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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.	

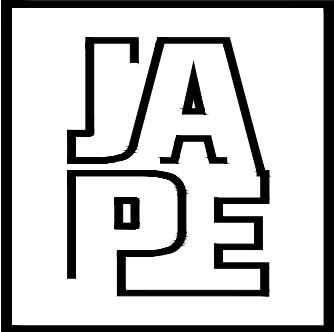
GENERAL NOTES

1. CODE COMPLIANCE AND TESTING:
THIS SYSTEM HAS BEEN DESIGNED AND TESTED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, NINTH EDITION (2026), INCLUDING THE APPLICABLE REQUIREMENTS OF TAS 201, TAS 202, AND TAS 203, AND IS APPROVED FOR USE IN THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
2. IMPACT RESISTANCE:
THIS PRODUCT IS APPROVED FOR IMPACT RESISTANT LEVEL 'D' AND HAS BEEN TESTED FOR LARGE MISSILE IMPACT. IMPACT-RESISTANT SHUTTERS ARE NOT REQUIRED WHEN THE SYSTEM IS INSTALLED IN ACCORDANCE WITH THIS PRODUCT EVALUATION DOCUMENT.
3. DESIGN PRESSURES:
THE DESIGN PRESSURES PROVIDED HEREIN ARE BASED ON THE MAXIMUM TESTED PRESSURES AND INCORPORATE A 1.5 SAFETY FACTOR. ALL PRESSURES ARE BASED ON THE ALLOWABLE STRESS DESIGN (ASD) METHOD. THE DESIGN DOES NOT INCORPORATE THE 33-1/3% INCREASE IN ALLOWABLE STRESS. FOR WOOD ANCHOR DESIGN, A WIND LOAD DURATION FACTOR OF CD = 1.6 HAS BEEN USED.
4. SUPPORTING STRUCTURE:
THE ARCHITECT/ENGINEER OF RECORD (E.O.R.) SHALL VERIFY THE ADEQUACY AND INTEGRITY OF ALL SUPPORTING SURFACES AND THE EXISTING STRUCTURE TO RECEIVE THE DESIGN LOADS. WOOD BUCKS AND THEIR ATTACHMENTS, WHERE REQUIRED, SHALL BE DESIGNED AND INSTALLED BY OTHERS TO PROVIDE ADEQUATE LOAD TRANSFER TO THE EXISTING STRUCTURE.
5. GENERIC PRODUCT EVALUATION:
THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) IS GENERIC IN NATURE AND DOES NOT PROVIDE SITE-SPECIFIC DESIGN INFORMATION. WHERE PROJECT CONDITIONS DIFFER FROM THOSE SPECIFIED HEREIN, SITE-SPECIFIC DOCUMENTATION SHALL BE PREPARED BY A FLORIDA-REGISTERED PROFESSIONAL ENGINEER OR ARCHITECT, WHO SHALL ASSUME RESPONSIBILITY AS THE E.O.R. FOR THE PROPER APPLICATION OF THIS P.E.D.
6. INSTALLATION AND MATERIALS:
THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SELECTION, PURCHASE, HANDLING, AND INSTALLATION OF THIS PRODUCT IN ACCORDANCE WITH THIS P.E.D. AND SHALL NOT DEVIATE FROM THE APPROVED DETAILS, MATERIALS, FASTENERS, OR INSTALLATION REQUIREMENTS WITHOUT PRIOR APPROVAL. APPROPRIATE ISOLATION SHALL BE PROVIDED BETWEEN DISSIMILAR MATERIALS TO PREVENT GALVANIC CORROSION OR ELECTROLYSIS.
7. FASTENERS:
SUBSTITUTION OF FASTENERS SPECIFIED HEREIN IS PERMITTED ONLY WHEN THE SUBSTITUTE FASTENER HAS A DESIGN STRENGTH EQUAL TO OR GREATER THAN THE SPECIFIED FASTENER AND COMPLIES WITH ALL APPLICABLE CODE REQUIREMENTS. ACCEPTANCE OF SUBSTITUTED ANCHORS SHALL BE SUBJECT TO APPROVAL BY THE AUTHORITY HAVING JURISDICTION. WOOD SCREWS SHALL HAVE A MINIMUM GRADE 2 RATING WITH A MINIMUM ULTIMATE TENSILE STRENGTH OF FU = 74,000 PSI.
8. SITE-SPECIFIC DOCUMENTATION:
SITE-SPECIFIC DRAWINGS, WHEN REQUIRED, SHALL BE PREPARED, SIGNED, SEALED, AND DATED BY THE FLORIDA-REGISTERED PROFESSIONAL ENGINEER OR ARCHITECT RESPONSIBLE FOR THE PROJECT. THE SITE-SPECIFIC E.O.R. SHALL BE RESPONSIBLE FOR THE PROPER APPLICATION OF THIS P.E.D. AND SHALL SUBMIT THE SITE-SPECIFIC DOCUMENTATION TO THE ENGINEER WHO PREPARED THIS P.E.D. FOR REVIEW WHEN REQUIRED.
9. DOCUMENT VALIDITY AND LIMITATION OF CERTIFICATION:
THIS P.E.D. SHALL BEAR THE ORIGINAL DATE, SIGNATURE, AND SEAL OF THE PROFESSIONAL ENGINEER WHO PREPARED IT. ANY UNAUTHORIZED ALTERATION, ADDITION, DELETION, OR MARKING SHALL RENDER THIS DOCUMENT INVALID. THE ENGINEER'S SEAL AND SIGNATURE CERTIFY ONLY THE STRUCTURAL DESIGN AND ENGINEERING INFORMATION PRESENTED HEREIN. NO ADDITIONAL CERTIFICATIONS, WARRANTIES, OR AFFIRMATIONS ARE INTENDED OR IMPLIED. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR MATERIAL FABRICATION, PRODUCT MANUFACTURING, FIELD INSTALLATION, OR CONSTRUCTION PRACTICES OUTSIDE THE SCOPE OF THIS DESIGN.
10. SAFETY:
ALL APPLICABLE SAFETY MEASURES, PROCEDURES, AND REQUIREMENTS SHALL BE OBSERVED DURING THE HANDLING, INSTALLATION, AND USE OF THIS SYSTEM, WHETHER OR NOT SPECIFICALLY IDENTIFIED IN THIS DOCUMENT.

SERIES ES-GD3020

ALUMINUM SECTIONAL GARAGE DOOR

(LARGE MISSILE IMPACT)



JAVAD AHMAD PE, inc

7320 NW 58 Street
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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-GD3020
ALUMINUM SECTIONAL GARAGE DOOR
(L.M.I.)

CLIENT :



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

REVISION

No.	DATE	BY	DESCRIPTION
1	9/7/2026	JM	2026 FBC UPDATE
date:		9/7/2026	
scale:		N/A	
drawn by:		M.S.	
check by:		JA	
Drawing no.		JA-1594-26	

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



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FL# 48401.1

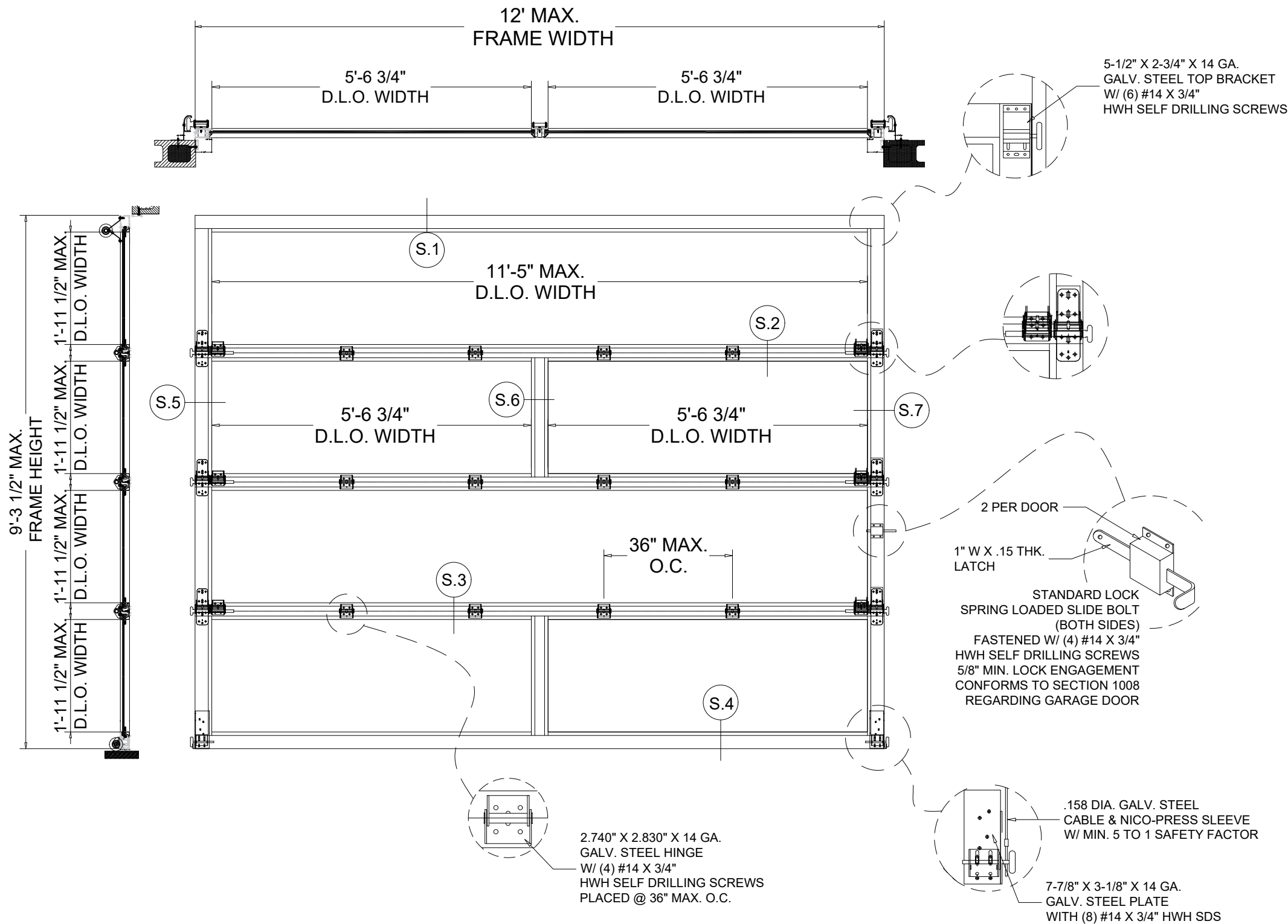
COVER PAGE

SHEET No.
01 OF 15

11. 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:

1. FASTENERS INSTALLED IN ENCLOSED SPACES SHALL BE GALVANIZED TO ASTM A153, CLASS D; ASTM A641, CLASS 3S; OR PROVIDED WITH EQUIVALENT CORROSION PROTECTION.
2. 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.



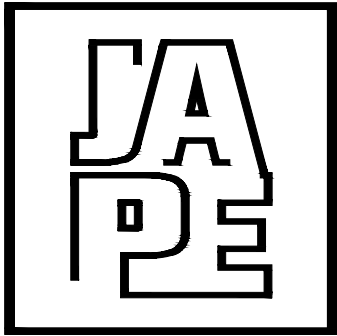
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- E. THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

**144" 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 SHEETS# 04 & 05

SEE TABLE-1 ON SHEET 07 FOR DESIGN
LOAD CAPACITY CHARTS



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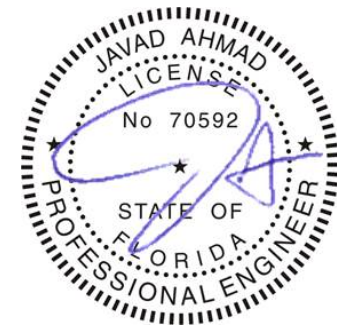
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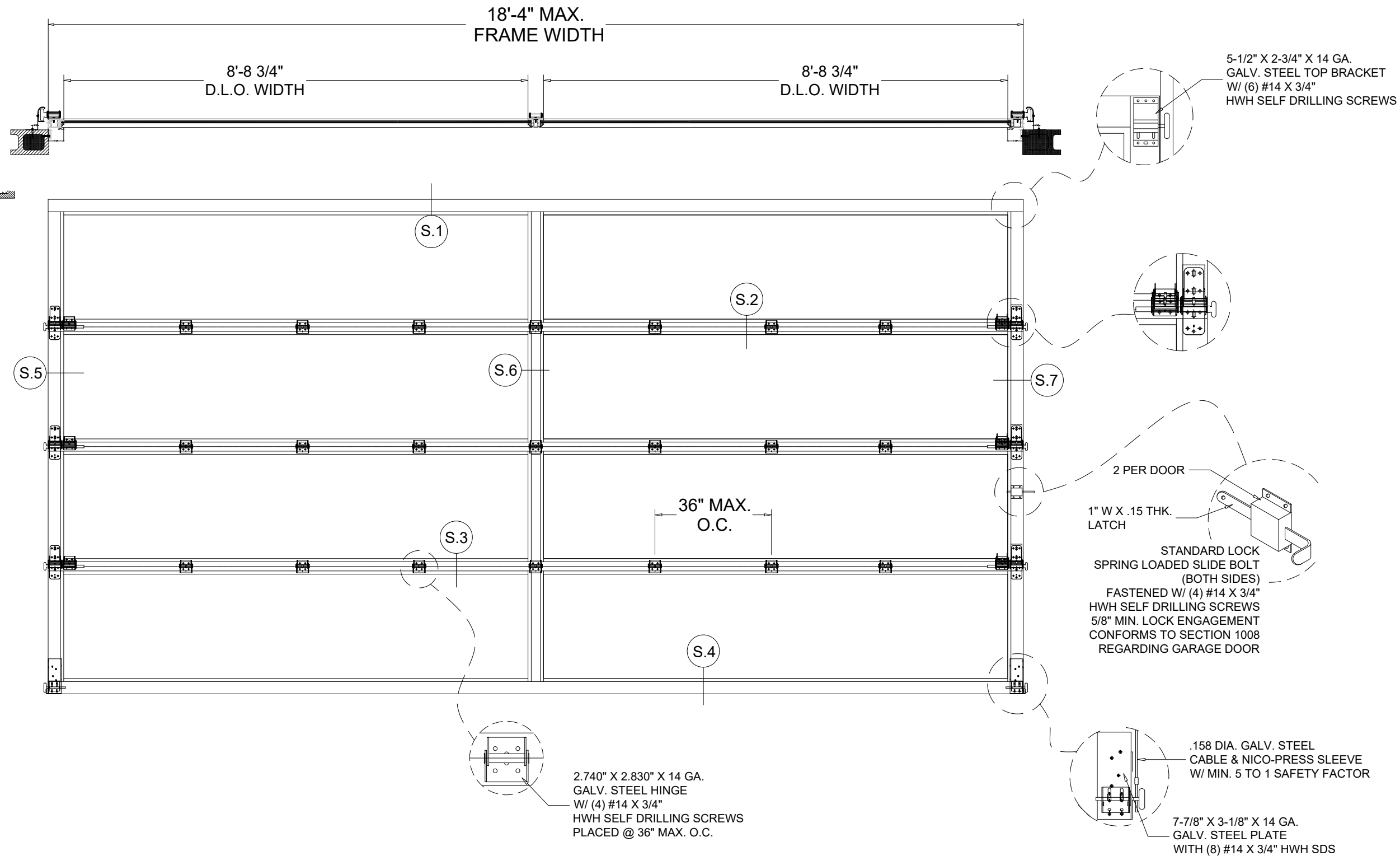


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TYPICAL ELEVATION

SHEET No.
02 OF 15



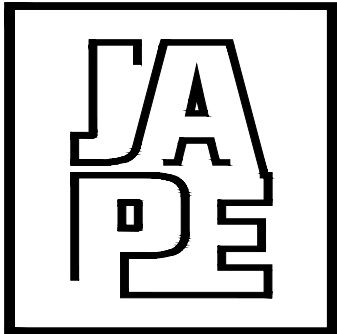
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**220" ALUMINUM / GLASS
SECTIONAL GARAGE DOOR**

THIS DOOR IS RATED FOR LARGE MISSILE IMPACT.
MAX. FRAME AND GLASS DIMENSIONS AS
SHOWN ON TYPICAL ELEVATION. SEE GLASS
SPECS ON SHEETS# 04 & 05

SEE TABLE-1 ON SHEET 07 FOR DESIGN
LOAD CAPACITY CHARTS



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PROJECT :

**SERIES ES-GD3020
ALUMINUM SECTIONAL GARAGE
DOOR
(L.M.I.)**

CLIENT :

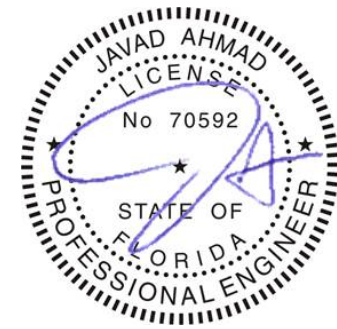
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CIVIL FLA. PE # 70592 – C.A.N. 34254

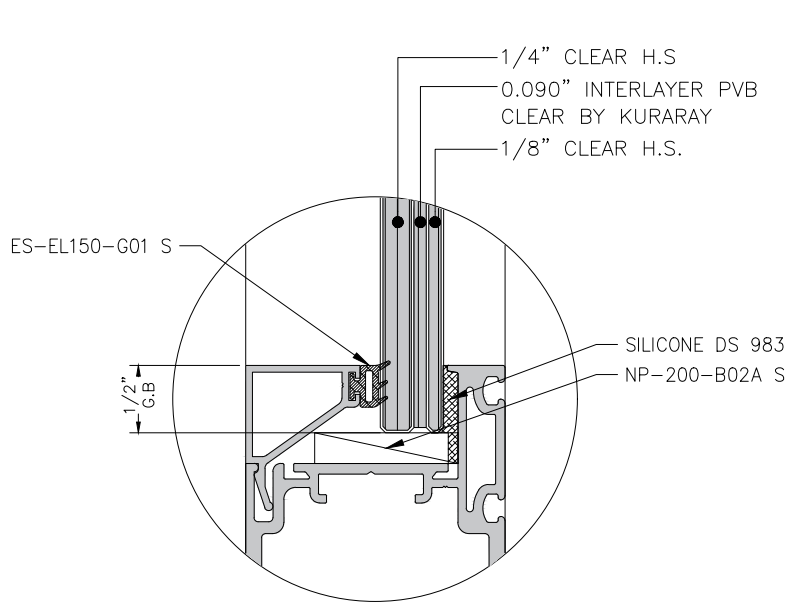


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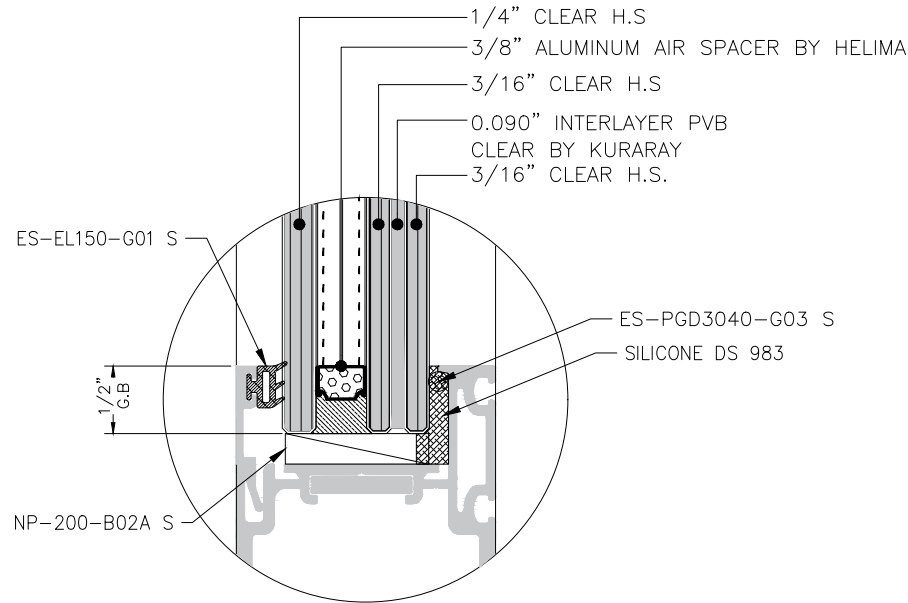
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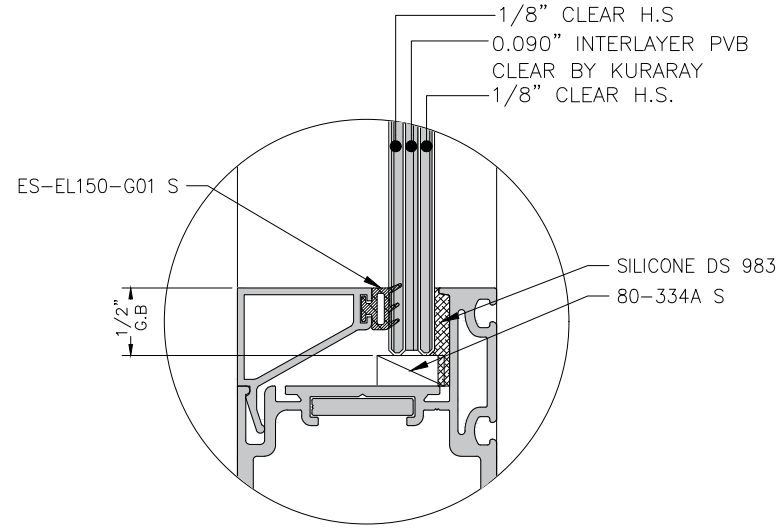
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03 OF 15**



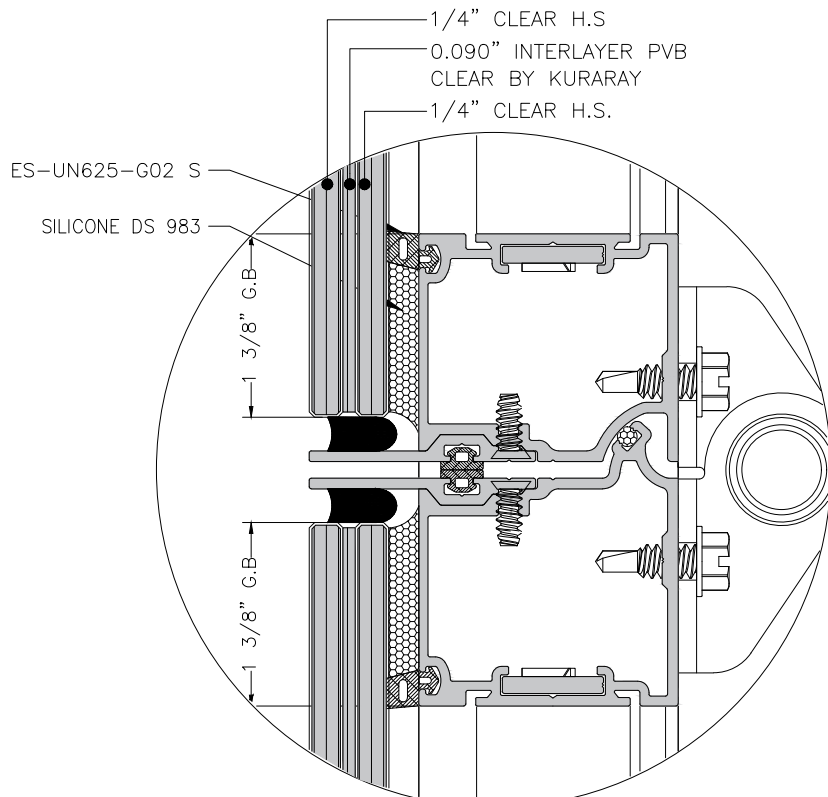
**G1
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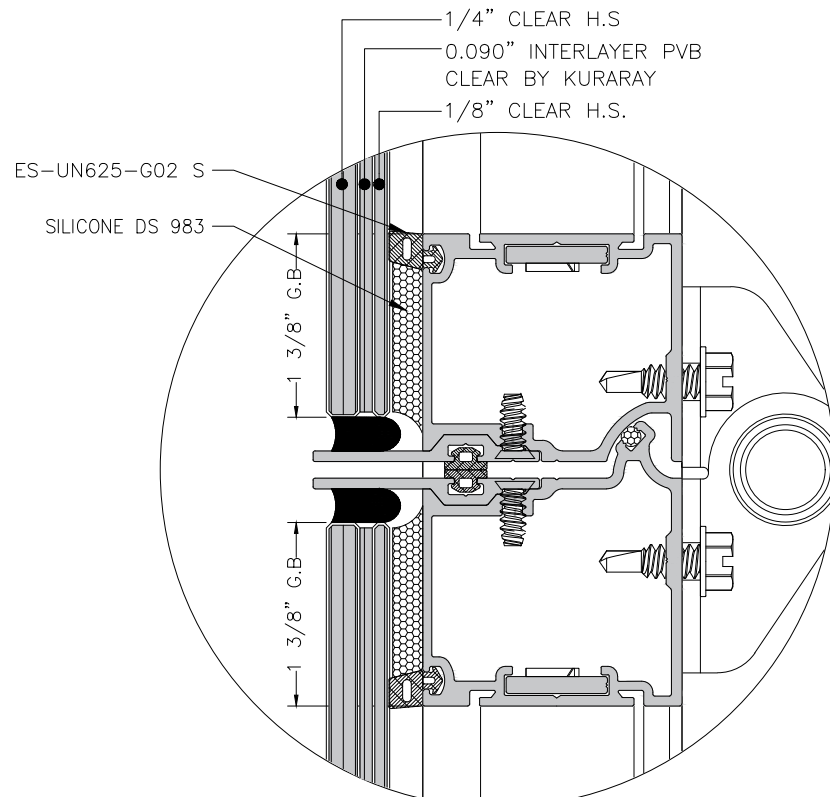
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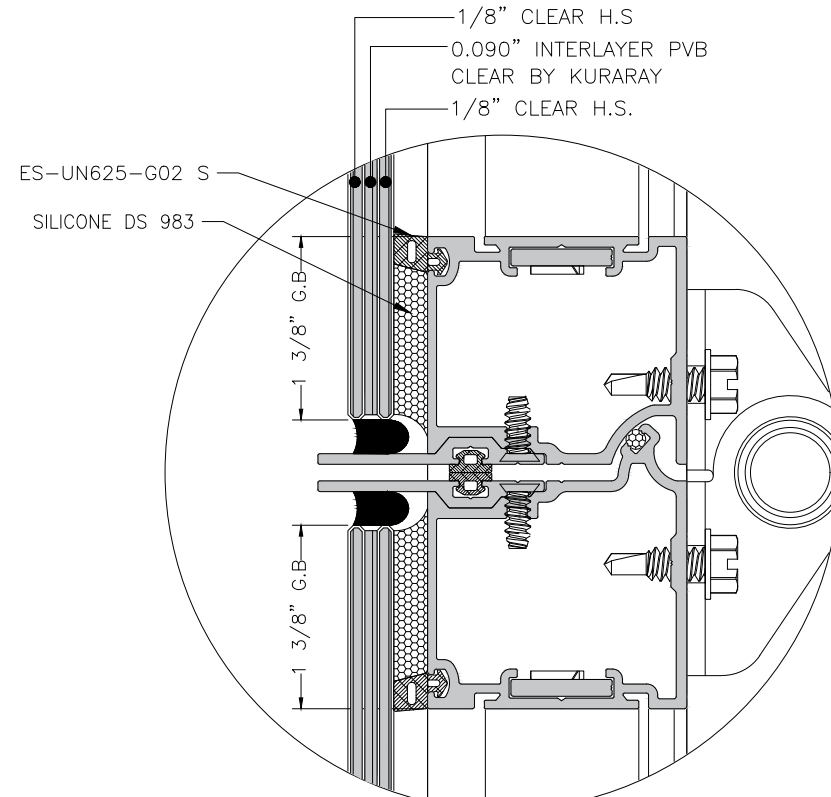
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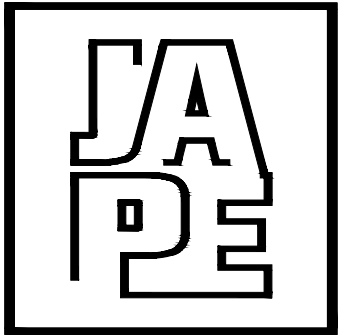
**G4
SSG**



**G5
SSG**



**G6
SSG**



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PROJECT :

**SERIES ES-GD3020
ALUMINUM SECTIONAL GARAGE
DOOR
(L.M.I.)**

CLIENT :



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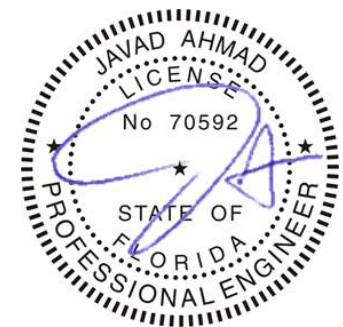
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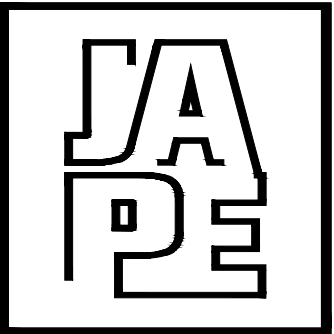


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GLASS DETAILS

**SHEET No.
04 OF 15**



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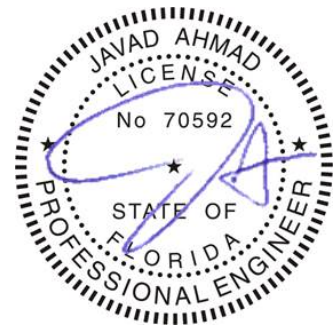
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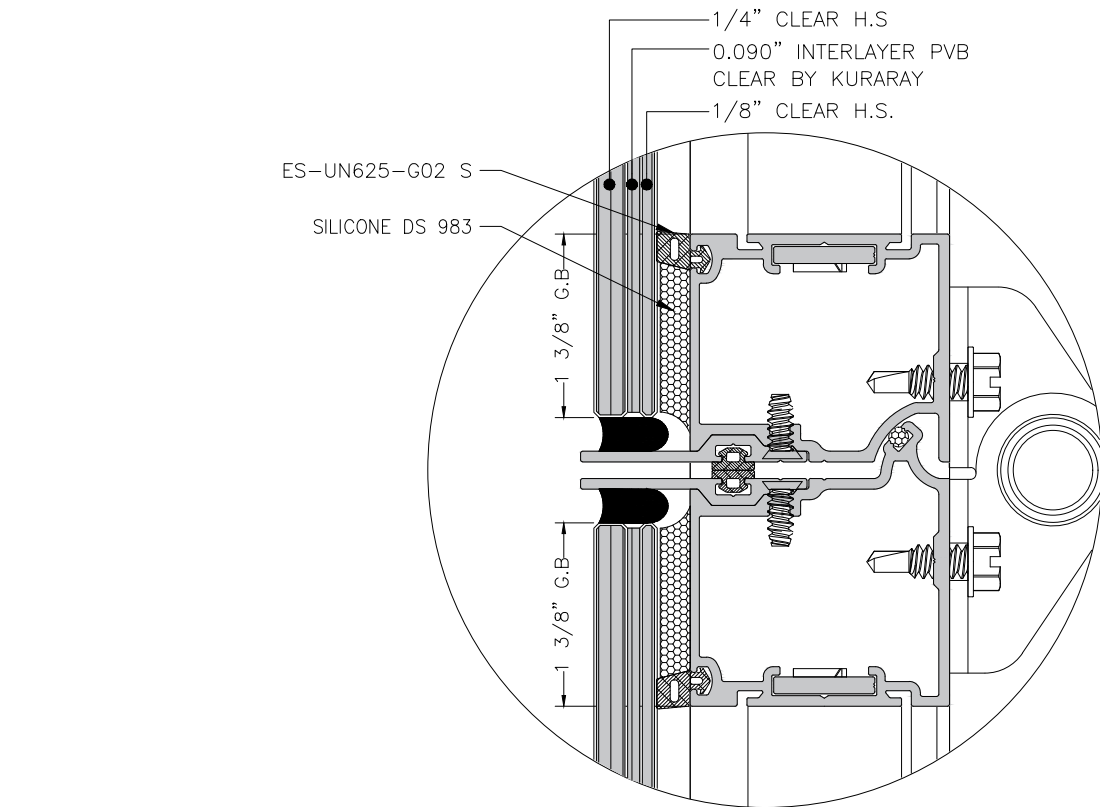


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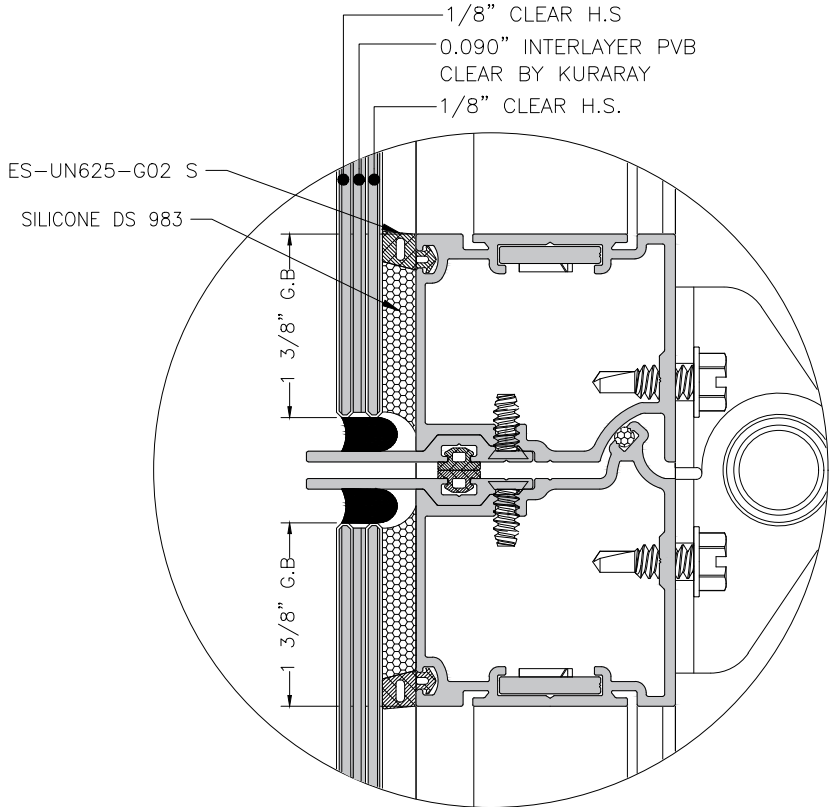
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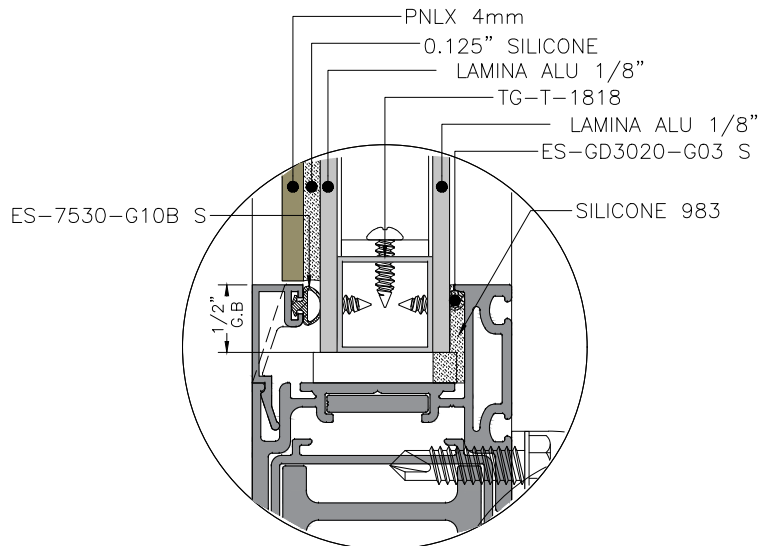
SHEET No.
05 OF 15



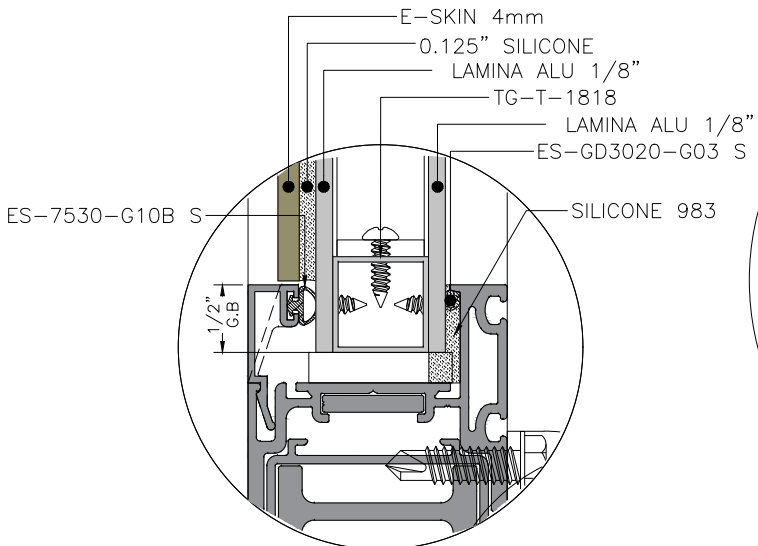
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SSG**



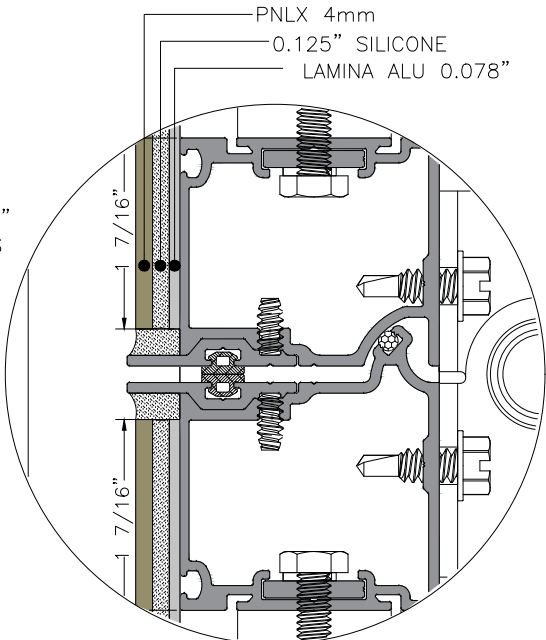
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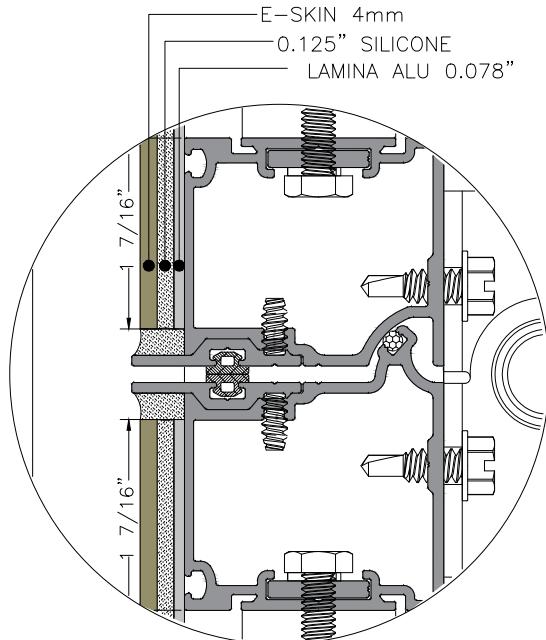
**GP1
CAPTURED**



**GP2
CAPTURED**



**GP3
SSG**



**GP4
SSG**

SYSTEM ANCHORS:

- A1

1/4" DIA. TEKS OR SELF-DRILLING SCREWS (GALVANIZED STEEL)
WITH (3) THREAD MIN. PENETRATION BEYOND 1/8" MIN. THK. METAL
1/2" MIN. METAL E.D.
- A2

#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
- A3

#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.
- A4

#1/4-20 X 9/16" CARRIAGE BOLT WITH WASHERED NUT
AT 4" MAX. FROM ENDS.
6" O.C. MAX.

SUBSTRATE ANCHORS:

- A5

5/16" DIA. ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI)
THRU 1BY OR 2BY BUCKS INTO CONCRETE
2" MIN. EMBED. INTO CONCRETE
6" FROM BOTTOM AND 12" O.C. MAX.

DIRECTLY INTO CONCRETE
2" MIN. EMBED INTO CONCRETE
6" FROM BOTTOM AND 12" O.C. MAX.
- A6

3/8" DIA. KWIK BOLT 3 EXPANSION ANCHOR BY 'HILTI'
DIRECTLY INTO MASONRY
2-1/2" MIN. EMBED INTO FILLED BLOCKS
AT 5" FROM BOTTOM AND 11" O.C. MAX.
- A7

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 6" FROM BOTTOM AND 12" O.C. MAX.
- A8

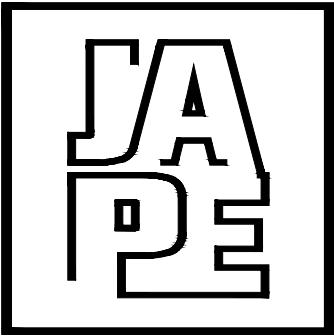
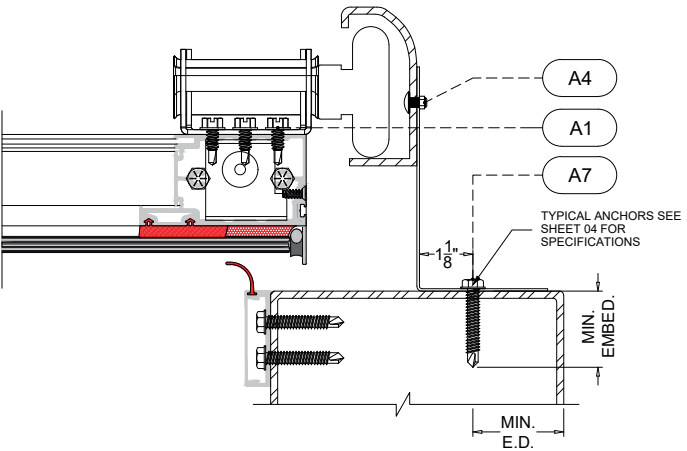
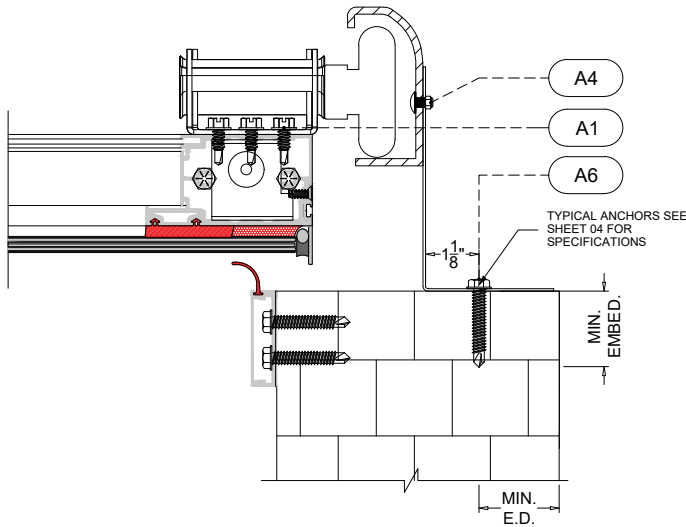
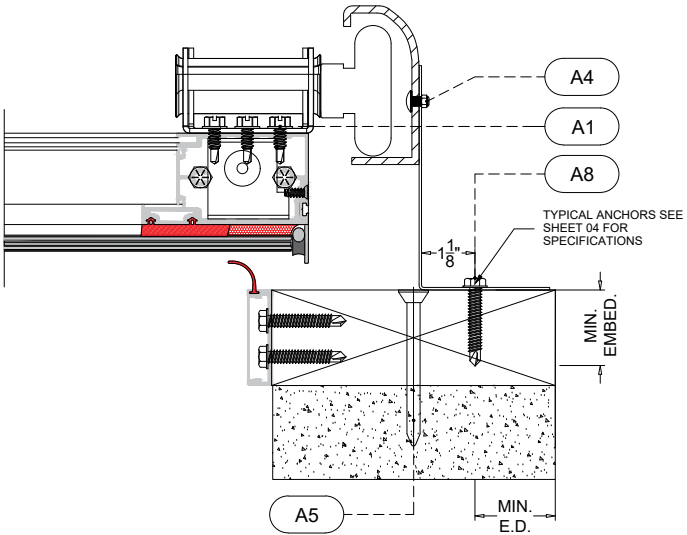
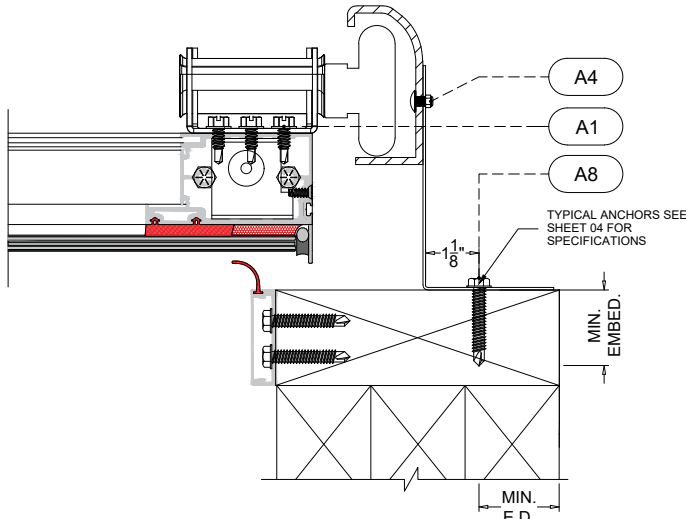
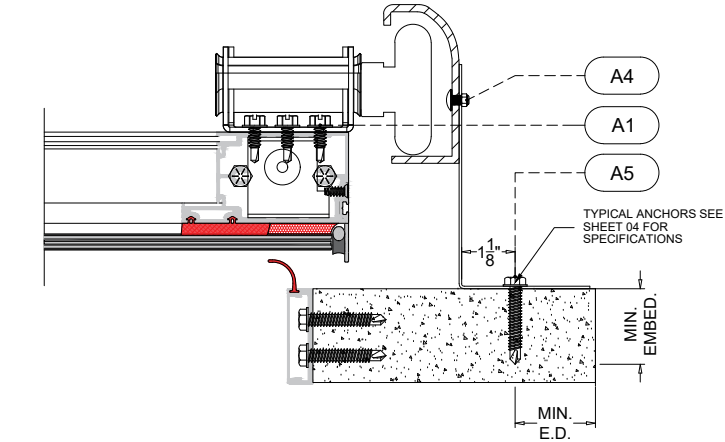
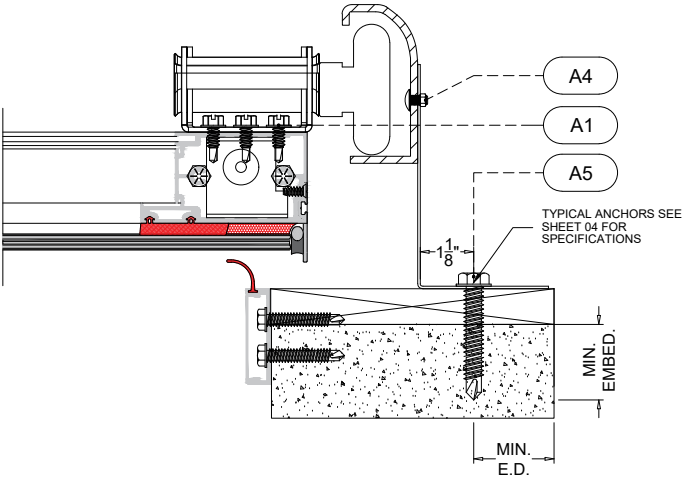
5/16" DIA. LAG SCREWS BY 'DEWALT'
INTO WOOD STRUCTURES
2" MIN. PENETRATION INTO WOOD
AT 6" FROM BOTTOM AND 13" O.C. MAX.

INTO WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD
AT 4" FROM BOTTOM AND 9" O.C. MAX.

SUBSTRATE EDGE DISTANCE:

INTO CONCRETE = 3-1/8" MIN.
INTO FILLED BLOCKS = 4" MIN.
INTO WOOD STRUCTURES = 1-9/16" MIN.
INTO METAL STRUCTURE = 1" MIN.

WOOD SG = 0.55 MIN.
CONCRETE f'c = 3500 PSI MIN.
C-90 GROUT FILLED BLOCK f'm = 2000 PSI MIN.



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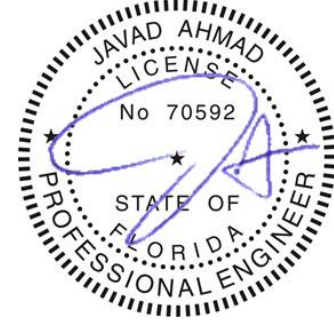
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check by: JA

Drawing no. JA-1594-26

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



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ANCHOR SPECS.

SHEET No.
06 OF 15

ES-GD3020 GARAGE DOOR SELECTION SCHEDULE

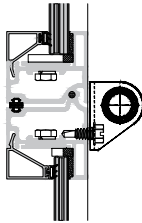
DOOR WIDTH / DESIGN PRESSURE / REINFORCEMENT / GLASS AND PANEL OPTIONS

SELECT THE LOWEST REINFORCEMENT ROW THAT MEETS BOTH REQUIRED POSITIVE AND NEGATIVE DESIGN PRESSURES.
AN OPTION QUALIFIED AT A HIGHER DESIGN PRESSURE IS ALSO PERMITTED AT EVERY LOWER DESIGN PRESSURE FOR THE SAME MAXIMUM DOOR WIDTH.
X = QUALIFIED AT THE SELECTED PRESSURE. DASH = NOT QUALIFIED. EACH G/GP CODE IS INDEPENDENTLY SELECTABLE; A COMBINATION IS NOT REQUIRED.
LISTED CONFIGURATIONS ALSO APPLY TO SMALLER DOOR WIDTHS.

MAXIMUM DOOR WIDTH	INTERMEDIATE MEMBER TYPE	DESIGN PRESSURE - PSF		INDEPENDENTLY SELECTABLE GLASS AND PANEL OPTIONS		
		POSITIVE PSF	NEGATIVE PSF	G1 / G2 / G4 / G5	G3 / G6	GP1 / GP2 / GP3 / GP4
12'-0"	A	+26	-31	X	X	X
	C	+73	-88	X	X	X
	D	+90	-110	X	-	X
	E	+105	-126	X	-	X
14'-0"	A	+19	-23	X	X	X
	C	+54	-65	X	X	X
	D	+66	-79	X	X	X
	E	+77	-93	X	-	X
16'-0"	A	+15	-18	X	X	X
	C	+42	-50	X	X	X
	D	+51	-61	X	X	X
	E	+59	-71	X	X	X
18'-0"	A	+12	-14	X	X	X
	C	+33	-39	X	X	X
	D	+40	-48	X	X	X
	E	+47	-56	X	X	X
20'-0"	A	+10	-12	X	X	X
	C	+27	-32	X	X	X
	D	+33	-39	X	X	X
	E	+38	-46	X	-	X

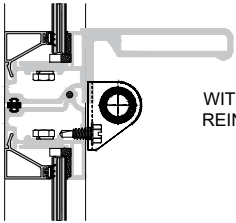
CAPTURED GLAZING / PANEL LEGEND	
CODE	DESCRIPTION / CONSTRUCTION
G1	1/4" HS + 0.090 PVB + 1/8" HS
G2	1/4" HS + 3/8" AIR + 3/16" HS + 0.090 PVB + 3/16" HS
G3	1/8" HS + 0.090 PVB + 1/8" HS
GP1	PENELEX PANEL
GP2	ESKIN PANEL

SSG GLAZING / PANEL LEGEND	
CODE	DESCRIPTION / CONSTRUCTION
G4	1/4" HS + 0.090 PVB + 1/2" HS
G5	1/4" HS + 0.090 PVB + 1/8" HS
G6	1/8" HS + 0.090 PVB + 1/8" HS
GP3	PENELEX PANEL
GP4	ESKIN PANEL



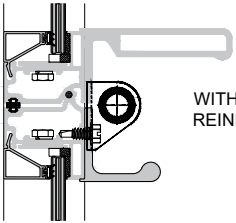
WITHOUT REINFORCEMENT

INTERMEDIATE MEMBER TYPE A



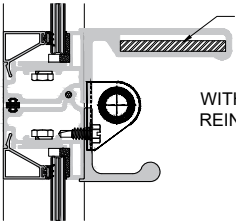
WITH (1) ALUMINUM REINFORCEMENT

INTERMEDIATE MEMBER TYPE C



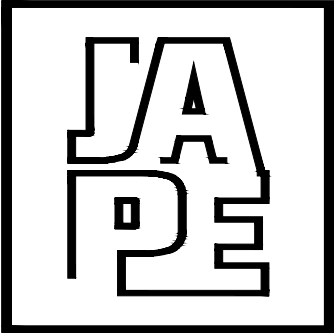
WITH (2) ALUMINUM REINFORCEMENTS

INTERMEDIATE MEMBER TYPE D



WITH 2 ALUMINUM AND (1) STEEL REINFORCEMENTS

INTERMEDIATE MEMBER TYPE E



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PROJECT :

SERIES ES-GD3020
ALUMINUM SECTIONAL GARAGE DOOR
(L.M.I.)

CLIENT :



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

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date: 9/7/2026

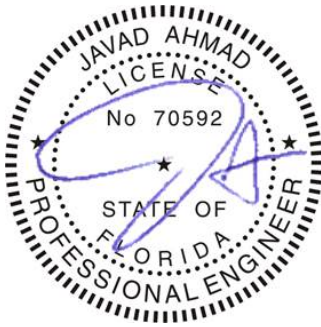
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Drawing no. JA-1594-26

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

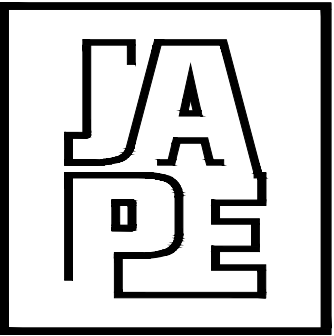
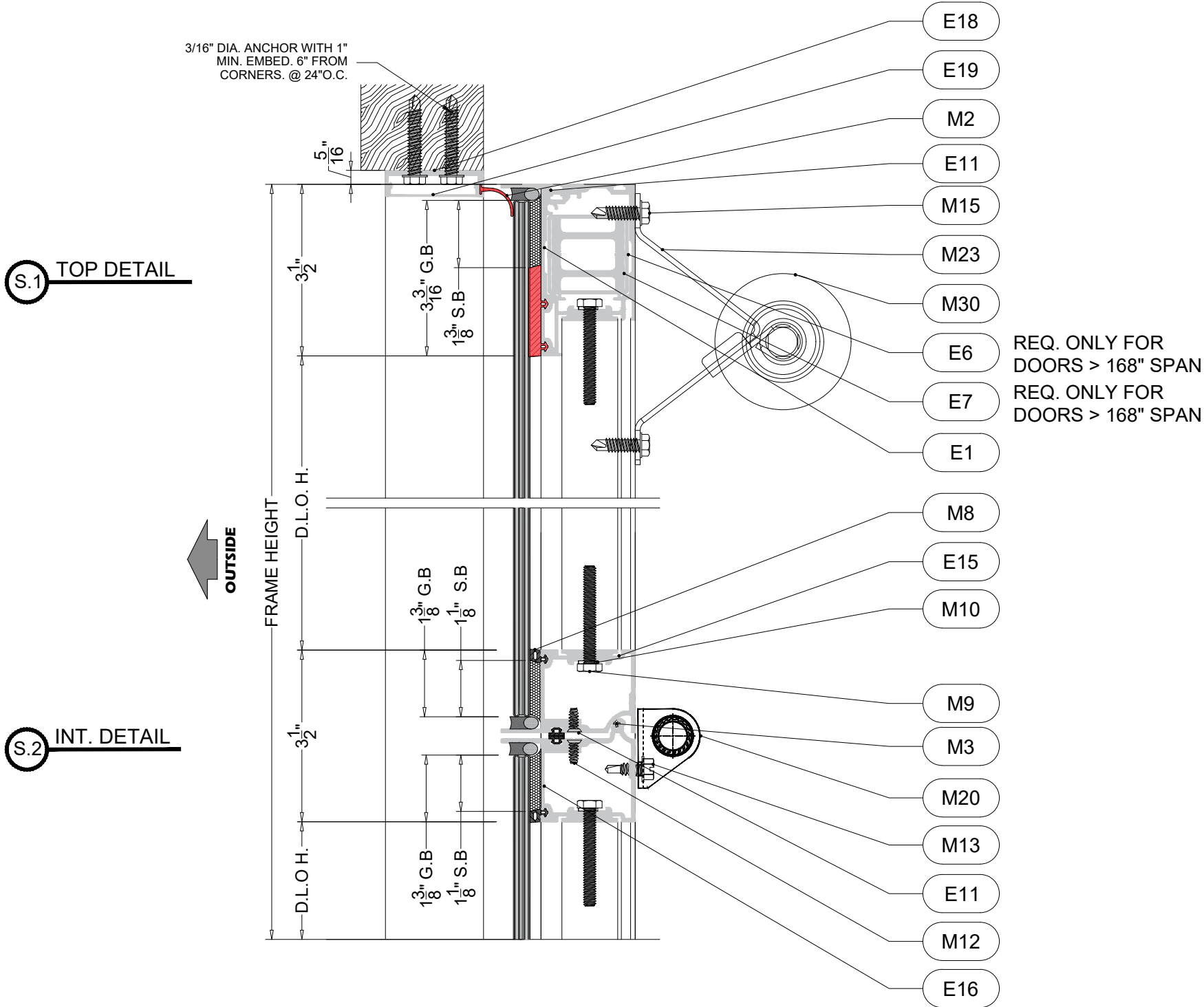


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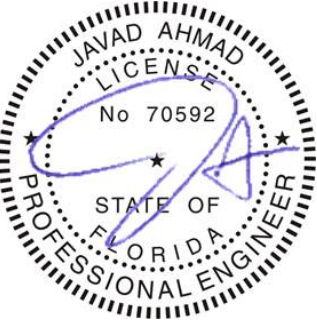


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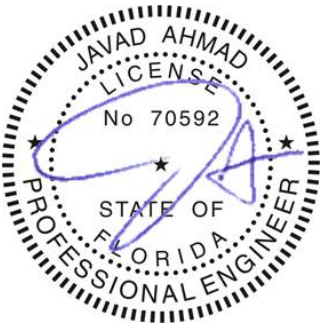
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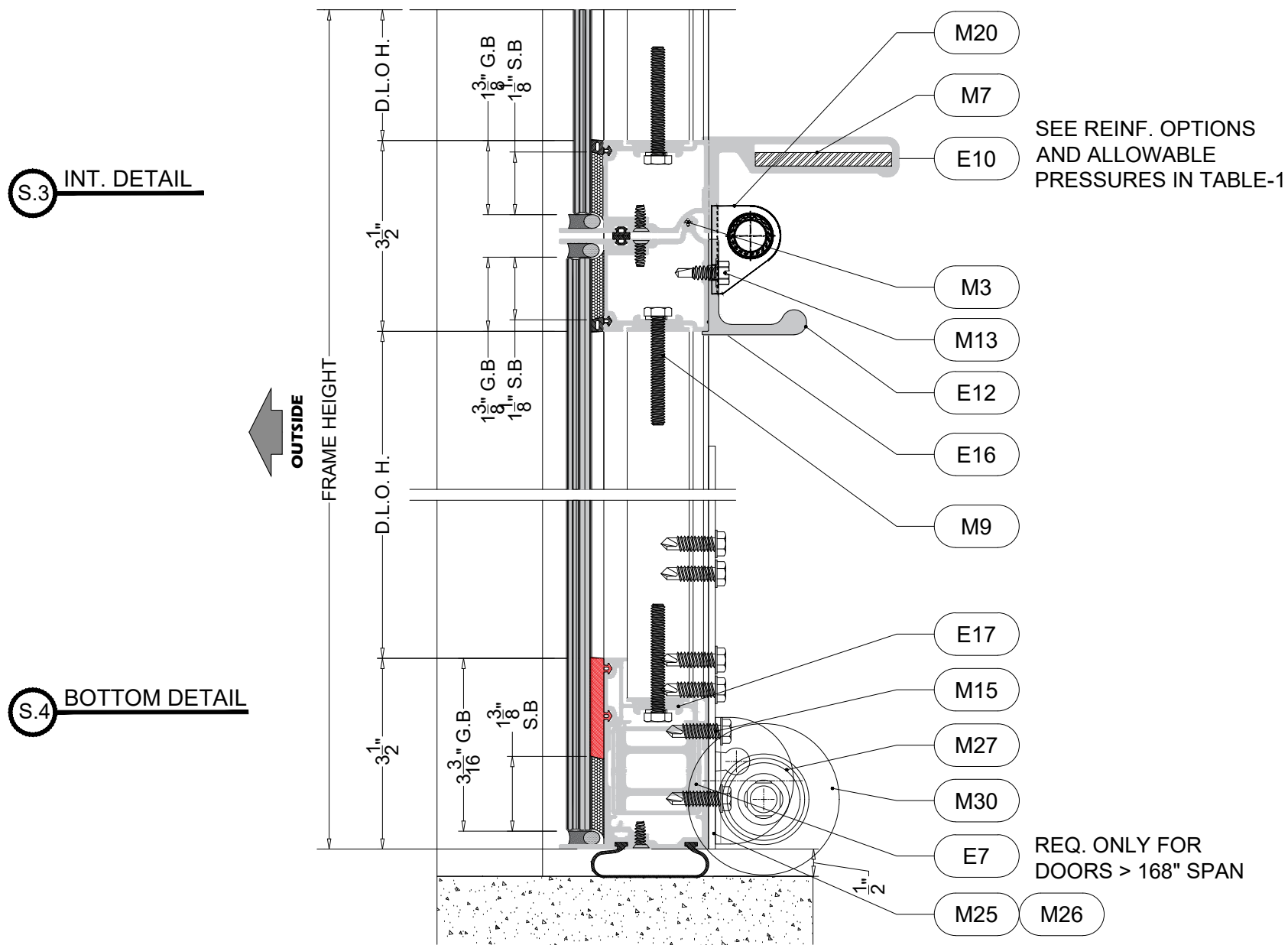


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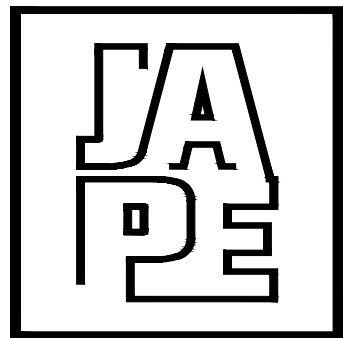
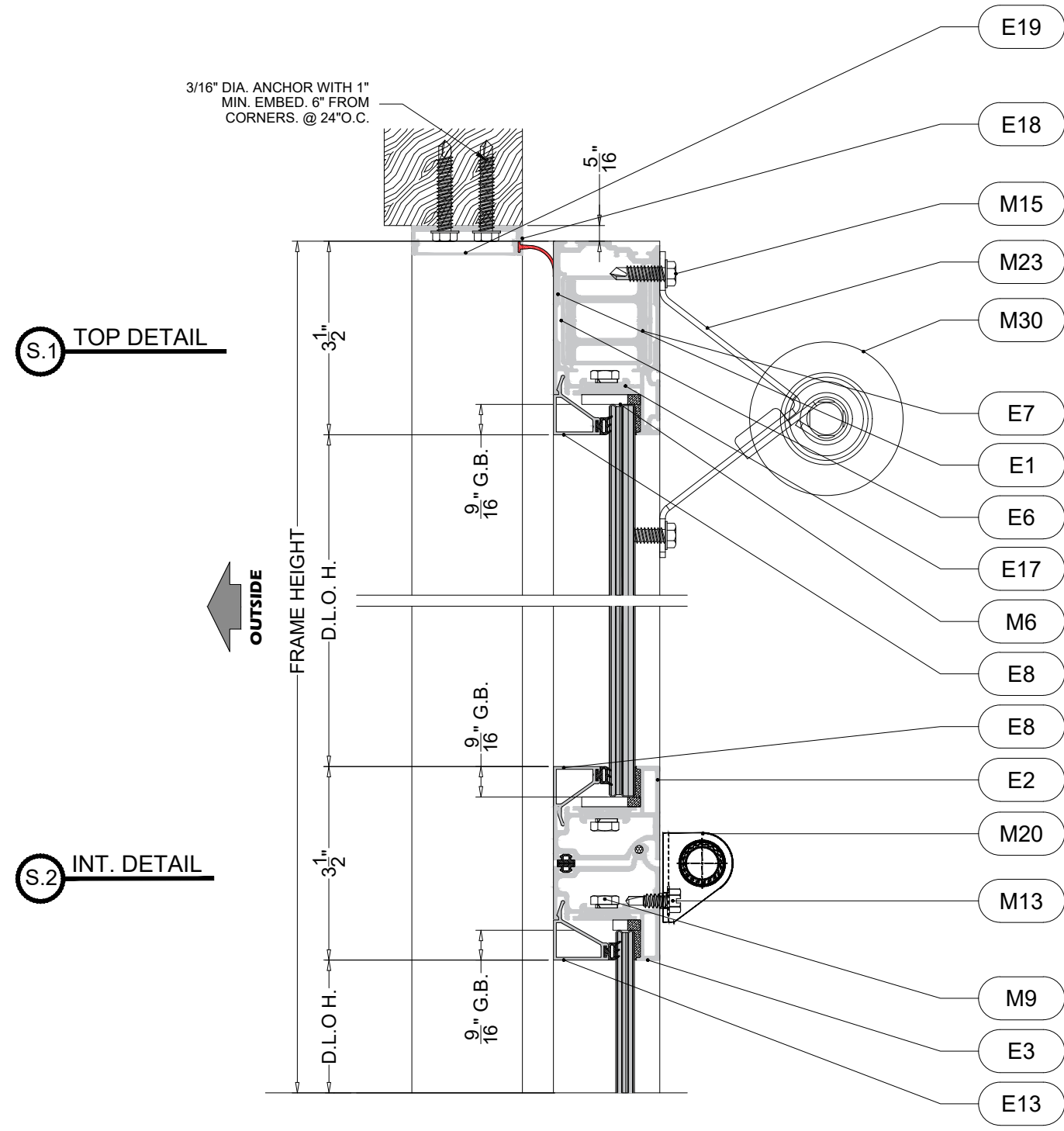
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SECTION DETAILS

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MODERN LOOK GARAGE DOOR DETAILS



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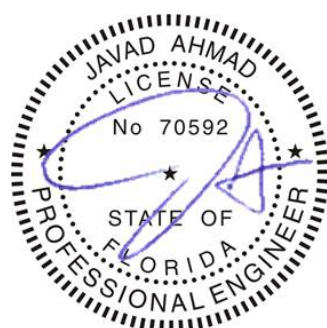
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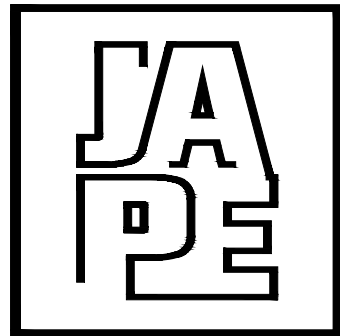
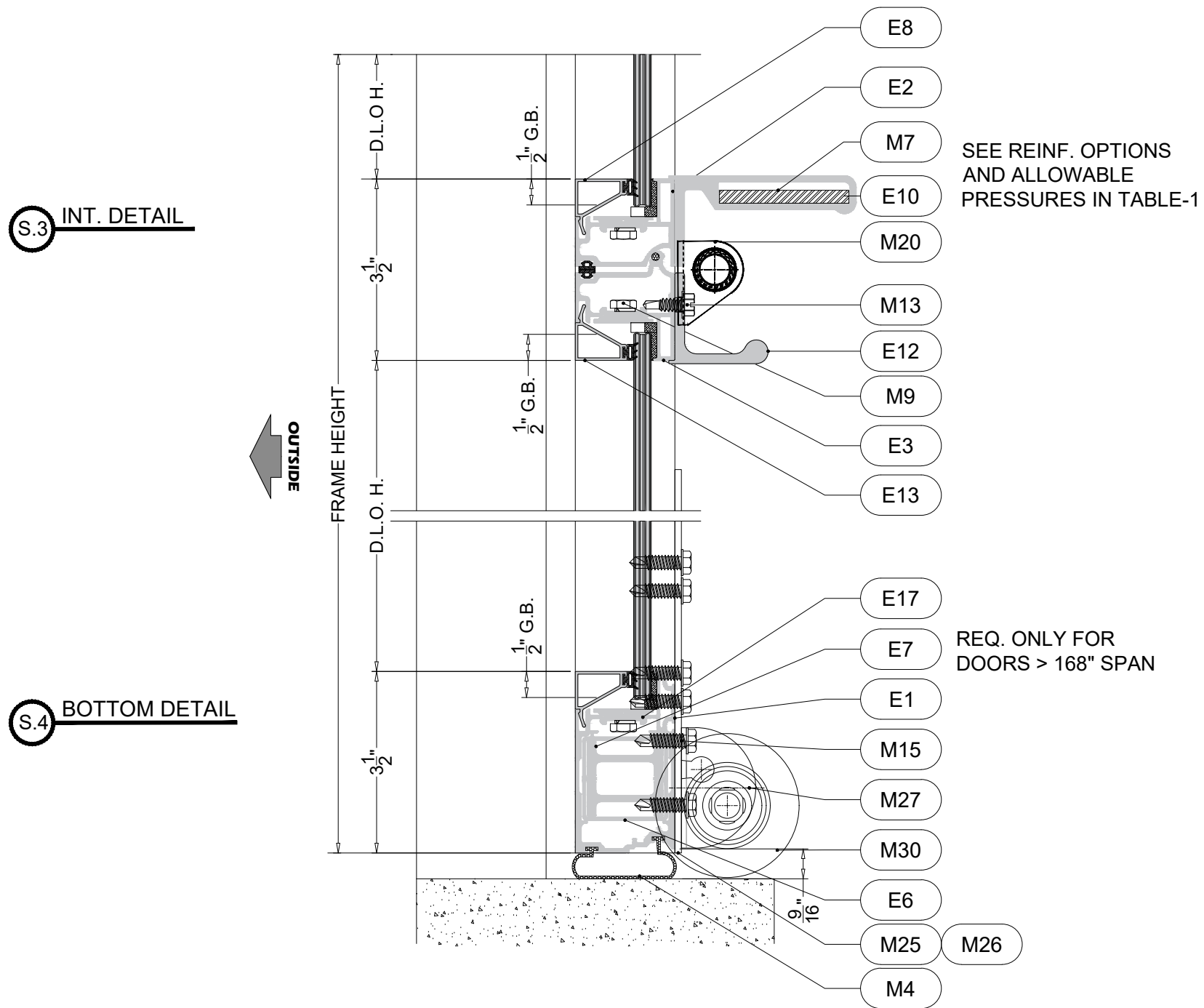
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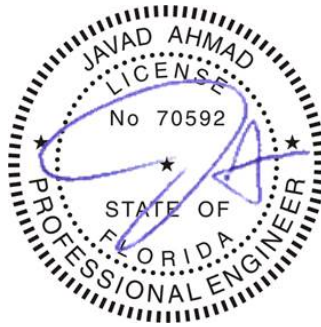
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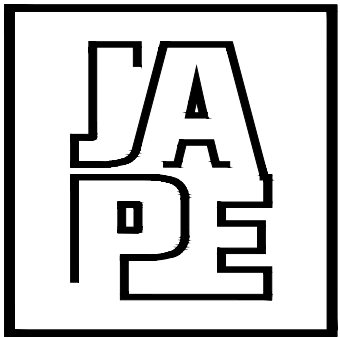
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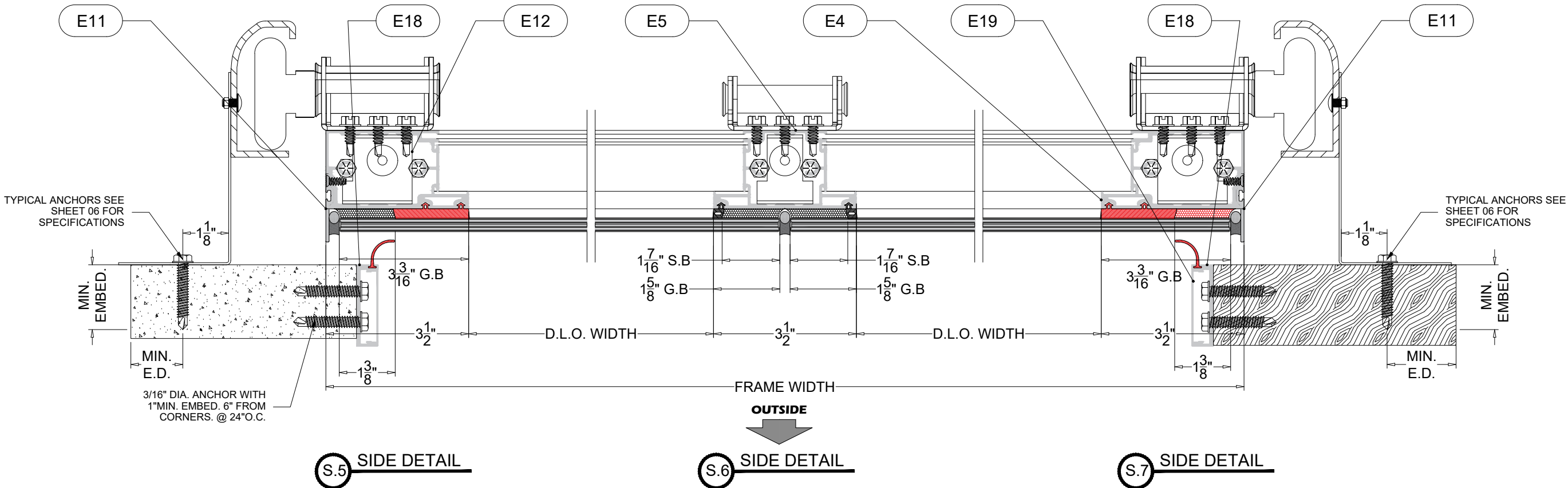


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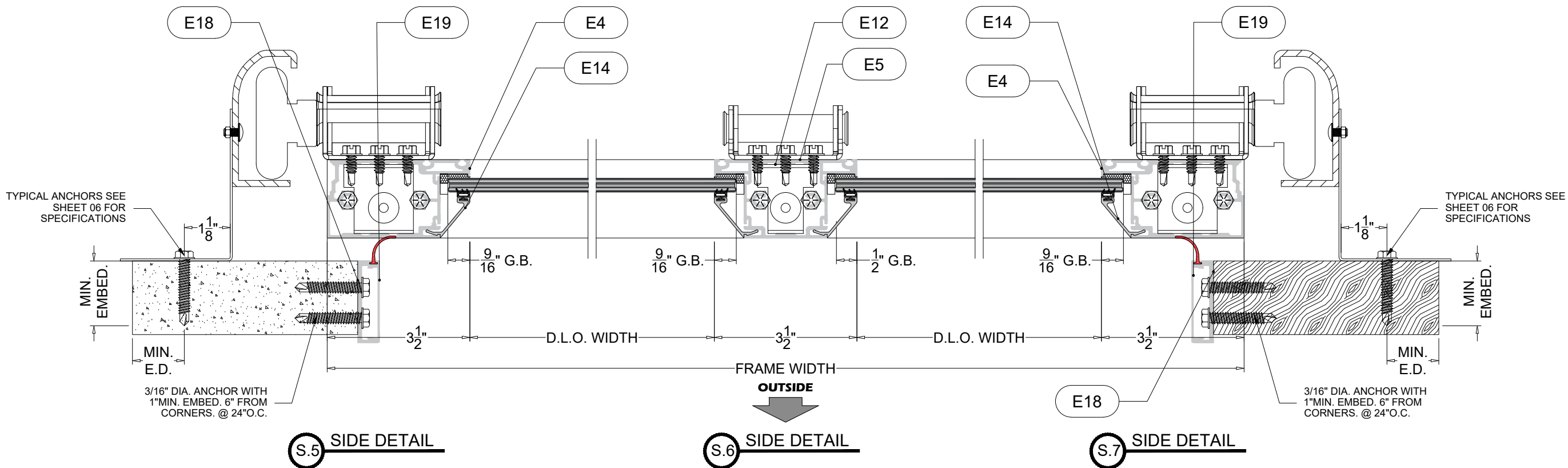
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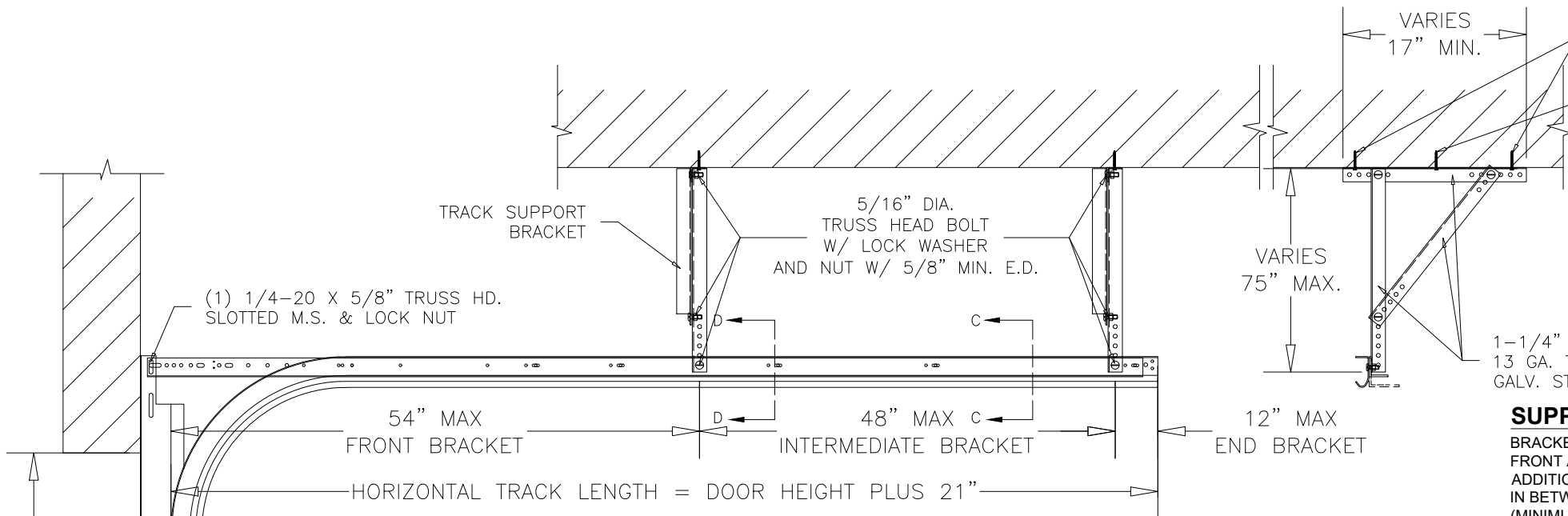
SHEET No.
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MODERN LOOK GARAGE DOOR DETAILS



CONVENTIONAL LOOK GARAGE DOOR DETAILS



NOTE:
IT SHALL BE VERIFIED THAT THE CEILING STRUCTURE CAN SUSTAIN LOADS IMPOSED BY THE DOOR WHEN LEFT IN OPEN POSITION. BRACES MAY BE MOVED IN ORDER TO ENGAGE THE CEILING STRUCTURE. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND ALL CEILING NON STRUCTURAL MATERIAL STUCCO OR CEILING DRESSING.

SUPPORT BRACKET AT EACH TRACK
BRACKETS RUN PERPENDICULAR TO TRACKS. FRONT AND END BRACKETS TO BE SPACED AS SHOWN ABOVE. ADDITIONAL INTERMEDIATE BRACKETS TO BE INSTALLED FOR SPACING 48" MAXIMUM IN BETWEEN FRONT AND END BRACKETS. (MINIMUM OF 2 BRACKETS PER TRACK)

2 BRACKETS FOR 4-PANEL DOOR (8'-3 5/8" MAX. DOOR HEIGHT) = 1,200 LBS APPROX.
3 BRACKETS FOR 5-PANEL DOOR (10'-3 5/8" MAX. DOOR HEIGHT) = 1,500 LBS APPROX.
3 BRACKETS FOR 6-PANEL DOOR (12'-3 5/8" MAX. DOOR HEIGHT) = 1,800 LBS APPROX.
4 BRACKETS FOR 7-PANEL DOOR (14'-3 5/8" MAX. DOOR HEIGHT) = 1,900 LBS APPROX.
5 BRACKETS FOR 8-PANEL DOOR (16'-3 5/8" MAX. DOOR HEIGHT) = 2,000 LBS APPROX.

NOTE: 2,000 LBS MAX. DOOR WEIGHT

BRACKET ANCHORS:
(3) 5/16" DIA. LAG SCREWS BY 'DEWALT'
INTO WOOD STRUCTURES, (S.G.=0.50)
1-1/2" MIN. PENETRATION

(2) 1/4" DIA. ULTRACON+ BY 'DEWALT' Fu=164 KSI, F=148 KSI
INTO CONCRETE, (3000 PSI MIN.)
1-3/4" MIN. EMBED

ANCHORING TO CEILING OTHER THAN WOOD OR CONCRETE TO BE REVIEWED SEPARATELY.

SAMPLE 1:
84" TALL DOOR WOULD REQUIRE A 105" LONG HORIZONTAL TRACK. 72" + 21" = 1105"

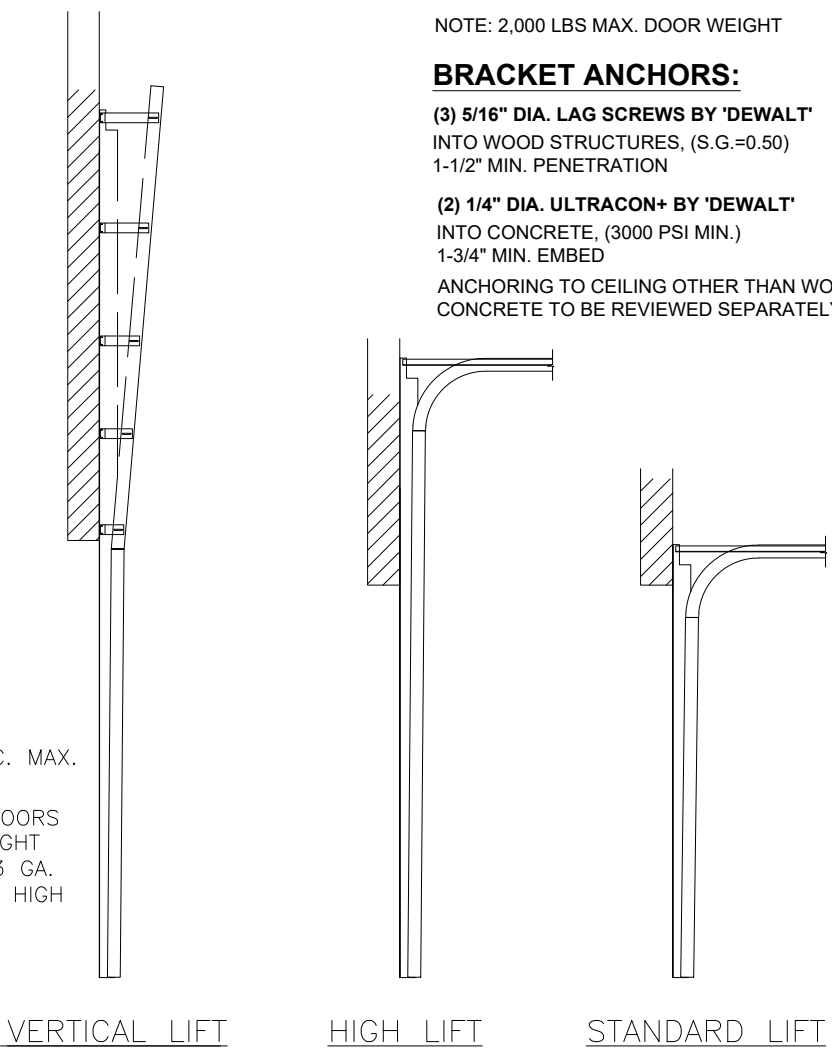
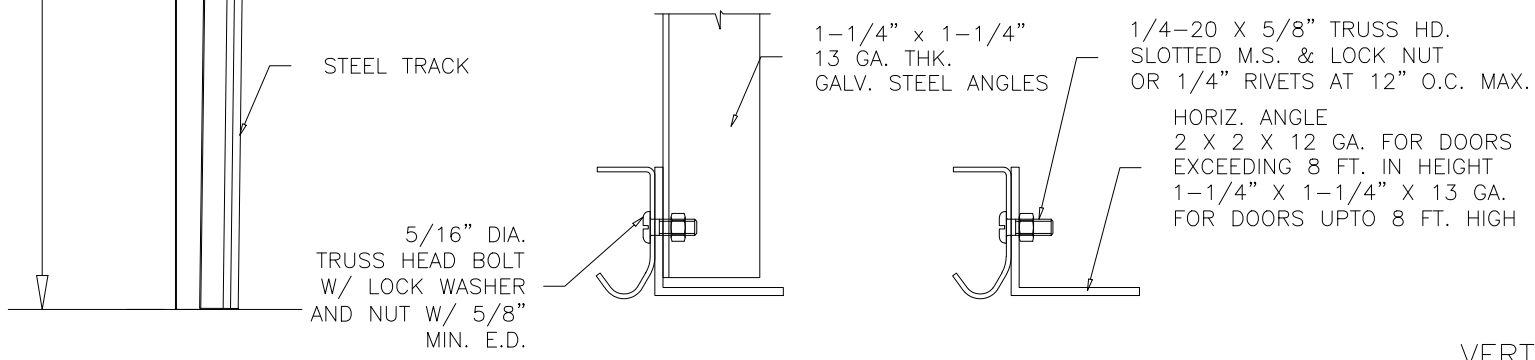
SAMPLE 2:
96" TALL DOOR WOULD REQUIRE A 117" LONG HORIZONTAL TRACK. 96" + 21" = 117"

TRACK SUPPORT BRACKET SCHEDULE		
HORIZ. TRACK LENGTH	MAX. DOOR WEIGHT	MIN. BRACKETS PER TRACK
≤105"	1,200 LB	2
>105" – 123"	1,500 LB	3
>123" – 148"	1,800 LB	3
>148" – 172"	1,900 LB	4
>172" – 196"	2,000 LB	5

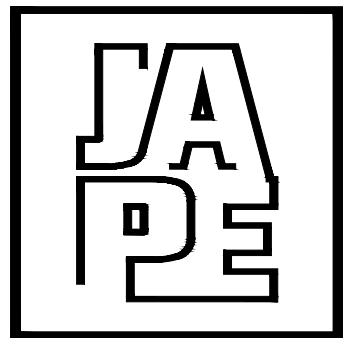
NOTES:

- BRACKET SPACING SHALL NOT EXCEED 54" AT THE FRONT, 48" BETWEEN INTERMEDIATE BRACKETS, OR 12" AT THE END.
- 2" STEEL TRACK SHALL UTILIZE THE BRACKET QUANTITIES INDICATED ABOVE. A MINIMUM OF TWO (2) BRACKETS PER TRACK SHALL BE PROVIDED UNLESS A REDUCED QUANTITY IS SPECIFICALLY PERMITTED BY THE ENGINEERING DESIGN.

OPENING HEIGHT
DOOR HEIGHT



AVAILABLE TRACK OPTIONS



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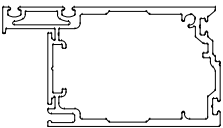
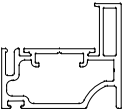
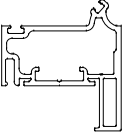
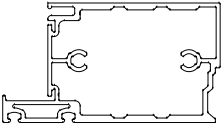
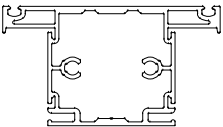
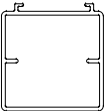
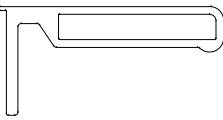
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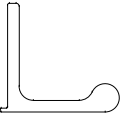
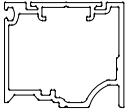
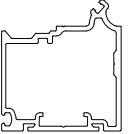
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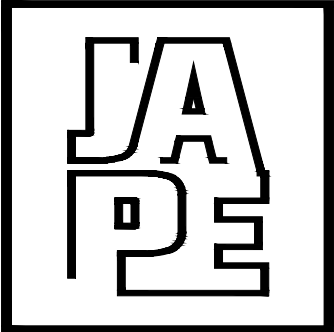
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EXTRUSIONS ES-GD3020				
CODE	PART	DETAIL	DESCRIPTION	ALLOY
E1	ES-GD3020-001		FRAME HEAD & SILL	6005-T5
E2	ES-GD3020-002		INTERMEDIATE HORIZONTAL TOP	6005-T5
E3	ES-GD3020-003		INTERMEDIATE HORIZONTAL BOTTOM	6005-T5
E4	ES-GD3020-004		FRAME JAMB	6005-T5
E5	ES-GD3020-005		INTERMEDIATE VERTICAL	6005-T5
E6	ES-GD3020-006		SUPPORT HEAD & SILL	6005-T5
E7	ES-GD3020-007		REINFORCEMENT HEAD & SILL	6005-T5
E8	ES-GD3020-012		GLASS STOP 1/2" SQUARE	6063-T6
E9	ES-GD3020-013		GLASS STOP 1/2"	6063-T6
E10	ES-GD3020-014		REINFORCEMENT	6063-T6
E11	ES-GD3020-016		TRIM FOR SSG	6063-T6

EXTRUSIONS ES-GD3020				
CODE	PART	DETAIL	DESCRIPTION	ALLOY
E12	ES-GD3020-015		REINFORCEMENT B	6005-T5
E13	ES-GD3020-018		GLASS STOP 9/32" SQUARE	6063-T6
E14	ES-GD3020-019		GLASS STOP 9/32"	6063-T6
E15	ES-GD3020-020		INTERMEDIATE HORIZONTAL TOP FOR SSG	6005-T5
E16	ES-GD3020-021		INTERMEDIATE HORIZONTAL BOTTOM FOR SSG	6005-T5
E17	ALU-P-012		PLATINUM SPACER	6063-T6
E18	ES-PGD3040-011A		VERTICAL/HORIZONTAL SEAL SUPPORT	6063-T6
E19	ES-PGD3040-012A		VERTICAL/HORIZONTAL SEAL COVER	6063-T6



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

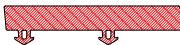
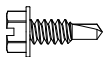


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FL# 48401.1

PROFILES

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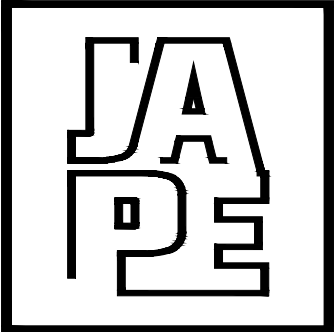
MISCELLANEOUS ES-GD3020			
CODE	PART	DETAIL	DESCRIPTION
M1	ES-PGD3040-G01 S		FOR INTERMEDIATE HORIZONTAL
M2	ES-PGD3040-G02 S		FRAME
M3	ES-PGD3040-G03 S		SILICONE GASKET
M4	EMP-915 ES-GD3020-G02 S		BOTTOM SEAL
M5	EMP-847 ES-EL150-G01 S		GLAZING (SEE NOTE)
M6	EMP-629 NP-200-B02A S		GLAZING (SEE NOTE)
M7	EMP-914 ES-GD3020-G01 S		GLAZING (SEE NOTE)
M8	EMP-223 ES-UN625-G02 S		GLAZING (SEE NOTE)
M9	SCREW 1/4x2 HWH TYPE AB INOX		FOR JAMB
M10	LOCK WASHER, 3/8" 300 SERIES STAINLESS STEEL		FOR 3/8-16 × 2" SCREW
M11	SCREW 12x1/2 PH PAN SELF DRILLER 18-8SS		FOR SUPPORT
M12	SCREW 10x1/2 Phil Flat TpA 18-8ss UnderCut		TRIM FOR SSG
M13	SCREW 1/4x3/4 HWH SELF DRILL SCREW 18-8ss		FOR REINFORCEMENT TOP/BOTTOM
M14	1/4" S.S. BOLT		BOLT
M15	SCREW 1/4*1		SCREW
M16	ES-PGD-1110		SHORT BRACKET 1
M17	ES-PGD-1200		LARGE BRACKET 2

MISCELLANEOUS ES-GD3020			
CODE	PART	DETAIL	DESCRIPTION
M19	ES-PGD-1300		LARGE BRACKET 3
M20	ES-PGD-1110A		ADJUSTABLE ROLLER CARRIER / BRACKET
M21	ES-PGD-1400		LARGE BRACKET 4
M22	ES-PGD-1500		#5 HINGE
M23	ES-PGD-1600A		TOP BRACKET
M24	ES-PGD-1610A		TOP ROLLER HOLDER
M25	ES-PGD-1810A		BOTTOM BRACKET LEFT
M26	ES-PGD-1820A		BOTTOM BRACKET RIGHT
M27	ES-PGD-1830A		BOTTOM WHEEL HOLDER
M28	ES-PGD-1840		PIN + RETAINER
M29	ES-PGD-1900		HEAVY DUTY INSIDE DEADLOCK
M30	ES-PGD-8300		WHEEL ASSEMBLY 3"
M31	SIW2015		DOOR TRACK FOR 3"
M32	SIW2015B		INSTALLATION ANGLE
M33	SIW2016		TRACK BRACKET
M34	ES-PGD-8200		WHEEL ASSEMBLY 2"



GLAZING GASKET

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)



JAVAD AHMAD PE, inc

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

PROJECT :

SERIES ES-GD3020
ALUMINUM SECTIONAL GARAGE DOOR
(L.M.I.)

CLIENT :



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

REVISION

No.	DATE	BY	DESCRIPTION
1	9/7/2026	JM	2026 FBC UPDATE

date: 9/7/2026

scale: N/A

drawn by: M.S.

check by: JA

Drawing no. JA-1594-26

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



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HARDWARE

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