0	65.0	50.6	65.0
48		62.4	65.0	44.3	65.0
52		57.6	65.0	40.9	65.0
36	120	65.0	65.0	53.1	65.0
42		64.2	65.0	45.6	65.0
48		56.1	65.0	39.9	65.0
52		51.8	65.0	36.8	65.0
36	132	65.0	65.0	48.3	65.0
42		58.3	65.0	41.4	65.0
48		51.0	65.0	36.2	65.0
52		47.1	65.0	33.4	65.0
36	144	62.4	65.0	44.3	65.0
42		53.5	65.0	38.0	65.0
48		46.8	65.0	33.2	65.0
52		43.2	65.0	30.7	61.3
36	156	57.6	65.0	40.9	65.0
42		49.4	65.0	35.0	65.0
48		43.2	65.0	30.7	61.3
52		39.9	65.0	28.3	56.6

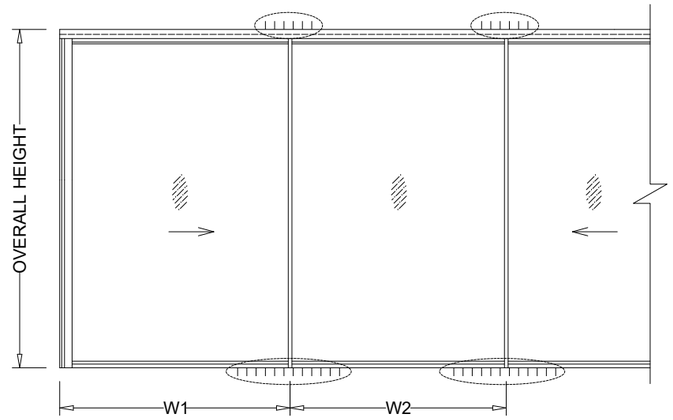
ANCHORS 'C' LOAD CHART (PSF)

AVG. PANEL WIDTH (INCH)	OVERALL HEIGHT (INCH)	1/4" MAX. SHIM		3/8" MAX. SHIM	
		CLUSTER ANCHORS @ MTG. STILE ENDS		CLUSTER ANCHORS @ MTG. STILE ENDS	
		6	12	6	12
36	84	65.0	65.0	65.0	65.0
42		65.0	65.0	62.8	65.0
48		65.0	65.0	54.9	65.0
52		65.0	65.0	50.7	65.0
36	96	65.0	65.0	64.1	65.0
42		65.0	65.0	54.9	65.0
48		65.0	65.0	48.0	65.0
52		62.1	65.0	44.4	65.0
36	108	65.0	65.0	56.9	65.0
42		65.0	65.0	48.8	65.0
48		59.8	65.0	42.7	65.0
52		55.2	65.0	39.4	65.0
36	120	65.0	65.0	51.3	65.0
42		61.6	65.0	43.9	65.0
48		53.9	65.0	38.4	65.0
52		49.7	65.0	35.5	65.0
36	132	65.0	65.0	46.6	65.0
42		56.0	65.0	39.9	65.0
48		49.0	65.0	34.9	65.0
52		45.2	65.0	32.3	64.5
36	144	59.8	65.0	42.7	65.0
42		51.3	65.0	36.6	65.0
48		44.9	65.0	32.0	64.1
52		41.4	65.0	29.6	59.1
36	156	55.2	65.0	39.4	65.0
42		47.3	65.0	33.8	65.0
48		41.4	65.0	29.6	59.1
52		38.2	65.0	27.3	54.6

ANCHORS 'D' LOAD CHART (PSF)

AVG. PANEL WIDTH (INCH)	OVERALL HEIGHT (INCH)	1/4" MAX. SHIM		3/8" MAX. SHIM	
		CLUSTER ANCHORS @ MTG. STILE ENDS		CLUSTER ANCHORS @ MTG. STILE ENDS	
		6	12	6	12
36	84	65.0	65.0	65.0	65.0
42		65.0	65.0	65.0	65.0
48		65.0	65.0	65.0	65.0
52		65.0	65.0	65.0	65.0
36	96	65.0	65.0	65.0	65.0
42		65.0	65.0	65.0	65.0
48		65.0	65.0	65.0	65.0
52		65.0	65.0	65.0	65.0
36	108	65.0	65.0	65.0	65.0
42		65.0	65.0	65.0	65.0
48		65.0	65.0	65.0	65.0
52		65.0	65.0	65.0	65.0
36	120	65.0	65.0	65.0	65.0
42		65.0	65.0	65.0	65.0
48		65.0	65.0	65.0	65.0
52		65.0	65.0	65.0	65.0
36	132	65.0	65.0	65.0	65.0
42		65.0	65.0	65.0	65.0
48		65.0	65.0	65.0	65.0
52		65.0	65.0	64.5	65.0
36	144	65.0	65.0	65.0	65.0
42		65.0	65.0	65.0	65.0
48		65.0	65.0	64.0	65.0
52		65.0	65.0	59.1	65.0
36	156	65.0	65.0	65.0	65.0
42		65.0	65.0	65.0	65.0
48		65.0	65.0	59.1	65.0
52		65.0	65.0	54.5	65.0

FL# 48399



FOR SGDs ALL CONFIG.

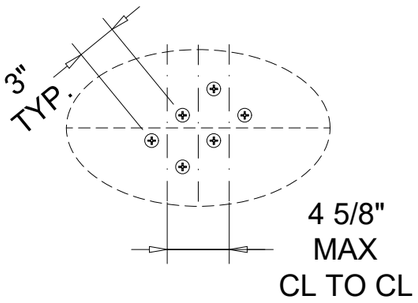
AT FRAME JAMBS, AVERAGE
PANEL WIDTH, W = W1

AT FRAME MULLIONS, AVERAGE
PANEL WIDTH, W = (W1 + W2) / 2

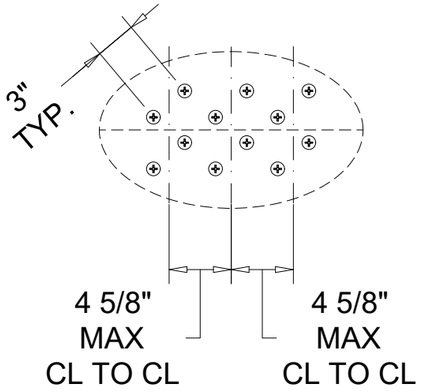
SEE CLUSTER ANCHOR PATTERN ON THE LEFT

NOTE: INTERPOLATION BETWEEN
WIDTHS OR HEIGHTS IS ALLOWED

CLUSTER ANCHOR PATTERN @ HEAD

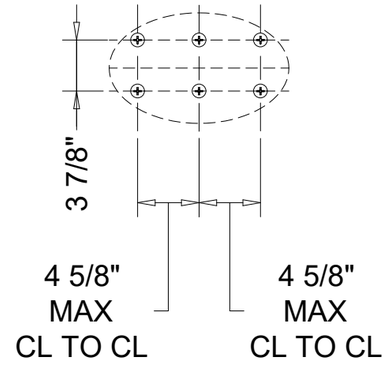


CLUSTER OF 6 ANCHORS



CLUSTER OF 12 ANCHORS

CLUSTER ANCHOR PATTERN @ SILL



CLUSTER OF 6 ANCHORS

JAVAD AHMAD PE, inc
7875 NW 12 Street, Suite 102
Doral, FL 33126
Ph: (305) 424-8001
support@ja-pe.com
CONSULTING • STRUCTURAL DESIGN • FACADES • BUILDING ENVELOPE • SYSTEM DESIGN • PRODUCT APPROVALS

PROJECT :

SERIES ES-NT7080
ALUMINUM SLIDING GLASS DOOR
(LARGE MISSILE IMPACT)

CLIENT :

ES imagine extraordinary
ES WINDOWS, LLC
3550 NW 49TH STREET
MIAMI, FL 33142
TEL. (305) 638-5151 | FAX. (305) 638-5158

REVISION

No.	DATE	BY	DESCRIPTION
0			

date:	8/27/2026
scale:	N/A
drawn by:	M.S.
check by:	
Drawing no.	JA-1592-26

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

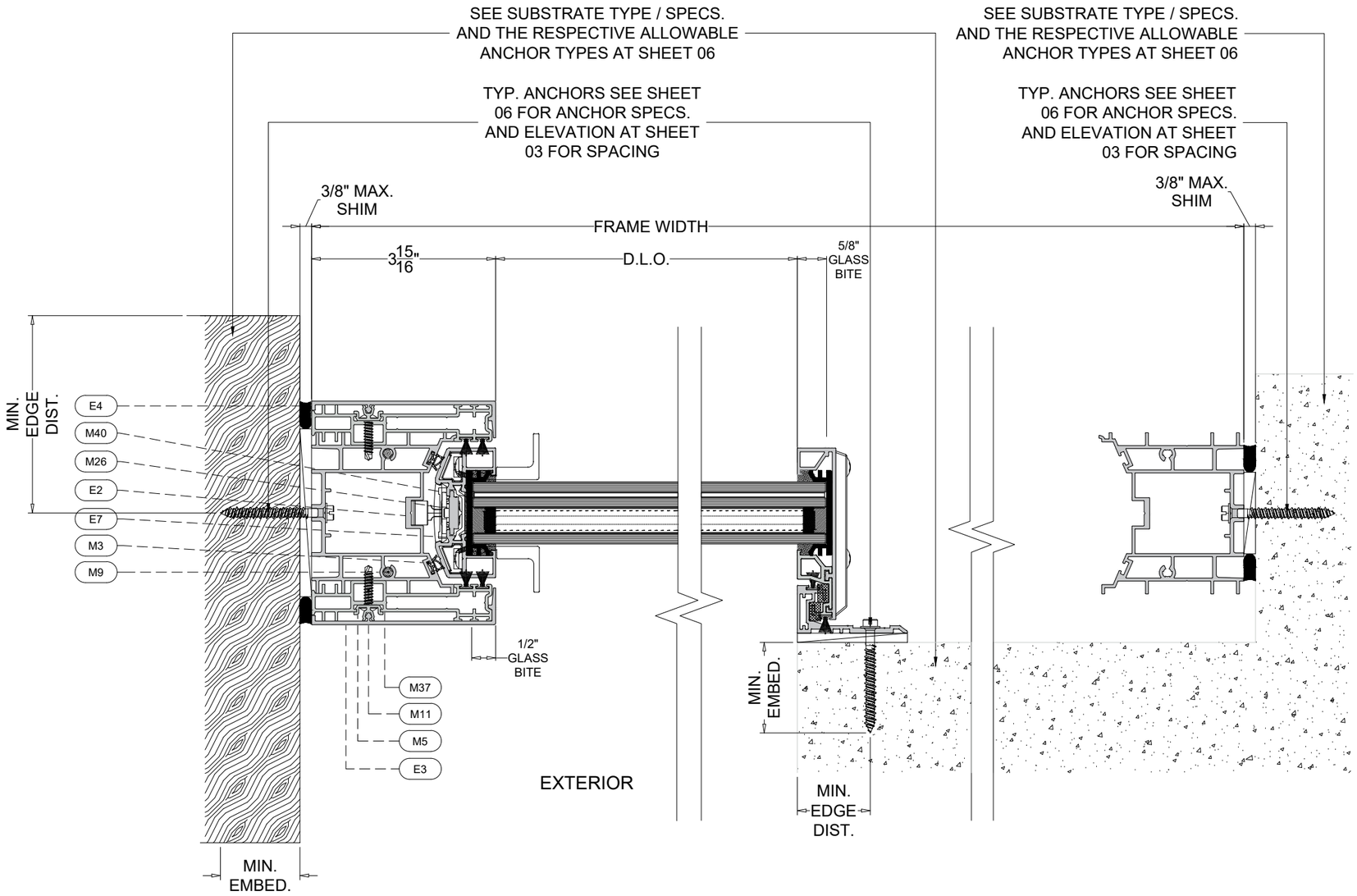


SEALED: 10/15/2026

ANCHOR CHART

SHEET No.
07 OF 15

FL# 48399



D1 JAMB DETAIL

D2 POCKET JAMB DETAIL

1 TRACK POCKET SYSTEM DETAILS

JAVAD AHMAD PE, inc
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Drawing no.	JA-1592-26

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

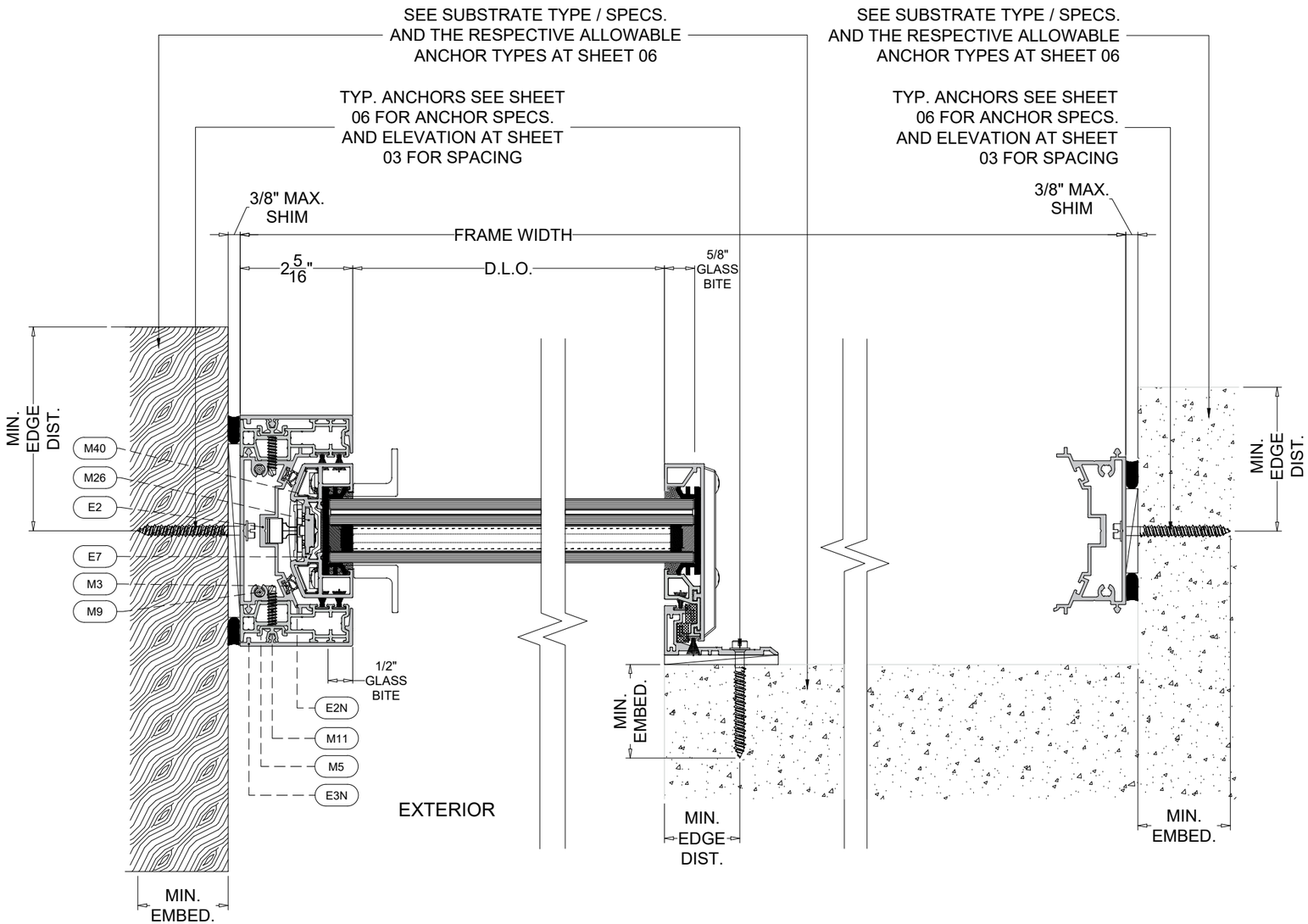
JAVAD AHMAD LICENSE No 70592 STATE OF FLORIDA PROFESSIONAL ENGINEER

SEALED: 10/15/2026

SEC. DETAILS

SHEET No.
8A OF 15

FL# 48399



D1 NARROW JAMB DETAIL

D2 POCKET JAMB DETAIL

1 TRACK POCKET NARROW JAMB DETAILS

JAVAD AHMAD PE, inc
7875 NW 12 Street, Suite 102
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Eng: JAVAD AHMAD, PE
CIVIL FLA. PE # 70592 – C.A.N. 34254

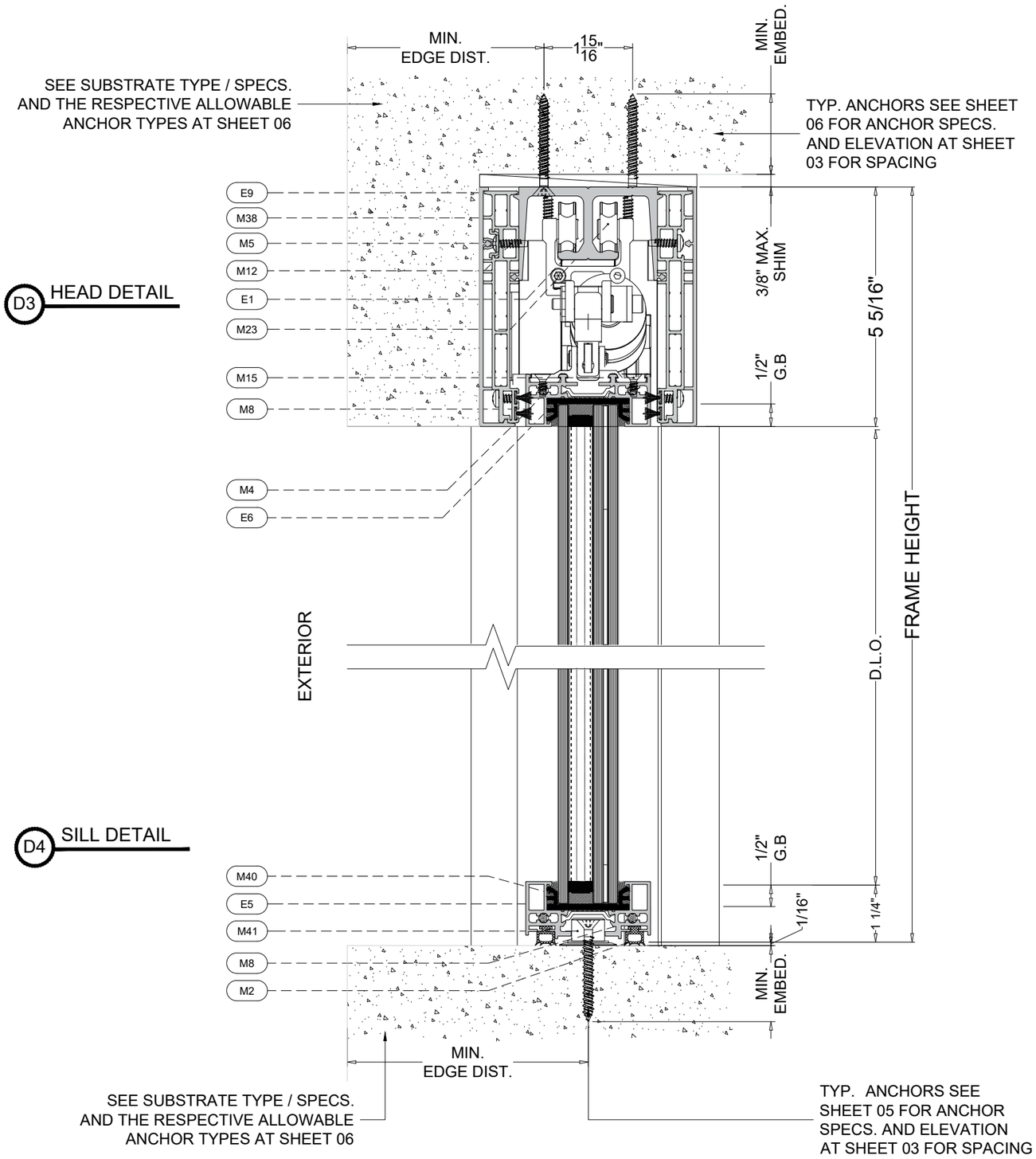
JAVAD AHMAD LICENSE No 70592 STATE OF FLORIDA PROFESSIONAL ENGINEER

SEALED: 10/15/2026

SEC. DETAILS

SHEET No. 8B OF 15

FL# 48399



D3 HEAD DETAIL

D4 SILL DETAIL

1 TRACK POCKET SYSTEM DETAILS

JAVAD AHMAD PE, inc
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REVISION

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check by:	
Drawing no.	JA-1592-26

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

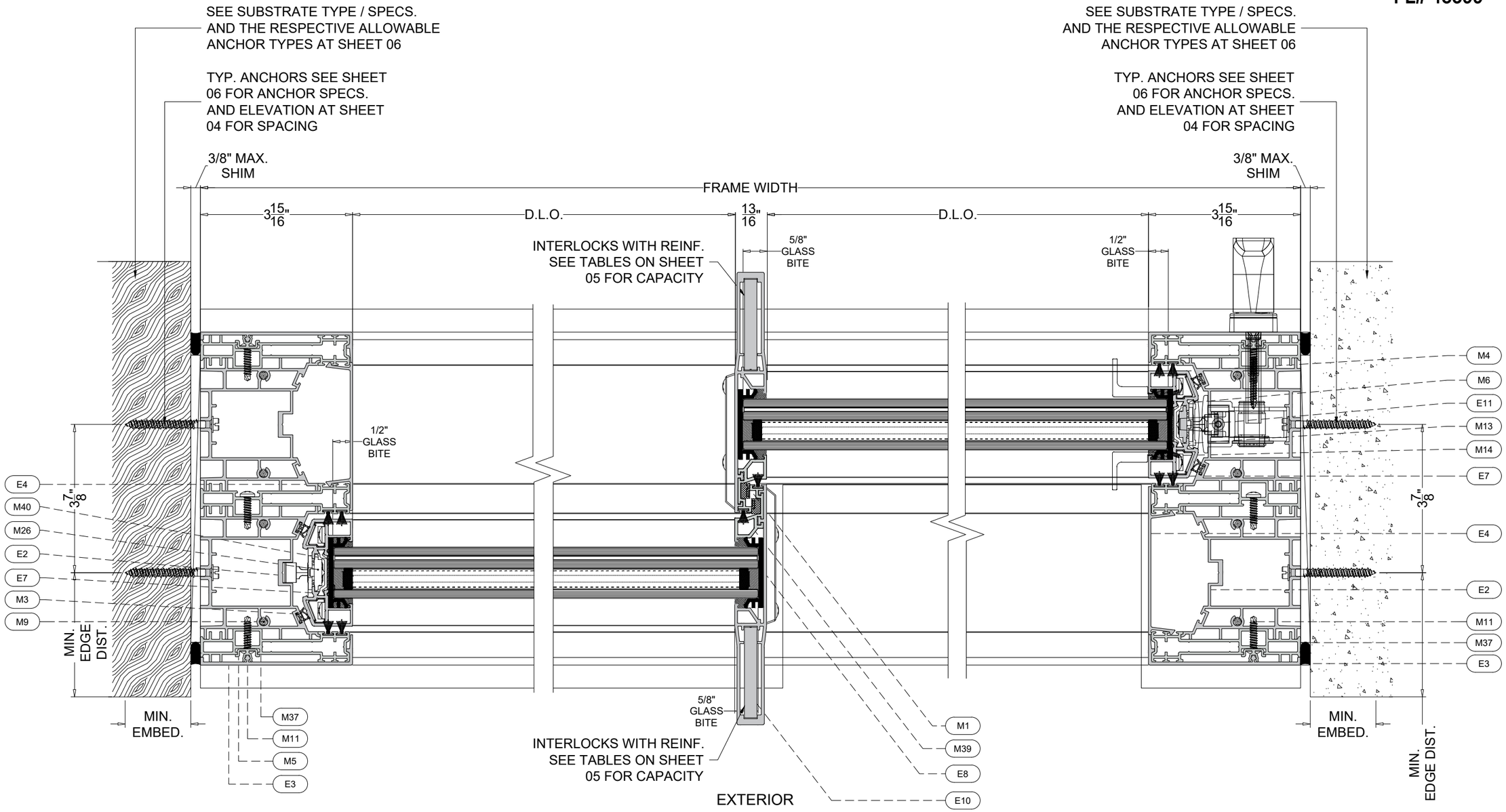
JAVAD AHMAD LICENSE No 70592 STATE OF FLORIDA PROFESSIONAL ENGINEER

SEALED: 10/15/2026

SEC. DETAILS

SHEET No.
09 OF 15

FL# 48399



S1 JAMB DETAIL

S2 INTERLOCK DETAIL

S3 JAMB DETAIL

2 TRACK SYSTEM DETAILS

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

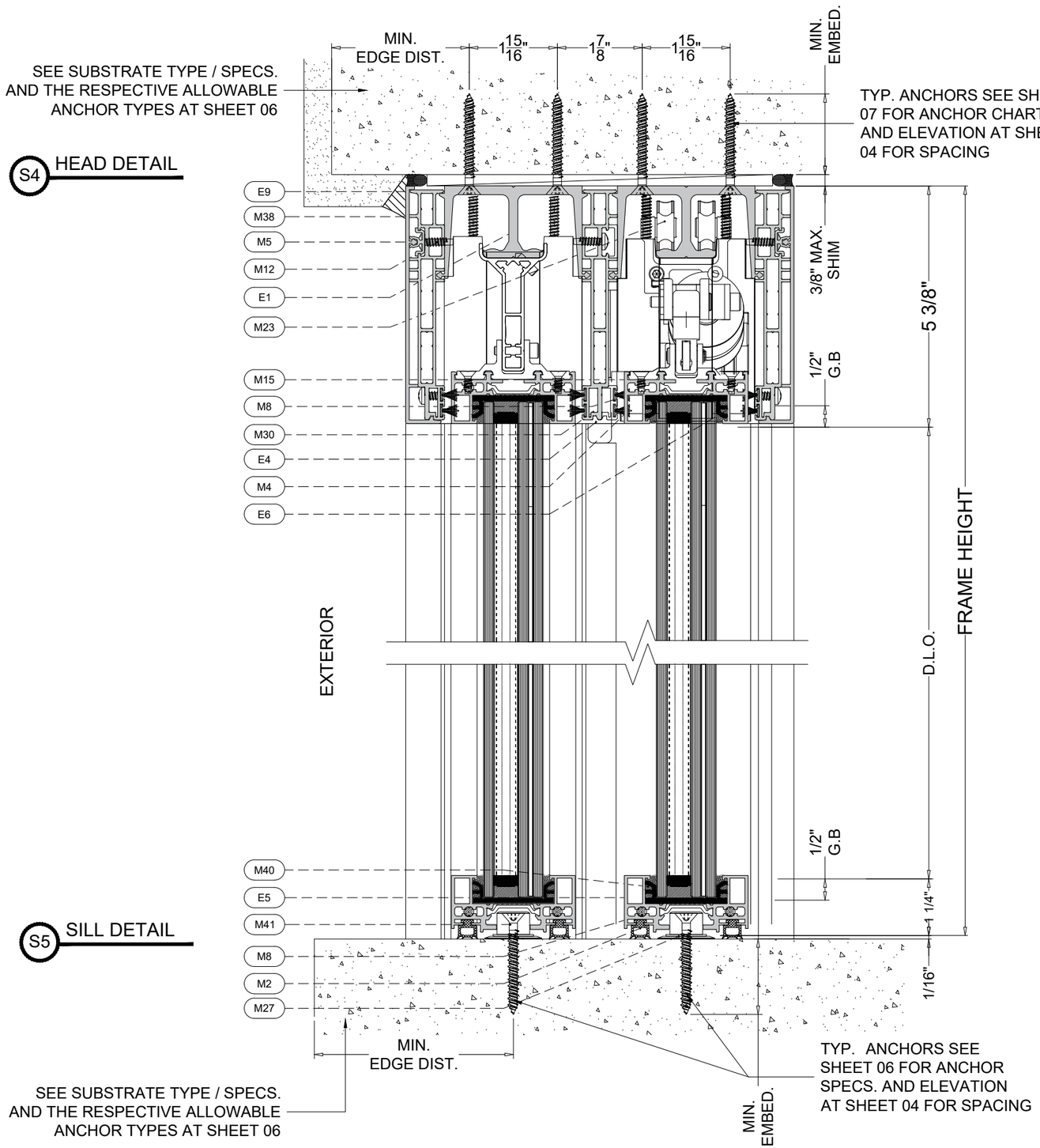
JAVAD AHMAD LICENSE No 70592 STATE OF FLORIDA PROFESSIONAL ENGINEER

SEALED: 10/15/2026

SEC. DETAILS

SHEET No. 10 OF 15

FL# 48399



S4 HEAD DETAIL

S5 SILL DETAIL

2 TRACK SYSTEM DETAILS

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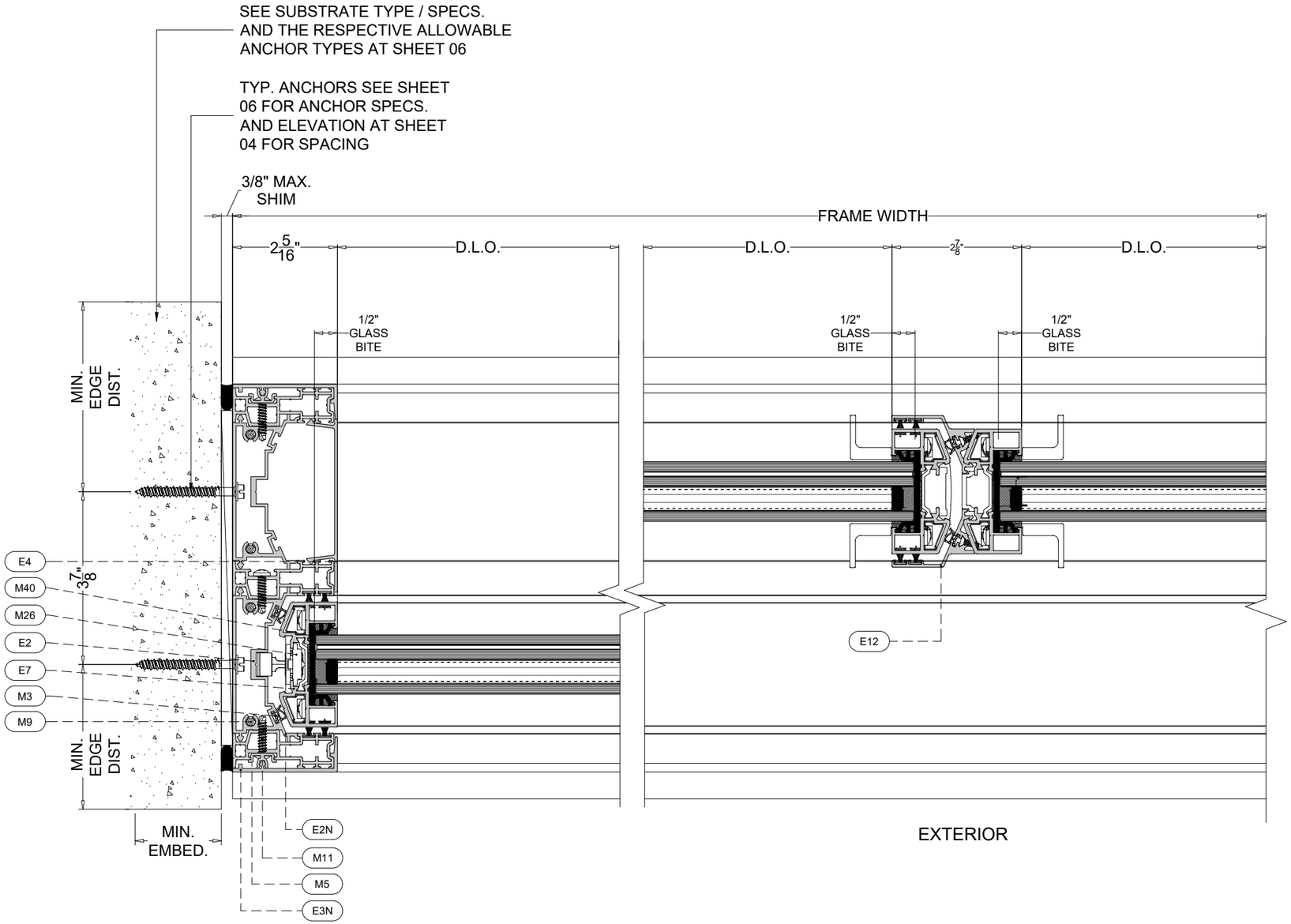
JAVAD AHMAD LICENSE No 70592 STATE OF FLORIDA PROFESSIONAL ENGINEER

SEALED: 10/15/2026

SEC. DETAILS

SHEET No. 11 OF 15

FL# 48399



S6 NARROW JAMB DETAIL

S7 ASTRAGAL DETAIL

2 TRACK NARROW JAMB & ASTRAGAL DETAILS

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Ph: (305) 424-8001
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PROJECT :

SERIES ES-NT7080
ALUMINUM SLIDING GLASS DOOR
(LARGE MISSILE IMPACT)

CLIENT :

ES WINDOWS, LLC
3550 NW 49TH STREET
MIAMI, FL 33142
TEL. (305) 638-5151 | FAX. (305) 638-5158

REVISION

No.	DATE	BY	DESCRIPTION
0			

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scale:	N/A
drawn by:	M.S.
check by:	
Drawing no.	JA-1592-26

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

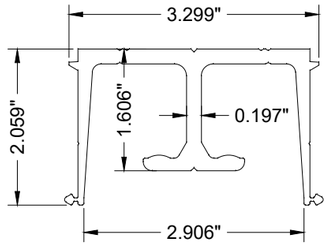
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SEALED: 10/15/2026

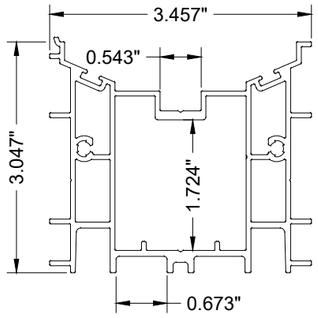
SEC. DETAILS

SHEET No.
12 OF 15

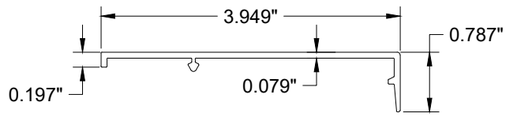
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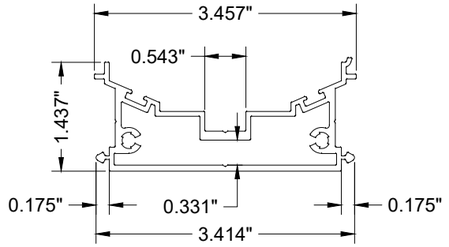
E1 TRACK
SCALE = 6" = 1'-0"



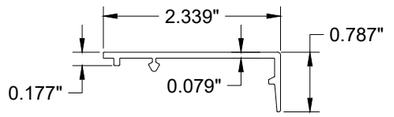
E2 JAMB FRAME
SCALE = 6" = 1'-0"



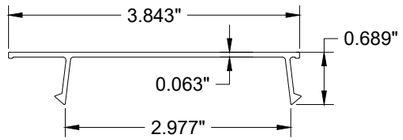
E3 JAMB COVER
SCALE = 6" = 1'-0"



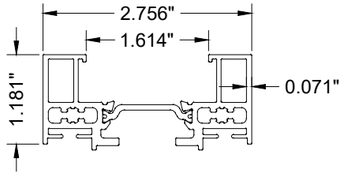
E2N NARROW JAMB FRAME
SCALE = 6" = 1'-0"



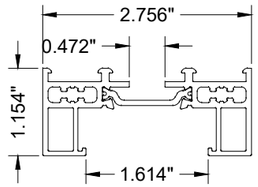
E3N NARROW JAMB COVER
SCALE = 6" = 1'-0"



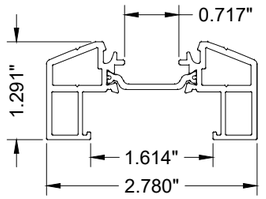
E4 COVER
SCALE = 6" = 1'-0"



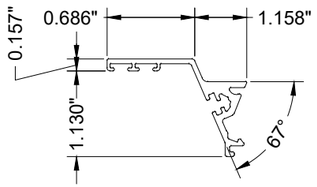
E5 BOTTOM RAIL
SCALE = 6" = 1'-0"



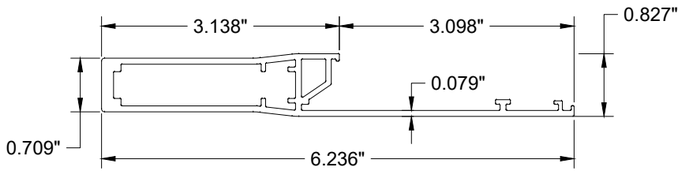
E6 TOP RAIL
SCALE = 6" = 1'-0"



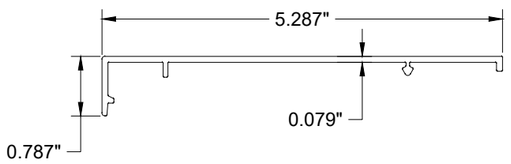
E7 STILE
SCALE = 6" = 1'-0"



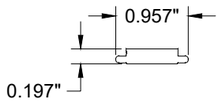
E10 ASTRAGAL
SCALE = 6" = 1'-0"



E8 REINF. INTERLOCK
SCALE = 6" = 1'-0"



E9 HEAD COVER
SCALE = 6" = 1'-0"



E11 RETAINING BAR
SCALE = 6" = 1'-0"

BILL OF MATERIALS

ITEM NO.	PART NO.	DESCRIPTION	MATERIAL
E1	ES-NT7080-001	TRACK	6063-T6
E2	ES-NT7080-003	FRAME JAMB	6063-T6
E2N	ES-NT7080-011	FRAME NARROW JAMB	6063-T6
E3	ES-NT7080-004	JAMB COVER	6063-T6
E3N	ES-NT7080-014	NARROW JAMB COVER	6063-T6
E4	ES-NT7080-005	COVER	6063-T6
E5	ES-NT7080-501	BOTTOM RAIL	6063-T6
E6	ES-NT7080-502	TOP RAIL	6063-T6
E7	ES-NT7080-503	STILE	6063-T6
E8	ES-NT7080-009	REINFORCEMENT INTERLOCK	6063-T6
E9	ES-NT7080-010	HEAD COVER	6063-T6
E10	ES-NT7080-020	ASTRAGAL	6063-T6
E11	ES-NT7080-019	RETAINING	6063-T6

EXTRUSION PROFILES

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Ph: (305) 424-8001
support@ja-pe.com
CONSULTING • STRUCTURAL DESIGN • FACADES • BUILDING ENVELOPE • SYSTEM DESIGN • PRODUCT APPROVALS

PROJECT :

SERIES ES-NT7080
ALUMINUM SLIDING GLASS DOOR
(LARGE MISSILE IMPACT)

CLIENT :

ES WINDOWS, LLC
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MIAMI, FL 33142
TEL. (305) 638-5151 | FAX. (305) 638-5158

REVISION			
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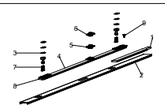
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Drawing no.	JA-1592-26

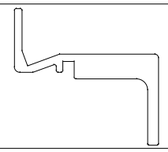
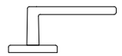
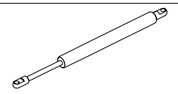
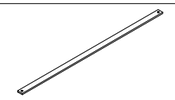
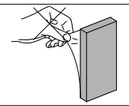
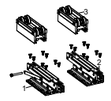
Eng: JAVAD AHMAD, PE
CIVIL FLA. PE # 70592 – C.A.N. 34254

JAVAD AHMAD LICENSE No 70592 STATE OF FLORIDA PROFESSIONAL ENGINEER

SEALED: 10/15/2026

PROFILES

ES-NT7080				
CODE	PART	DETAIL	DESCRIPTION	MATERIAL
MISCELLANEOUS				
M1	EMP-920 ES-NT7080-G01 S (02837)		GASKET FOR INTERLOCKS	SILICONE
M2	EMP-922 ES-NT7080-G03 S (02838)		GASKET FOR SILL SEAL	SILICONE
M3	EMP-921 ES-NT7080-G02 S (02839)		GASKET FOR JAMB	EPDM
M4	FEL-057 W23355NK (021238)		WHATHERSTRIP SEAL	POLIPROPILENE
M5	GUI-067 ES-NT7080-P01 (02518)		CLIP FOR COVER	POLYAMIDE
M6	S279_002_01		SASH COVER FOR LOCKING BAR KIT	PA 66 + 25% FV / ASA
M7	CER-024 LOCKING KIT (02481)		LOCKING KIT	–
M8	TC TGX 5.5x38		COVERS KIT PANEL ASSEMBLY	STAINLESS STEEL
M9	AF TC TGX 5.5x50		COVERS KIT JAMB ASSEMBLY	STAINLESS STEEL
M10	AF TS TGX 5.5x50		COVERS KIT HEAD ASSEMBLY	STAINLESS STEEL
M11	AP TC TGX 4.8x25		FOR JAMB ASSEMBLY	STAINLESS STEEL
M12	AF TC TGX 4.8x16		FOR HEAD TRACK ASSEMBLY	STAINLESS STEEL

ES-NT7080				
CODE	PART	DETAIL	DESCRIPTION	MATERIAL
MISCELLANEOUS				
M13	MAN-018 FINGER PULL KIT (02906)		FINGER PULL KIT	ALUMINUM
M14	Vite Autof. TS Ø2,9x9,5 Tg		FOR FINGER PULL KIT ASSEMBLY	STAINLESS STEEL
M15	AF TS TGX 4.8x13		FOR PANEL ASSEMBLY	STAINLESS STEEL
M16	GUI-076 ES-NT7080-P08 BRACKET		FIXED PANEL BRACKET	ALUMINUM
M17	3103.9 KARMA HANDLE		HANDLE	—
M18	CER-025 DAMPER (02190)		DAMPER	-
M19	02278/02 CONNECTING ROD FOR ROLLER		CONNECTING ROD FOR MANUAL	ALUMINUM
M20	02278/03 CONNECTING ROD FOR ROLLER		CONNECTING ROD FOR MOTORIZED	-
M21	ESP-XXX ES-NT7080-F01		JAMB CORNER FOAM	SILICONE FOAM
M22	02377		KIT FOR HEAD	-
M23	ROD-015 ES-NT7080-R01 KIT (02482)		KIT ROLLER	ALUMINUM / STAINLESS STEEL
M24	GUI-073 ES-NT7080-P06 KIT (02486)		ANCHOR FOR FIX PANEL KIT	ALUMINUM

MISCELLANEOUS HARDWARE

FL# 48399

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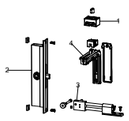
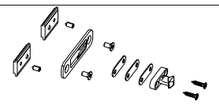
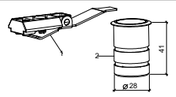
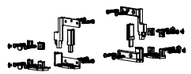
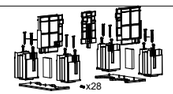
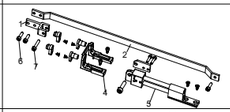
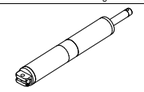
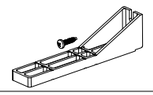
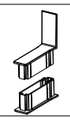
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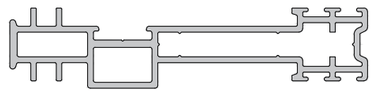
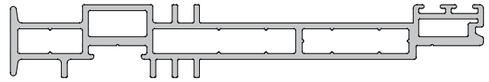
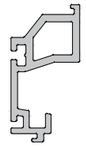
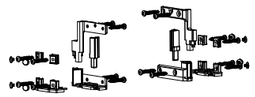
MISC. HARDWARE

SHEET No. 14 OF 15

ES-NT7080

CODE	PART	DETAIL	DESCRIPTION	MATERIAL
		MISCELLANEOUS		
M25	CER-023 MANUAL DRIVE KIT (02483)		MANUAL DRIVE KIT	—
M26	CER-026 FIX LOCK POINT KIT (02488)		FIX LOCK POINT	–
M27	GUI-071 MAGNETIC FLOOR GUIDE KIT (02484)		MAGNETIC FLOOR GUIDE KIT	–
M28	COV-072 ES-NT7080-C01 L KIT (02525)		COVER AND GUIDE KIT	–
M29	02984		KIT FRAME	
M30	GUI-069 ES-NT7080-P03 KIT (02798)		GUIDE FOR COVER	POLYAMIDE
M31	02801		LIFT MOTOR KIT	-
M32	02836		LIFT MOTOR	-
M33	02932		ANCHOR FOR FIX PANEL KIT	-
M34	GUI-074 ES-NT7080-P07 KIT (02971)		DOOR STOP KIT	POLYAMIDE
M35	COV-073 ES-NT7080-C02 KIT (02972)		INTERLOCK COVER KIT	POLYAMIDE
M36	BACKER ROD		BACKER ROD	-

ES-NT7080

CODE	PART	DETAIL	DESCRIPTION	WEIGHT
		MISCELLANEOUS		
M37	201501		ASA VERTICAL MOUNTING PROFILE	0.369 LB/PIES 0.549 KG/M
M38	200201		TOP THERMAL BREAK ADAPTER	0.463 LB/PIES 0.689 KG/M
M39	201301		THERMAL BREAK INSULATED GLASS	0.138 LB/PIES 0.206 KG/M
M40	ES-NT7080-EP07		FOR GLAZING	–
M41	COV-072 ES-NT7080-C01R KIT (02527)		COVER AND GUIDE KIT	–
M42	INTERLOCK REINFORCING BAR		1/4" x 2-1/4" STEEL BAR	A36 STEEL

MISCELLANEOUS HARDWARE

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SHEET No. 15 OF 15