

ESA 200 AUTOMATIC SLIDING GLASS DOOR
NON-IMPACT RESISTANT - PARTIAL BREAKOUT
HVHZ

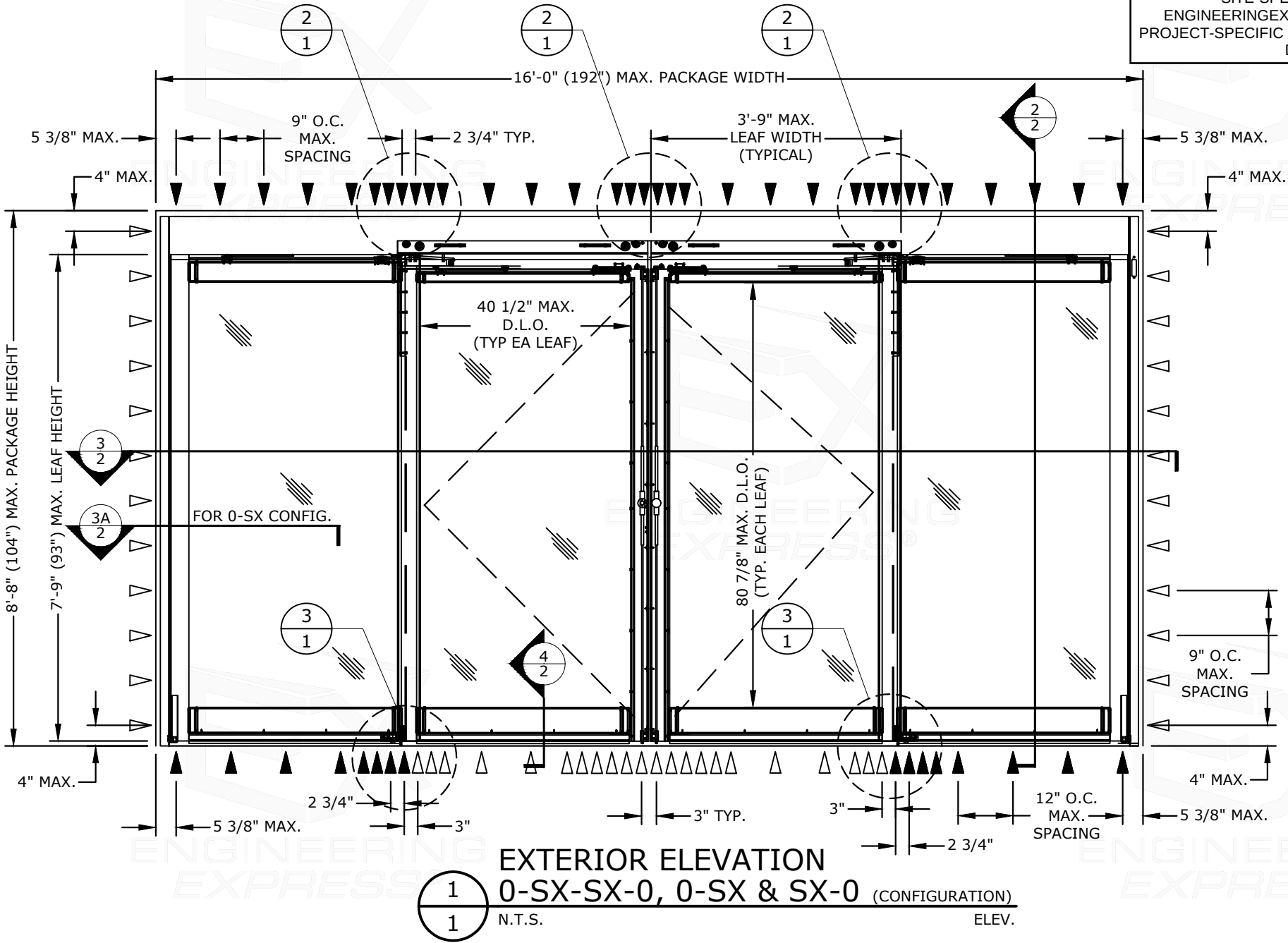
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NON-SITE-SPECIFIC STRUCTURAL PERFORMANCE EVALUATION. THIS PRODUCT EVALUATION IS VALID FOR USE IN FLORIDA ONLY. USE OF THIS EVALUATION REQUIRES A REVIEW & CERTIFICATION BY A LOCAL DESIGN PROFESSIONAL WHO SHALL BE RESPONSIBLE FOR THE PROPER ADAPTATION OF THIS GENERAL PERFORMANCE EVALUATION TO ANY SITE-SPECIFIC PROJECT. CONTACT THIS OFFICE AT ENGINEERINGEXPRESS.COM/QUOTE FOR ASSISTANCE WITH YOUR PROJECT-SPECIFIC NEEDS & FOR ADAPTATION & CERTIFICATION OF THIS DOCUMENT OUTSIDE OF FLORIDA.

SEALING ENGINEER
PE# 0046549 CA# 9885

SEPTEMBER 19, 2023

Digitally signed by
Frank Bennardo
Date: 2023.10.09
13:40:54 -04'00'



DESIGN PRESSURE RATING			
GLAZING TYPES	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED.	WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED.	
	"A", "C" OR "D" *	"A" *	"C" OR "D" *
POSITIVE	NOT APPROVED	+ 55.0 PSF	+ 52.4 PSF
NEGATIVE	NOT APPROVED	- 55.0 PSF	- 52.4 PSF

- * SEE GLAZING SCHEDULE ON SHEET "2"
- GENERAL NOTES:**
- THIS PRODUCT HAS BEEN TESTED & DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE EIGHTH EDITION (2023) - HIGH VELOCITY HURRICANE ZONE (HVHZ) - AND HVHZ TEST PROTOCOL TAS 202 AS A NON-IMPACT RESISTANT SYSTEM. THE SYSTEM CAN BE USED WITHIN AND OUTSIDE THE HVHZ
 - NO 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS SYSTEM. WIND LOAD DURATION FACTOR Cd=1.6 HAS BEEN USED FOR WOOD ANCHOR DESIGN.
 - POSITIVE & NEGATIVE DESIGN PRESSURES CALCULATED FOR USE WITH THIS SYSTEM SHALL BE DETERMINED BY OTHERS ON A JOB-SPECIFIC BASIS IN ACCORDANCE WITH THE GOVERNING CODE.
 - THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. WHERE SITE CONDITIONS DIFFER FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS DOCUMENT.
 - PERMIT HOLDER SHALL VERIFY THE ADEQUACY OF THE EXISTING STRUCTURE TO WITHSTAND ADDITIONAL IMPOSED LOADS. WOOD BUCKS NOT BY THIS PRODUCT MANUFACTURER SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE HOST STRUCTURE.
 - THE PRODUCT DETAILED HEREIN HAS BEEN DESIGNED AND TESTED TO THE MAXIMUM SPANS & LOADS SHOWN ON THESE DRAWINGS.
 - ALL ALUMINUM EXTRUSIONS ARE 6063-T5 OR 6063-T6 ALUMINUM.
 - ALL UNITS SHALL BE INSTALLED WITH AN APPROVED IMPACT RESISTANT SYSTEM WITHIN THE HVHZ, AND WHERE REQUIRED BY CODE.
 - ANCHORS SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS, SPACED AS NOTED HEREIN. ANCHOR EMBEDMENT TO BASE MATERIAL DOES NOT INCLUDE WALL DRESSING OR STUCCO.
 - ALL BOLTS & WASHERS SHALL BE ZINC COATED, GALVANIZED, OR STAINLESS STEEL WITH A MINIMUM TENSILE STRENGTH OF 60 KSI, EXCEPT INSTALLATION ANCHORS.
 - ALL STEEL IN CONTACT WITH ALUMINUM SHALL BE PAINTED OR COATED.
 - STRUCTURAL SILICONE ADHESIVE IS APPLIED ATOP OF HEADER, JAMBS, AND BELOW SIDE GUIDE, SPACER, AND THRESHOLDS.
 - WATERPROOFING IS BY OTHERS AND IS NOT INCLUDED IN THIS CERTIFICATION

ANCHOR LEGEND:

INDICATES SINGLE ANCHOR (INLINE)

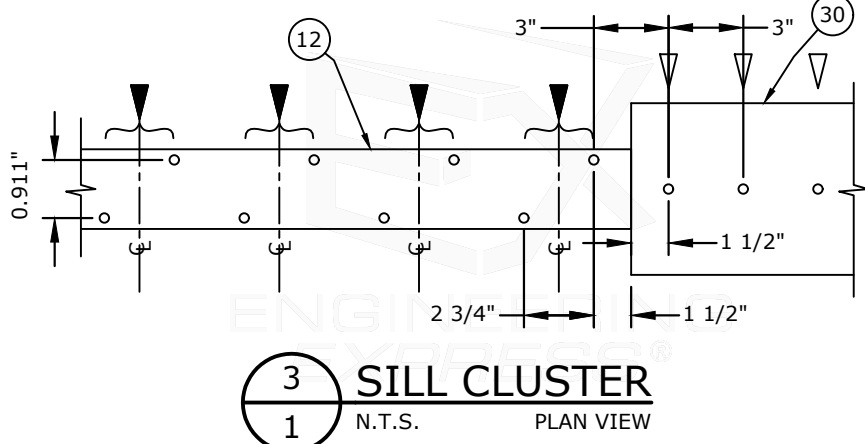
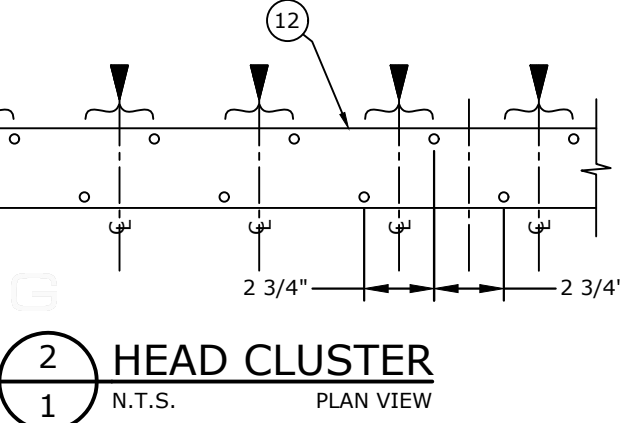
INDICATES STAGGERED PAIR OF ANCHORS (CENTERLINE SHOWN ON ELEVATION)

VISIT ECALC.IO/66889b

FOR SITE SPECIFIC DEVIATIONS & MORE INFORMATION ABOUT THIS DOCUMENT OR SCAN THIS QR CODE

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- INDEX**
- SHEET # | DESCRIPTION
- COVER SHEET
 - SECTIONS
 - BOM
 - EXTRUSIONS
- 4 TOTAL SHEETS



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FLORIDA STATEWIDE APPROVAL (FSA FL#21866.2)

REMARKS	DRWN	CHKD	DATE
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NAME CHANGE	ZAR	FLB	10/18/17
2020 FBC (20-29496)	CCB	AJP	10/05/20
2023 FBC	AMZ	RMS	09/19/23

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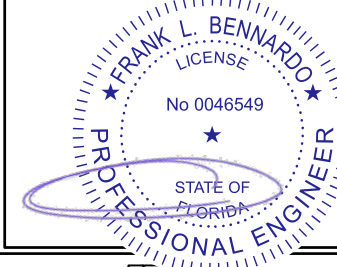
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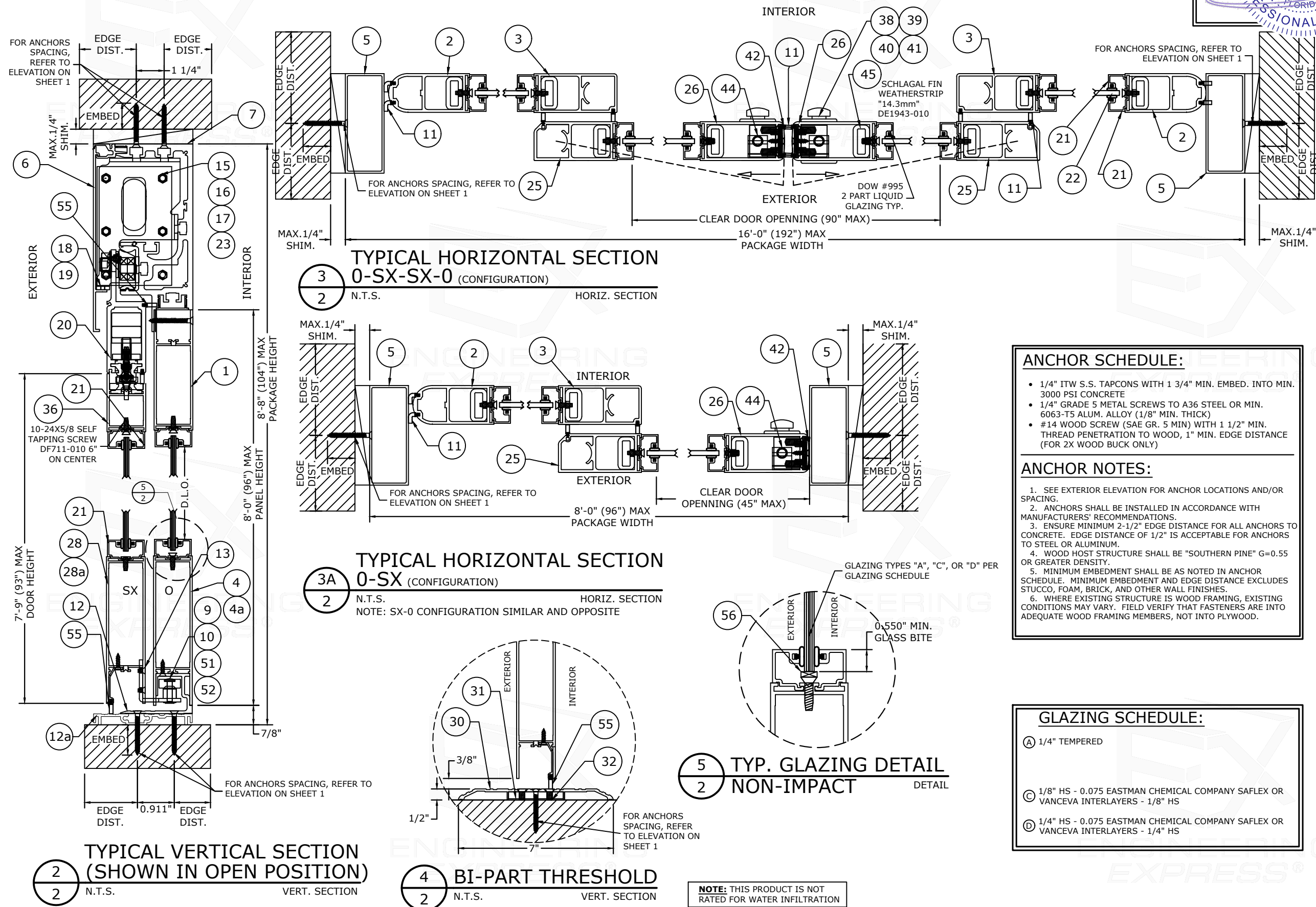
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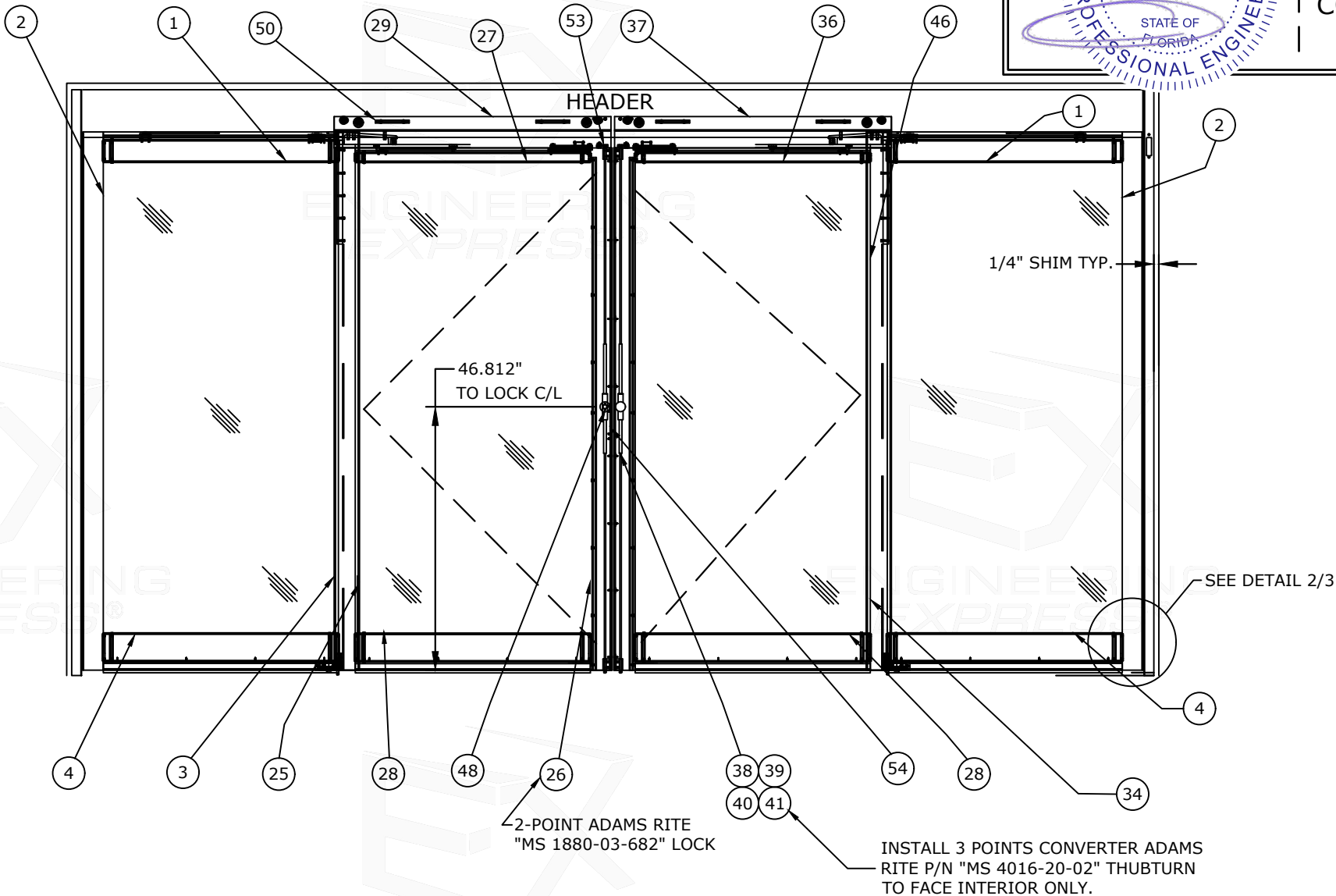
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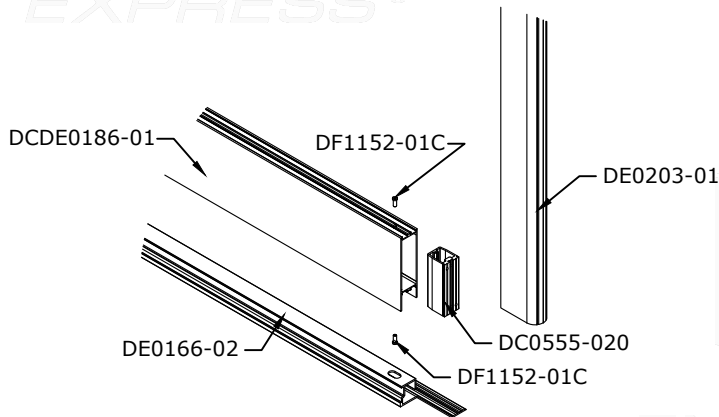
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BILL OF MATERIALS

ITEM	PART NUMBER	DESCRIPTION	QTY
1	DE0163-01	O TOP RAIL PANEL	2
2	DE0203-01	O PIVOT RAIL	2
3	DE0202-01	O INTERLOCK RAIL	2
4	DE0186-01	O BOTTOM RAIL PANEL	2
4a	DE0187-02	9 1/4" ALTERNATE O BOTTOM RAIL PANEL	2
5	DE0200-01	JAMB DOUBLE POCKET	1
6	DE0158-03	HEADER FACEPLATE	1
7	DE0155-04	HEADER	1
8	DE0159-02	HEADER ADAPTER	1
9	DS1894-010	O-SX BOTTOM GUIDE BRACKET PIVOT ASSEMBLY	1
10	DS1893-010	SX-O BOTTOM GUIDE BRACKET PIVOT ASSEMBLY	1
11	DE2212-020	WEATHERSTRIP "13.4mm"	8
12	DE0166-020	BOTTOM GUIDE TRACK	1
12a	DE0209-01	BOTTOM GUIDE RECESSED TRACK	1
13	DF0394-01A	1/4-20X1/2 UNC PHILPS FLAT MS CLEAR	8
14	DC2185-010	SIDE CARRIER	2
15	DC1498-010	HEADER BACK BLOCK	2
16	DF0728-01Z	1/4-20X1" HX-HD MS GR5 ZINC	10
17	DF0939-01Z	A6.4(M6) SPRING WASHER ZINC	10
18	DC0831-010	COVER HOLDING BAR	1
19	DF0999-01Z	10-24X3/4" PH FL HD UNC ZINC	4
20	DE1767-010	GLASS STOP EXT. (6063-T5)	1
21	DE0210-010	GLASS STOP 1/4" SNAP INT. (6063-T5)	1
22	DE0148-020	GLAZING BEAD CO-EXTRUSION	1
23	DF0385-010	RIVET NUT 1/4-20 SF UNC IFC STEEL	10
25	DE0215-01	SX PIVOT RAIL	1
26	DE0201-02	VERTICAL LOCK RAIL	2
27	DS1736-010	SX TOP RAIL ASSEMBLY	1
28	DE0188-01	SX BOTTOM RAIL ASSEMBLY	2
28a	DE0187-02	9 1/4" ALTERNATE SX BOTTOM RAIL ASSEMBLY	2
29	DS1724-010	CARRIER ASSEMBLY	1
30	DE0246-01A	THRESHOLD BI-PART (MACHINED)	1
31	DC0837-010	BOTTOM PLATE	1
32	DF0848-01Z	1/4-20X1/2 FL HD SOC SC ZINC	4
34	DS1735-010	SX PIVOT ASSEMBLY	1
36	DE0162-020	SX TOP RAIL PANEL	1
37	DS1833-010	CARRIER ASSEMBLY	1
38	DC0572-00A	LOCK CYLINDER RING CLEAR/DC0572-00B	1
39	DC0571-00A	KEY LOCK CYLINDER -CLEAR/ DC0571-00B	1
40	DC0621-00A	THUMB KEY-CLEAR/ DC0621-00B-DARK BRONZE	1
41	DC2057-010	3 POINTS CONVERTER ADAMS RITE P/N "MS 4016-20-02"	1
42	DC1766-010	ASTRAGAL- L.H	1
43	DC1701-010	ASTRAGAL- R.H	1
44	DC1497-010	LATCH BLOCK	4
45	DC1700-010	PUSH BAR	2
46	DS1730-010	O-INTERLOCK RAIL ASSEMBLY	1
48	DC2055-010	2 WAY BOLT ADAMS RITE P/N "MS 1880-03-682"	1
50	DC0838-010	ANTI-DERAIL BLOCK	4
51	DC0958-010	SX BOTTOM GUIDE ROLLER WHEEL	2
52	DF1248-010	M6X20 BUTTON CAP SCREW	2
53	DC1978-01Z	BREAKOUT STOP	2
54	DC2492-01Z	CATCH PLATE	1
55	DE0152-120	BRUSH	8
56	-	83 +/- 5 SHORE A DUROMETER SETTING BLOCK CENTERED AT 1/4 POINTS	



1 EXTERIOR ELEVATION
N.T.S. ELEV.



2 CORNER DETAIL
N.T.S. ELEV.

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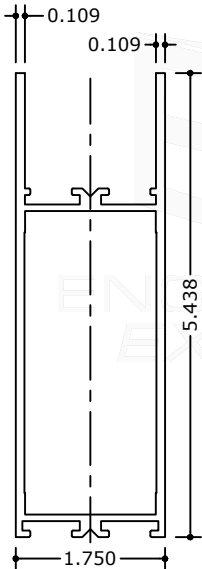
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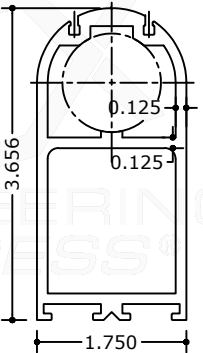
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EXTRUSIONS

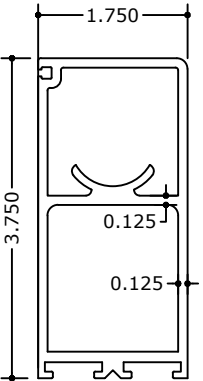
6063-T5 OR 6063-T6



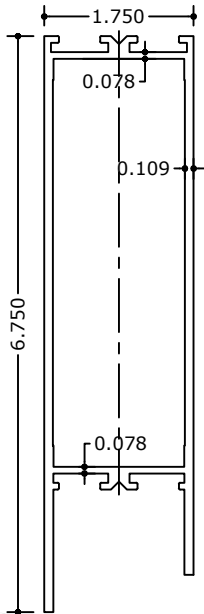
1 TOP RAIL O PANEL



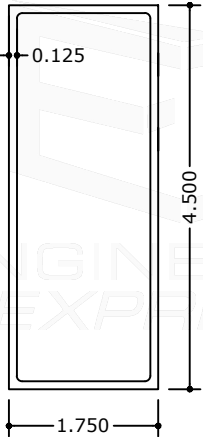
2 O - PIVOT RAIL



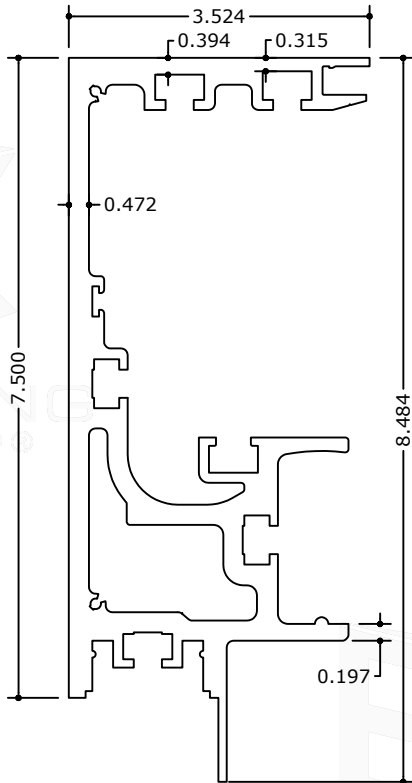
3 INTERLOCK RAIL



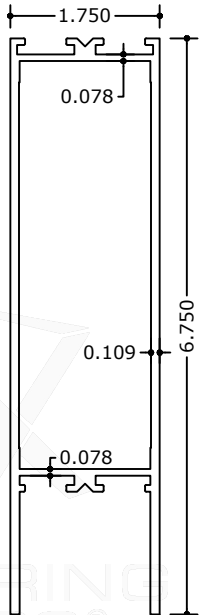
4 BOTTOM RAIL O PANEL



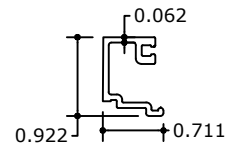
5 JAMB



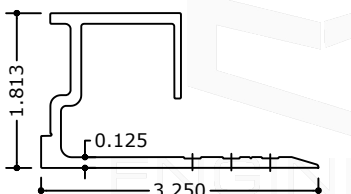
7 HEADER



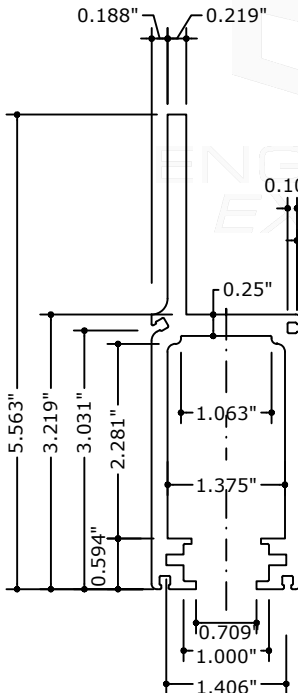
28 BOTTOM RAIL SX PANEL



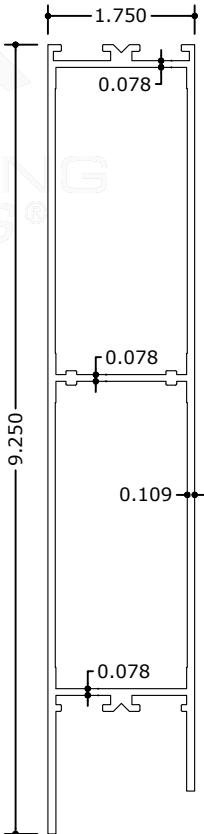
21 GLASS STOP 1/4" SNAP



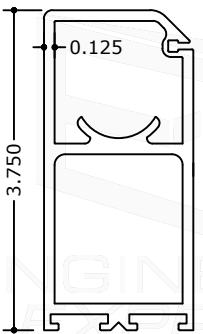
12 BOTTOM GUIDE OSX TRACK



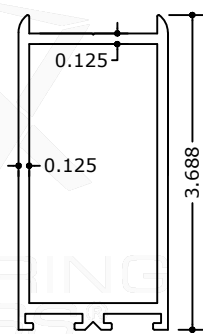
14 SIDE CARRIER



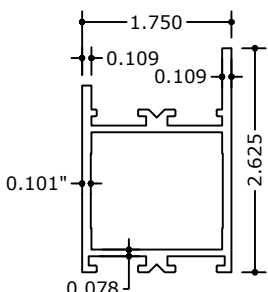
4a ALT 9/4" BOTTOM RAIL O PANEL



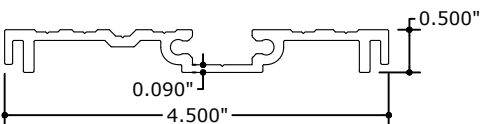
25 SX PIVOT RAIL



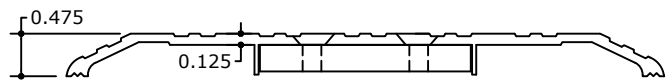
26 VERTICAL LOCK RAIL



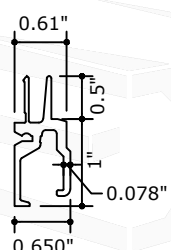
36 TOP RAIL SX PANEL



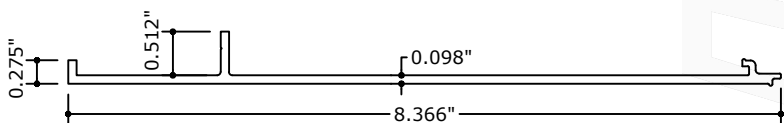
12a BOTTOM GUIDE RECESSED TRACK



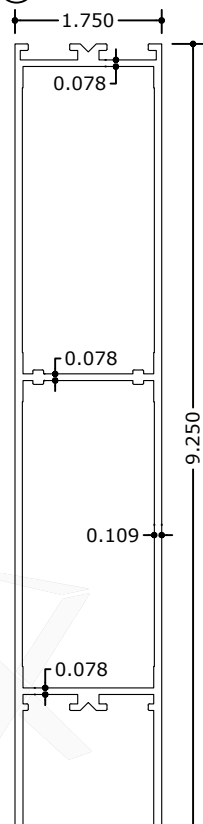
30 BI-PART THRESHOLD



8 HEADER ADAPTER

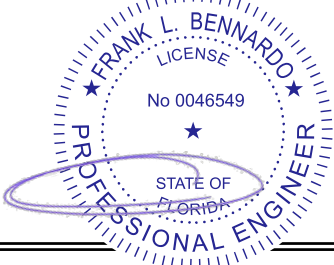


6 HEADER FACEPLATE



28a ALT 9/4" BOTTOM RAIL SX PANEL

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