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8/29/2023 11:50 AM MILTON

ELITE 2000 ALUMINUM STOREFRONT GLAZING SYSTEM

LARGE/SMALL MISSILE IMPACT RESISTANCE (LEVEL "D" IMPACT RESISTANCE)
VALID FOR USE INSIDE AND OUTSIDE THE HVHZ (SEE LIMITATIONS HEREIN)
NON-SITE-SPECIFIC STRUCTURAL PERFORMANCE EVALUATION. A DESIGN PROFESSIONAL SHALL BE RESPONSIBLE FOR CERTIFYING THE APPLICATION OF THIS INFORMATION TO ANY SITE-SPECIFIC LOCATION.

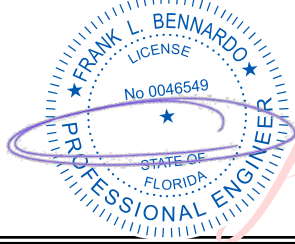
GENERAL NOTES

- THE SYSTEM DESCRIBED HEREIN HAS BEEN DESIGNED AND TESTED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE EIGHTH EDITION (2023), FOR USE WITHIN AND OUTSIDE THE HIGH VELOCITY HURRICANE ZONE (HVHZ),SYSTEM TESTED PER:
- TAS 201-94
- TAS 202-94
- TAS 203-94
- AAMA 501-05
- WIND LOAD DURATION FACTOR Cd=1.6 HAS BEEN USED FOR WOOD ANCHOR DESIGN.
- DESIGN PRESSURES NOTED HEREIN ARE BASED ON MAXIMUM TESTED PRESSURES DIVIDED BY 1.5 SAFETY FACTOR.
- POSITIVE AND 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. SITE SPECIFIC LOAD WIND LOAD REQUIREMENTS SHALL BE DETERMINED IN ACCORDANCE WITH ASCE 7 AND THE FLORIDA BUILDING CODE EIGHTH EDITION (2023) BY SEPARATE ENGINEERING CERTIFICATION AND SHALL BE LESS THAN OR EQUAL TO THE POSITIVE OR NEGATIVE DESIGN PRESSURE CAPACITY VALUE LISTED HEREIN FOR ANY ASSEMBLY WITHIN THE LIMITATIONS STATED HEREIN.
- THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. FOR SITE CONDITIONS DIFFERENT FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS DOCUMENT.
- THE ARCHITECT/ENGINEER OF RECORD FOR THE PROJECT SUPERSTRUCTURE WITH WHICH THIS DESIGN IS USED SHALL BE RESPONSIBLE FOR THE INTEGRITY OF ALL SUPPORTING SURFACES TO THIS DESIGN WHICH SHALL BE COORDINATED BY THE PERMITTING CONTRACTOR. WOOD BUCKS (BY OTHERS) SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO EXISTING STRUCTURE
- ANCHOR EMBEDMENT SPECIFIED IS INTO HOST STRUCTURE MINIMUM.
- ALL EXTRUSIONS SHALL BE 6063-T5 ALUMINUM ALLOY, UNLESS NOTED OTHERWISE.
- EXTERIOR SEAM OF FRAME CORNERS, INSTALLATION SCREWS, AND GLAZING BEAD ENDS SHALL BE SEALED WITH SILICONE.
- FASTENERS SHALL BE CADMIUM-PLATED OR OTHERWISE CORROSION-RESISTANT MATERIAL AND SHALL COMPLY WITH "SPECIFICATIONS FOR ALUMINUM STRUCTURES" SECTION J.3.7.2 BY THE ALUMINUM ASSOCIATION IN.C, AND ANY APPLICABLE FEDERAL, STATE AND OR LOCAL CODES.
- REFER TO FASTENER MANUFACTURER'S PUBLISHED DATA SHEETS AND RECOMMENDATIONS FOR FASTENER INSTALLATION INSTRUCTIONS.
- ALL BOLTS & WASHERS SHALL BE ZINC COATED STEEL, GALVANIZED STEEL, OR STAINLESS STEEL WITH A MINIMUM TENSILE YIELD STRENGTH OF 60 KSI.

- THE CONTRACTOR IS RESPONSIBLE TO INSULATE ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.
- SAF GLASS ,LLC. - N.O.A # 13.1105.10 - 0.100" THK.
KURARAY AMERICA INC. - SENTRYGLAS INTERLAYER N.O.A.# 14-0916.11 - 0.090 THK
NOTE: IF THIS N.O.A.# HAS BEEN SUPERSEDED, USE MOST RECENT N.O.A.# VERSION
- APPROVED FOR LARGE AND SMALL MISSILE IMPACT APPLICATIONS. SEE GLASS TYPES FOR ANY RESTRICTIONS
- TEST REPORTS: HURRICANE ENGINEERING AND TESTING REPORT # HETI-08-2164B, HETI-08-2164A, HETI-09-2509B AND HETI-09-2509-A. CONSTRUCTION TESTING CORP. REPORT # 00-030
- THIS SYSTEM MAY BE USED IN CONJUNCTION WITH ELITE DOOR SERIES 3000 OUT SWING ENTRY DOOR
- CODE REQUIREMENTS FOR SAFEGUARDS MUST BE OBSERVED AND ARE NOT IN THIS CERTIFICATION.
- WINDOW TO SUBSTRATE WATER PROOFING IS NOT INCLUDED IN THIS DOCUMENT AND MUST BE ADDRESSED ON A SITE SPECIFIC BASIS. NOT BY ELITE ALUMINUM CORP.
- ENGINEER SEAL AFFIXED HERETO VALIDATE STRUCTURAL DESIGN AS SHOWN ONLY. USE OF THIS SPECIFICATION BY CONTRACTOR, et. al. INDEMNIFIES & SAVES HARMLESS THIS ENGINEER FOR ALL COST & DAMAGES INCLUDING LEGAL FEES & APPELLATE FEES RESULTING FROM MATERIAL FABRICATION, SYSTEM ERECTION, & CONSTRUCTION PRACTICES BEYOND THAT WHICH IS CALLED FOR BY LOCAL, STATE & FEDERAL CODES & FROM DEVIATIONS OF THIS PLAN.
- EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.
- PRESSURE VALUES ON THIS APPROVAL ARE (ASD) ALLOWABLE DESIGN PRESSURES.
- ALTERATIONS ADDITIONS OR OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE THIS CERTIFICATION.
- PRODUCT SHALL BE PERMANENTLY LABELED WITH A MINIMUM OF ONE LABEL PER SYSTEM CONTAINING THE FOLLOWING:
ELITE ALUMINUM CORPORATION
4650 LYONS TECHNOLOGY PARKWAY
COCONUT CREEK, FLORIDA 33073
TAS 201/202/203
APPROVED BY FLORIDA BUILDING COMMISSION
FLORIDA PRODUCT APPROVAL NUMBER:
FL#5499.1

FRANK BENNARDO, P.E.
PE# 0046549 CA# 9885

AUGUST 29, 2023



Digitally signed by
Frank Bennardo
Date: 2023.08.29
15:14:12 -04'00'

NOTE REGARDING USE OF THIS DOCUMENT & USE OUTSIDE FLORIDA:

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.

SHEET INDEX

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8-10	MULLION LOADING CHARTS
11	ANCHORING SCHEDULE
12	PARTS & PARTS LIST
13	FRAME ASSEMBLY

TERMINOLOGY:

THE FOLLOWING ABBREVIATIONS APPEAR IN THIS APPROVAL: "U.N.O." FOR "UNLESS NOTED OTHERWISE", "FBC" FOR "FLORIDA BUILDING CODE", "CORP." FOR "CORPORATION", "ALUM" FOR "ALUMINUM", "ASD" FOR "ALLOWABLE STRESS DESIGN", "ASTM" FOR "AMERICAN SOCIETY FOR TESTING AND MATERIALS", "CS" FOR "CARBON STEEL", "CONN" FOR "CONNECTION", "EMBED" FOR "EMBEDMENT", "DIST." FOR "DISTANCE", "GA" FOR "GAUGE", "HVHZ" FOR "HIGH-VELOCITY HURRICANE ZONE", "LB" FOR "POUND", "MAX" FOR "MAXIMUM", "N.T.S." FOR "NOT TO SCALE", "PSF" FOR "POUNDS PER SQUARE FOOT (lb/ft²)", "KSI" FOR "KILOPOUNDS PER SQUARE INCH (klb/in²)", "SPECS" FOR "SPECIFICATIONS", "&" FOR "AND", "MAX" FOR "MAXIMUM", "W/" FOR "WITH", "EXIST." FOR "EXISTING", "STRUCT." FOR "STRUCTURE", "SHT" FOR "SHEET", "REF" FOR "REFERENCE", "D.L.O." FOR "DAYLIGHT OPENING". CONTACT ENGINEERING EXPRESS FOR ADDITIONAL ABBREVIATION/TERMINOLOGY CLARIFICATIONS.

VISIT [ECALC.IO/59952](https://ecalculator.com/59952)

FOR SITE-SPECIFIC DEVIATIONS
& MORE INFORMATION ABOUT THIS DOCUMENT
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FOR ADDITIONAL PLANS, REPORTS & RESOURCES



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Elite Aluminum Corporation

4650 Lyons Technology Parkway
Coconut Creek, FL 33073

Elite 2000 Storefront Glazing System
Large/Small Missile Impact Resistance
FBC 8TH ED. (2023) | FLORIDA STATEWIDE APPROVAL

REMARKS	DATE	DRWN	CHKD
PREV. SUBMITTAL (20-28074) JEM	01/18/21	AJP	
2023 FBC UPDATE	08/15/23	MRT	
		RWN	

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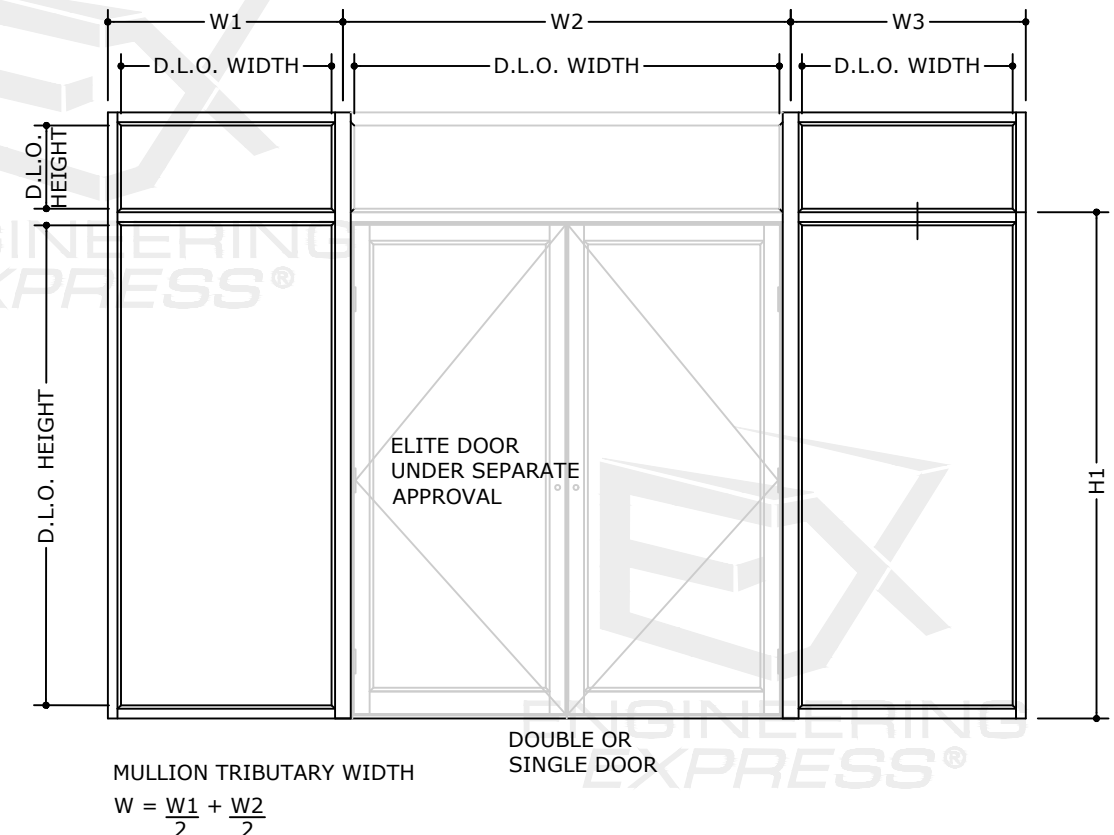
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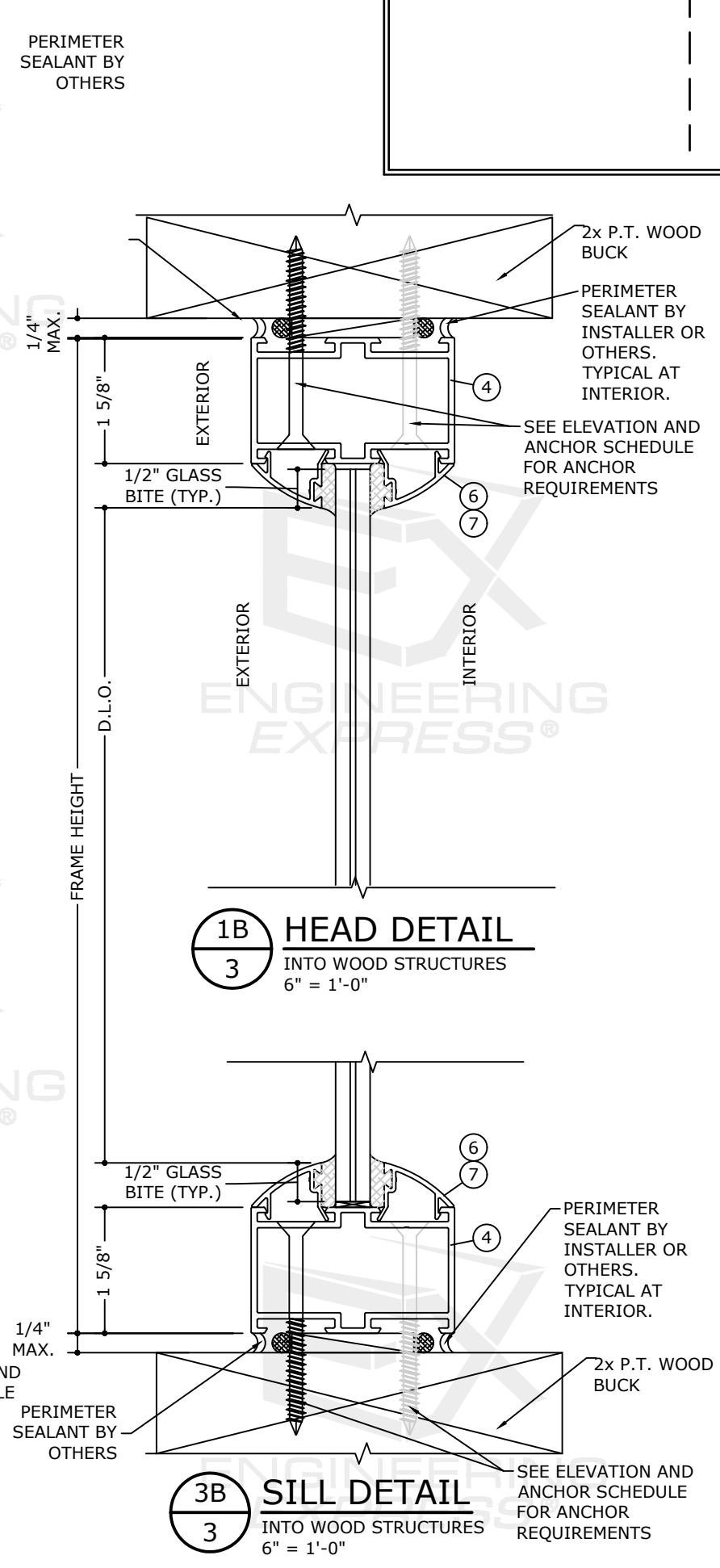
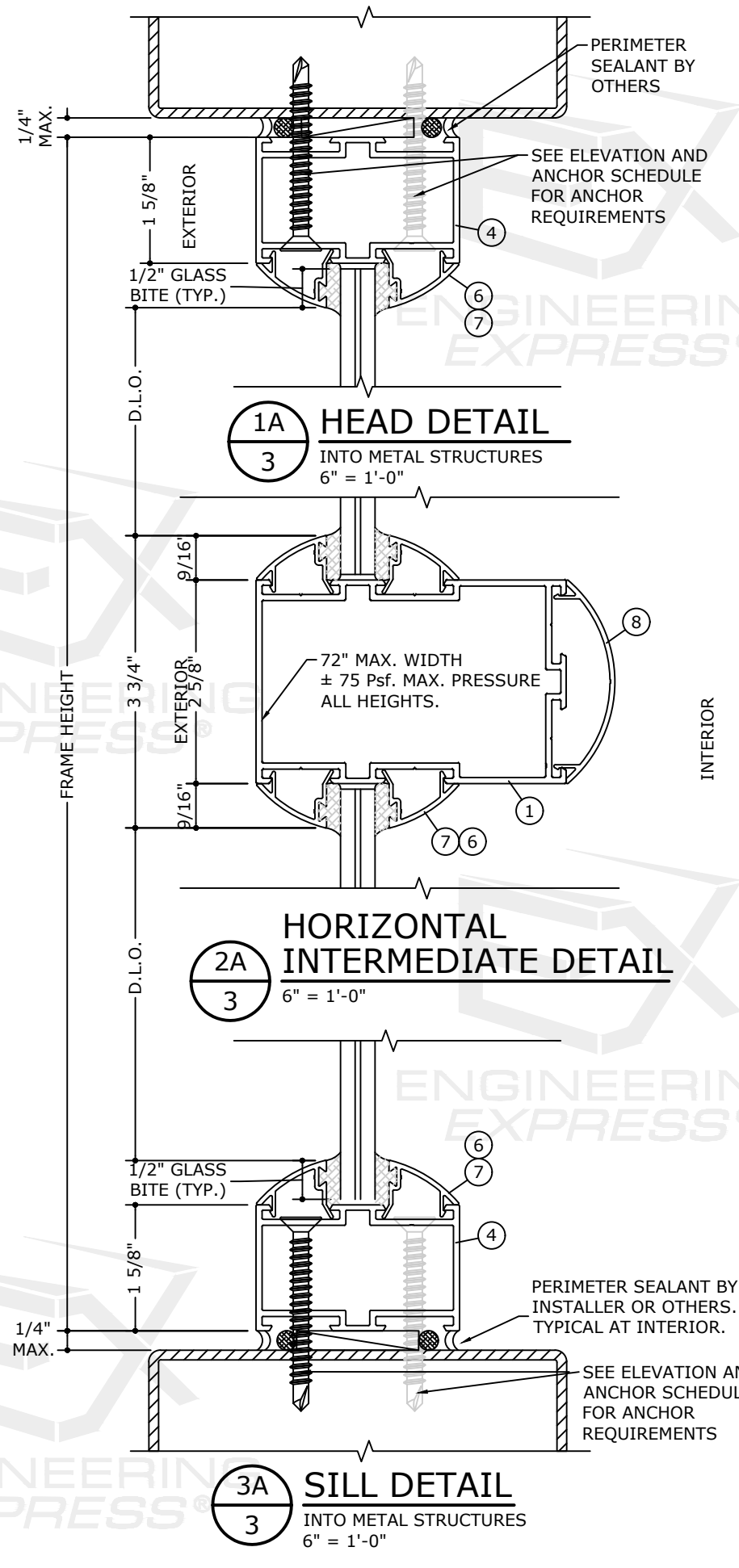
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4650 Lyons Technology Parkway
Coconut Creek, FL 33073

Elite 2000 Storefront Glazing System
Large/Small Missile Impact Resistance
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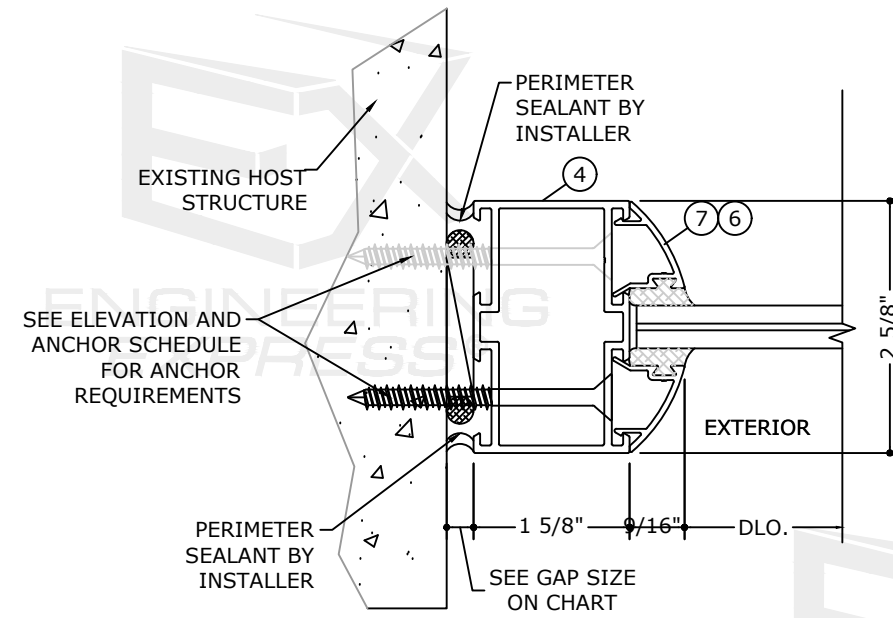
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PREV. SUBMITTAL (20-28074)	JEM	AJP		01/18/21
2023 FBC UPDATE	MRT	RWN		08/15/23
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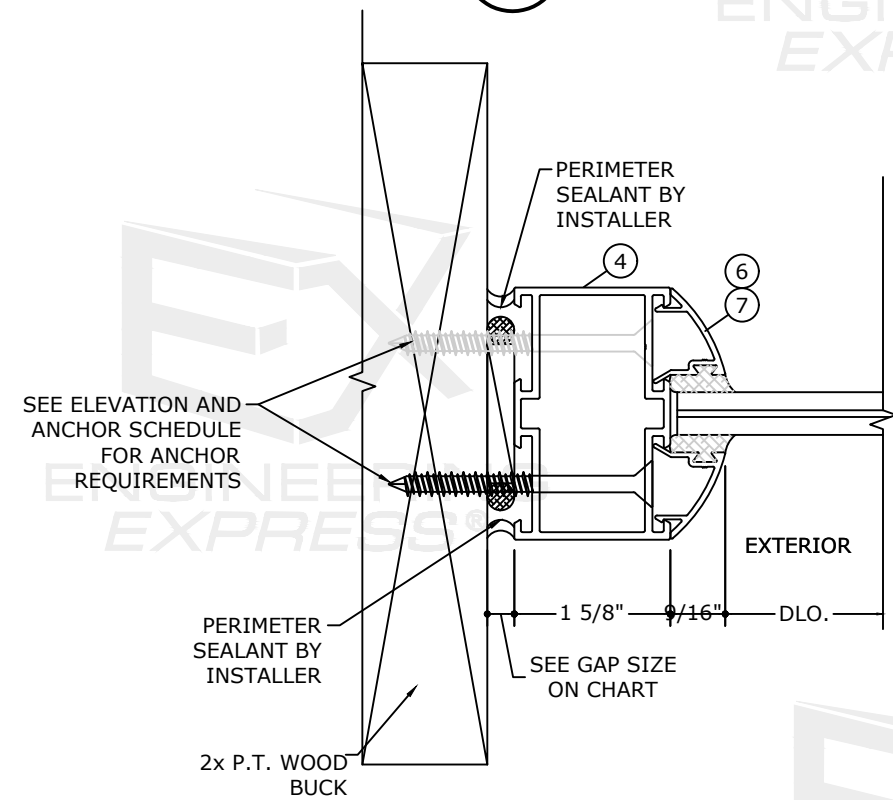
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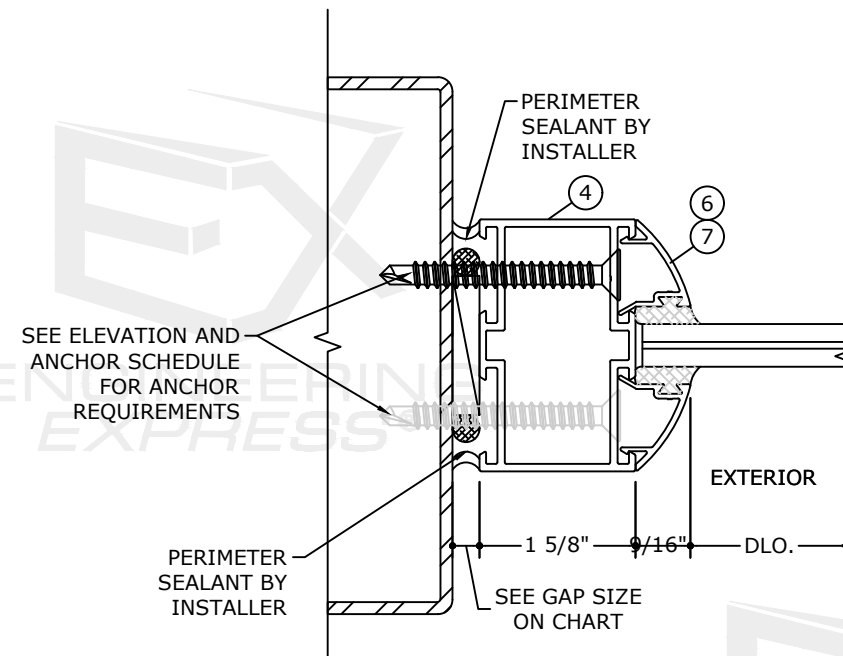
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JAMB DETAIL

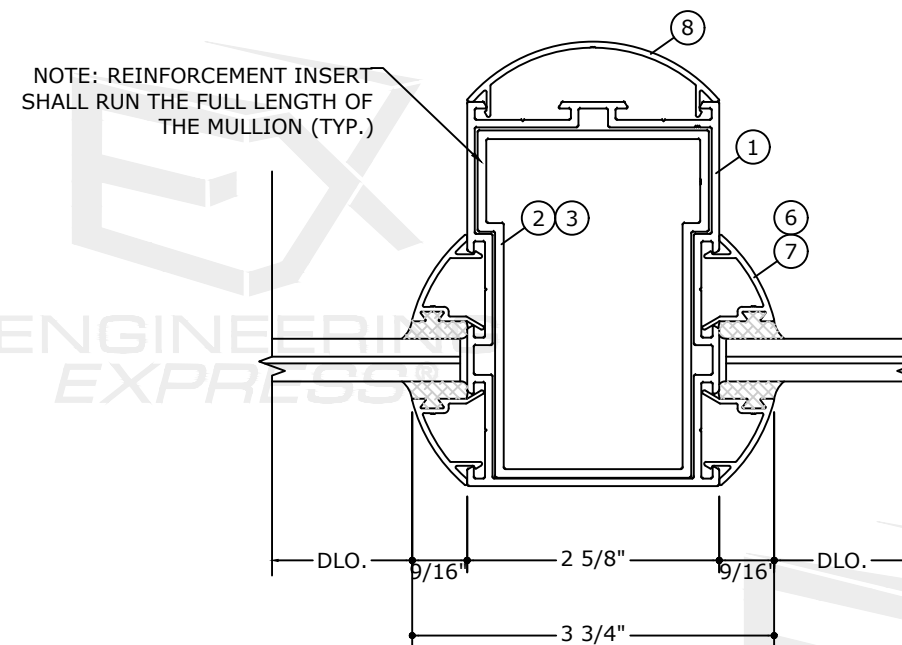
6" = 1'-0"




JAMB DETAIL
 6" = 1'-0"




JAMB DETAIL
 6" = 1'-0"



VERTICAL INTERMEDIATE DETAIL
6" = 1'-0"

DESIGN PRESSURE CHART (ASD)

GLASS TYPE "A"			
D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	NEGATIVE (Psf)	POSITIVE (Psf)
24	24	61.9	61.9
30		61.9	61.9
36		61.9	61.9
42		61.9	61.9
48		61.9	61.9
52 ¾		61.9	61.9
60		61.9	61.9
66		61.9	61.9
72		61.9	61.9
78		61.9	61.9
84		61.9	61.9
90		61.9	61.9
96		61.9	61.9
102		61.9	61.9
105 ⅝		61.9	61.9
114		61.9	61.9
120		61.9	61.9
126		61.9	61.9
132		61.9	61.9
138		61.9	61.9
144		61.9	61.9
150		61.9	61.9
156		61.9	61.9
162		61.9	61.9

D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	NEGATIVE (Psf)	POSITIVE (Psf)
24	30	61.9	61.9
30		61.9	61.9
36		61.9	61.9
42		61.9	61.9
48		61.9	61.9
52 ¾		61.9	61.9
60		61.9	61.9
66		61.9	61.9
72		61.9	61.9
78		61.9	61.9
84		61.9	61.9
90		61.9	61.9
96		61.9	61.9
102		61.9	61.9
105 ⅝		61.9	61.9
114		61.9	61.9
120		61.9	61.9
126		61.9	61.9
132		61.9	61.9
138		61.9	61.9
144		61.9	61.9
150		61.9	61.9

GLASS TYPE "A"			
D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	NEGATIVE (Psf)	POSITIVE (Psf)
24	36	61.9	61.9
30		61.9	61.9
36		61.9	61.9
42		61.9	61.9
48		61.9	61.9
52 ¾		61.9	61.9
60		61.9	61.9
66		61.9	61.9
72		61.9	61.9
78		61.9	61.9
84		61.9	61.9
90		61.9	61.9
96		61.9	61.9
102		61.9	61.9
105 ⅝		61.9	61.9
114		61.9	61.9
120		61.9	61.9
126		61.9	61.9

D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	NEGATIVE (Psf)	POSITIVE (Psf)
24	42	61.9	61.9
30		61.9	61.9
36		61.9	61.9
42		61.9	61.9
48		61.9	61.9
52 ¾		61.9	61.9
60		61.9	61.9
66		61.9	61.9
72		61.9	61.9
78		61.9	61.9
84		61.9	61.9
90		61.9	61.9
96		61.9	61.9
102		61.9	61.9
105 ⅝		61.9	61.9
114		61.9	61.9
120		61.9	61.9

D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	NEGATIVE (Psf)	POSITIVE (Psf)
24	48	61.9	61.9
30		61.9	61.9
36		61.9	61.9
42		61.9	61.9
48		61.9	61.9
52 ¾		61.9	61.9
60		61.9	61.9
66		61.9	61.9
72		61.9	61.9
78		61.9	61.9
84		61.9	61.9
90		61.9	61.9
96		61.9	61.9
102		61.9	61.9
105 ⅝		61.9	61.9
114		61.9	61.9
120		61.9	61.9

GLASS TYPE "A"			
D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	NEGATIVE (Psf)	POSITIVE (Psf)
24	52 ¾	61.9	61.9
30		61.9	61.9
36		61.9	61.9
42		61.9	61.9
48		61.9	61.9
52 ¾		56	56
60		56	56
66		56	56
72		56	56
78		56	56
84		56	56

D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	NEGATIVE (Psf)	POSITIVE (Psf)
24	60	61.9	61.9
30		61.9	61.9
36		61.9	61.9
42		61.9	61.9
48		61.9	61.9
52 ¾		56	56
60		49	49
66		49	49
72		49	49

D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	NEGATIVE (Psf)	POSITIVE (Psf)
24	66	61.9	61.9
30		61.9	61.9
36		61.9	61.9
42		61.9	61.9
48		61.9	61.9
52 ¾		56	56
60		49	49
66		45	45

D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	NEGATIVE (Psf)	POSITIVE (Psf)
24	72	61.9	61.9
30		61.9	61.9
36		61.9	61.9
42		61.9	61.9
48		61.9	61.9
52 ¾		56	56
60		49	49

D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	NEGATIVE (Psf)	POSITIVE (Psf)
24	78	61.9	61.9
30		61.9	61.9
36		61.9	61.9
42		61.9	61.9
48		61.9	61.9
52 ¾		56	56

GLASS TYPE "A"			
D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	NEGATIVE (Psf)	POSITIVE (Psf)
24	84	61.9	61.9
30		61.9	61.9
36		61.9	61.9
42		61.9	61.9
48		61.9	61.9
52 ¾		56	56

D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	NEGATIVE (Psf)	POSITIVE (Psf)
24	90	61.9	61.9
30		61.9	61.9
36		61.9	61.9
42		61.9	61.9
48		61.9	61.9

D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	NEGATIVE (Psf)	POSITIVE (Psf)
24	96	61.9	61.9
30		61.9	61.9
36		61.9	61.9
42		61.9	61.9
48		61.9	61.9

D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	NEGATIVE (Psf)	POSITIVE (Psf)
24	102	61.9	61.9
30		61.9	61.9
36		61.9	61.9
42		60	60

D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	NEGATIVE (Psf)	POSITIVE (Psf)
24	105 ⅝	61.9	61.9
30		61.9	61.9
36		61.9	61.9
42		56	56

D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	NEGATIVE (Psf)	POSITIVE (Psf)
24	114	61.9	61.9
30		61.9	61.9
36		55	55

D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	NEGATIVE (Psf)	POSITIVE (Psf)
24	120	61.9	61.9
30		59	59
36		49	49

D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	NEGATIVE (Psf)	POSITIVE (Psf)
24	126	61.9	61.9
30		53	53
36		45	45

GLASS TYPE "A"			
D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	NEGATIVE (Psf)	POSITIVE (Psf)
24	132	60	60
30		48	48

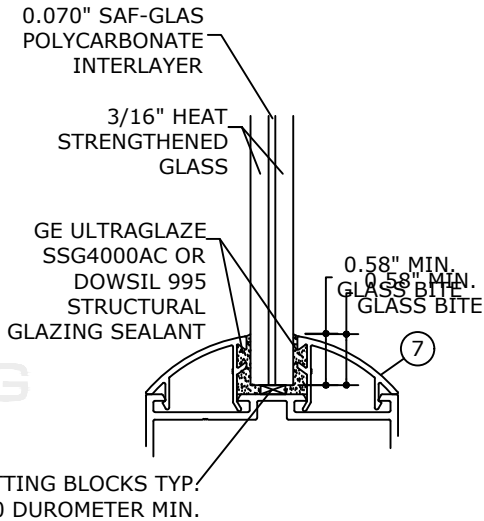
D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	NEGATIVE (Psf)	POSITIVE (Psf)
24	138	55	55
30		44	44

D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	NEGATIVE (Psf)	POSITIVE (Psf)
24	144	50	50
30		40	40

D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	NEGATIVE (Psf)	POSITIVE (Psf)
24	150	46	46
30		37	37

D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	NEGATIVE (Psf)	POSITIVE (Psf)
24	150	43	43

D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	NEGATIVE (Psf)	POSITIVE (Psf)
24	162	40	40



GLASS TYPE **A**
GLAZING DETAIL
N.T.S. VERT SECT

NOTE:
GLASS CAPACITY ON THIS SHEET IS BASED
ON ASTM E1300-09 (3 SEC GUST)

FRANK BENNARDO, P.E.
PE# 0046549 CA# 9885

AUGUST 29, 2023

FL

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Elite Aluminum Corporation

4650 Lyons Technology Parkway
Coconut Creek, FL 33073

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Large/Small Missile Impact Resistance
FBC 8TH ED. (2023) | FLORIDA STATEWIDE APPROVAL

REMARKS	DRWN	CHKD	DATE
PREV. SUBMITTAL (20-28074)	JEM	AJP	01/18/21
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DESIGN PRESSURE CHART (ASD)

GLASS TYPE "B"			
D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	NEGATIVE (Psf)	POSITIVE (Psf)
24	24	55.3	55.3
30		55.3	55.3
36		55.3	55.3
42		55.3	55.3
48		55.3	55.3
52 ¾		55.3	55.3
60		55.3	55.3
66		55.3	55.3
72		55.3	55.3
78		55.3	55.3
84		55.3	55.3
90		55.3	55.3
96		55.3	55.3
102		55.3	55.3
105 ⅙		55.3	55.3
114		55.3	55.3
120		55.3	55.3
126		55.3	55.3
132		55.3	55.3
138		55.3	55.3
144		55.3	55.3
150		55.3	55.3
156		55.3	55.3
162		55.3	55.3

D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	NEGATIVE (Psf)	POSITIVE (Psf)
24	30	55.3	55.3
30		55.3	55.3
36		55.3	55.3
42		55.3	55.3
48		55.3	55.3
52 ¾		55.3	55.3
60		55.3	55.3
66		55.3	55.3
72		55.3	55.3
78		55.3	55.3
84		55.3	55.3
90		55.3	55.3
96		55.3	55.3
102		55.3	55.3
105 ⅙		55.3	55.3
114		55.3	55.3
120		55.3	55.3
126		55.3	55.3
132		55.3	55.3
138		55.3	55.3
144		55.3	55.3
150		55.3	55.3
156		55.3	55.3
162		55.3	55.3

GLASS TYPE "B"			
D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	NEGATIVE (Psf)	POSITIVE (Psf)
24	36	55.3	55.3
30		55.3	55.3
36		55.3	55.3
42		55.3	55.3
48		55.3	55.3
52 ¾		55.3	55.3
60		55.3	55.3
66		55.3	55.3
72		55.3	55.3
78		55.3	55.3
84		55.3	55.3
90		55.3	55.3
96		55.3	55.3
102		55.3	55.3
105 ⅙		55.3	55.3
114		55.3	55.3
120		55.3	55.3
126		55.3	55.3

D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	NEGATIVE (Psf)	POSITIVE (Psf)
24	42	55.3	55.3
30		55.3	55.3
36		55.3	55.3
42		55.3	55.3
48		55.3	55.3
52 ¾		55.3	55.3
60		55.3	55.3
66		55.3	55.3
72		55.3	55.3
78		55.3	55.3
84		55.3	55.3
90		55.3	55.3
96		55.3	55.3
102		55.3	55.3
105 ⅙		55.3	55.3
114		55.3	55.3
120		55.3	55.3
126		55.3	55.3

D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	NEGATIVE (Psf)	POSITIVE (Psf)
24	48	55.3	55.3
30		55.3	55.3
36		55.3	55.3
42		55.3	55.3
48		55.3	55.3
52 ¾		55.3	55.3
60		55.3	55.3
66		55.3	55.3
72		55.3	55.3
78		55.3	55.3
84		55.3	55.3
90		55.3	55.3
96		55.3	55.3
102		55.3	55.3
105 ⅙		55.3	55.3
114		55.3	55.3
120		55.3	55.3
126		55.3	55.3

GLASS TYPE "B"			
D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	NEGATIVE (Psf)	POSITIVE (Psf)
24	52 ¾	55.3	55.3
30		55.3	55.3
36		55.3	55.3
42		55.3	55.3
48		55.3	55.3
52 ¾		50	50
60		50	50
66		50	50
72		50	50
78		50	50
84		50	50
90		50	50
96		50	50
102		50	50
105 ⅙		50	50
114		50	50
120		50	50
126		50	50

D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	NEGATIVE (Psf)	POSITIVE (Psf)
24	60	55.3	55.3
30		55.3	55.3
36		55.3	55.3
42		55.3	55.3
48		55.3	55.3
52 ¾		50	50
60		44	44
66		44	44
72		44	44
78		44	44
84		44	44
90		44	44
96		44	44
102		44	44
105 ⅙		44	44
114		44	44
120		44	44
126		44	44

D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	NEGATIVE (Psf)	POSITIVE (Psf)
24	66	55.3	55.3
30		55.3	55.3
36		55.3	55.3
42		55.3	55.3
48		55.3	55.3
52 ¾		50	50
60		44	44
66		40	40
72		40	40
78		40	40
84		40	40
90		40	40
96		40	40
102		40	40
105 ⅙		40	40
114		40	40
120		40	40
126		40	40

D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	NEGATIVE (Psf)	POSITIVE (Psf)
24	72	55.3	55.3
30		55.3	55.3
36		55.3	55.3
42		55.3	55.3
48		55.3	55.3
52 ¾		50	50
60		44	44
66		40	40
72		40	40
78		40	40
84		40	40
90		40	40
96		40	40
102		40	40
105 ⅙		40	40
114		40	40
120		40	40
126		40	40

D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	NEGATIVE (Psf)	POSITIVE (Psf)
24	78	55.3	55.3
30		55.3	55.3
36		55.3	55.3
42		55.3	55.3
48		55.3	55.3
52 ¾		50	50
60		44	44
66		40	40
72		40	40
78		40	40
84		40	40
90		40	40
96		40	40
102		40	40
105 ⅙		40	40
114		40	40
120		40	40
126		40	40

GLASS TYPE "B"			
D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	NEGATIVE (Psf)	POSITIVE (Psf)
24	84	55.3	55.3
30		55.3	55.3
36		55.3	55.3
42		55.3	55.3
48		55.3	55.3
52 ¾		50	50
60		50	50
66		50	50
72		50	50
78		50	50
84		50	50
90		50	50
96		50	50
102		50	50
105 ⅙		50	50
114		50	50
120		50	50
126		50	50

D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	NEGATIVE (Psf)	POSITIVE (Psf)
24	90	55.3	55.3
30		55.3	55.3
36		55.3	55.3
42		55.3	55.3
48		55.3	55.3
52 ¾		50	50
60		50	50
66		50	50
72		50	50
78		50	50
84		50	50
90		50	50
96		50	50
102		50	50
105 ⅙		50	50
114		50	50
120		50	50
126		50	50

D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	NEGATIVE (Psf)	POSITIVE (Psf)
24	96	55.3	55.3
30		55.3	55.3
36		55.3	55.3
42		55.3	55.3
48		55.3	55.3
52 ¾		50	50
60		44	44
66		44	44
72		44	44
78		44	44
84		44	44
90		44	44
96		44	44
102		44	44
105 ⅙		44	44
114		44	44
120		44	44
126		44	44

D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	NEGATIVE (Psf)	POSITIVE (Psf)
24	102	55.3	55.3
30		55.3	55.3
36		55.3	55.3
42		55.3	55.3
48		55.3	55.3
52 ¾		50	50
60		44	44
66		40	40
72		40	40
78		40	40
84		40	40
90		40	40
96		40	40
102		40	40
105 ⅙		40	40
114		40	40
120		40	40
126		40	40

D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	NEGATIVE (Psf)	POSITIVE (Psf)
24	105 ⅙	55.3	55.3
30		55.3	55.3
36		55.3	55.3
42		55.3	55.3
48		55.3	55.3
52 ¾		50	50
60		44	44
66		40	40
72		40	40
78		40	40
84		40	40
90		40	40
96		40	40
102		40	40
105 ⅙		40	40
114		40	40
120		40	40
126		40	40

D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	NEGATIVE (Psf)	POSITIVE (Psf)
24	114	55.3	55.3
30		55.3	55.3
36		49	49

FL

D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	NEGATIVE (Psf)	POSITIVE (Psf)
24	132	85	75
30		85	75
36		74	65
42		64	56

D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	NEGATIVE (Psf)	POSITIVE (Psf)
24	90	85	75
30		85	75
36		85	75
42		85	75
48		85	75
52 ¾		85	75
60		74	65

D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	NEGATIVE (Psf)	POSITIVE (Psf)
24	162	72	64
30		58	51



NOTE:
GLASS CAPACITY ON THIS SHEET IS BASED
ON ASTM E1300-09 (3 SEC GUST)

NOTE:
AN ALUMINUM SKIN PLYWOOD PANEL CONSISTING OF 3/4" PLYWOOD
AND 0.032" THICK 3105H154 ALUMINUM ON INTERIOR AND EXTERIOR
IN LIEU OF GLASS 13 SQ. FT. MAX AREA.

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Elite Aluminum Corporation

4650 Lyons Technology Parkway
Coconut Creek, FL 33073

Elite 2000 Storefront Glazing System
Large/Small Missile Impact Resistance

FBC 8TH ED. (2023) | FLORIDA STATEWIDE APPROVAL

REMARKS	DRWN	CHKD	DATE
PREV. SUBMITTAL (20-28074)	JEM	AJP	01/19/21
2023 FBC UPDATE	MRT	RWN	08/15/23
-	-	-	-
-	-	-	-
-	-	-	-

23-59952

SCALE: NTS UNLESS NOTED

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0 Lyons Technology Parkway
Coconut Creek, FL 33073

Elite 2000 Storefront Glazing System Large/Small Missile Impact Resistance

Large/Small Missile Impact Resistance
FBC 8TH ED. (2023) | FLORIDA STATEWIDE APPROVAL

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8

OF
1

21013 VERTICAL MULLION
WITH REINFORCEMENT
TYPE 1

NOMINAL DIMS		PRESSURES	
WIDTH (in.)	HEIGHT (in.)	NEGATIVE (Psf)	POSITIVE (Psf)
24	78	61.9	61.9
30		61.9	61.9
36		61.9	61.9
42		61.9	61.9
48		61.9	61.9
51		61.9	61.9
54		61.9	61.9
58 $\frac{5}{8}$		61.9	61.9

72" MAX. WIDTH
± 75 Psf MAX. PRESSURE
ALL HEIGHTS.

21013 HORIZONTAL MULLION

55" MAX. WIDTH
± 56 Psf MAX. PRESSURE
ALL HEIGHTS.

21013 HORIZONTAL MULLION



FL 5499.1

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Elite Aluminum Corporation

4650 Lyons Technology Parkway
Coconut Creek, FL 33073

Elite 2000 Storefront Glazing System
Large/Small Missile Impact Resistance

FBC 8TH ED. (2023) | FLORIDA STATEWIDE APPROVAL

REMARKS	DRWN	CHKD	DATE
PREV. SUBMITTAL (20-28074)	JEM	AJP	01/18/21
2023 FBC UPDATE	MRT	RWN	08/15/23
-	-	-	-
-	-	-	-
-	-	-	-

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23-59952

SCALE: NTS UNLESS NOTED

9 OF 13

WITH AND WITHOUT HORIZONTALS

MULLION W/ REINFORCEMENT TYPE 2			
NOMINAL DIMS		PRESSURES	
WIDTH (in.)	HEIGHT (in.)	NEGATIVE (Psf)	POSITIVE (Psf)
24	24	85	75
30		85	75
36		85	75
42		85	75
48		85	75
51		85	75
54		85	75
58 ⅝		85	75
66		85	75
72		85	75
78		85	75
84		85	75
90		85	75
96		85	75
99		85	75
102		85	75
108		85	75
109 ⅝		85	75
132		85	75
138		85	75
144	85	75	
150	85	75	
156	85	75	
162	85	75	

NOMINAL DIMS		PRESSURES	
WIDTH (in.)	HEIGHT (in.)	NEGATIVE (Psf)	POSITIVE (Psf)
24	30	85	75
30		85	75
36		85	75
42		85	75
48		85	75
51		85	75
54		85	75
58 ⅜		85	75
66		85	75
72		85	75
78		85	75
84		85	75
90		85	75
96		85	75
99		85	75
102		85	75
108		85	75
109 ⅝		85	75
132		85	75
138		85	75
144	85	75	
150	85	75	
156	85	75	
162	85	75	

MULLION W/ REINFORCEMENT TYPE 2			
NOMINAL DIMS		PRESSURES	
WIDTH (in.)	HEIGHT (in.)	NEGATIVE (Psf)	POSITIVE (Psf)
24	36	85	75
30		85	75
36		85	75
42		85	75
48		85	75
51		85	75
54		85	75
58 ⅜		85	75
66		85	75
72		85	75
78		85	75
84		85	75
90		85	75
96		85	75
99		85	75
102		85	75
108		85	75
109 ⅜		85	75
132		85	75
138		85	75
144	85	75	
150	85	75	
156	85	75	
162	85	75	

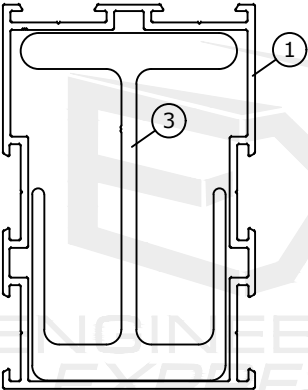
NOMINAL DIMS		PRESSURES	
WIDTH (in.)	HEIGHT (in.)	NEGATIVE (Psf)	POSITIVE (Psf)
24	42	85	75
30		85	75
36		85	75
42		85	75
48		85	75
51		85	75
54		85	75
58 ⅞		85	75
66		85	75
72		85	75
78		85	75
84		85	75
90		85	75
96		85	75
99		85	75
102		85	75
108		85	75
109 ⅞		85	75
132		85	75
138		85	75
144	85	75	
150	85	75	

MULLION W/ REINFORCEMENT TYPE 2			
NOMINAL DIMS		PRESSURES	
WIDTH (in.)	HEIGHT (in.)	NEGATIVE (Psf)	POSITIVE (Psf)
24	48	85	75
30		85	75
36		85	75
42		85	75
48		85	75
51		85	75
54		85	75
58 5/8		85	75
66		85	75
72		85	75
78		85	75
84		85	75
90		85	75
96		85	75
99		85	75
102		85	75
108		85	75
109 5/8	85	75	
132		85	75

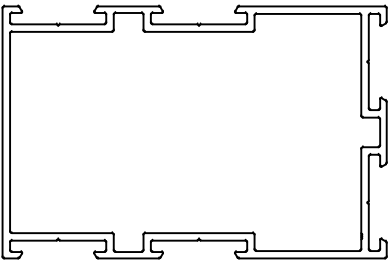
NOMINAL DIMS		PRESSURES	
WIDTH (in.)	HEIGHT (in.)	NEGATIVE (Psf)	POSITIVE (Psf)
24	51	85	75
30		85	75
36		85	75
42		85	75
48		85	75
51		85	75
54		85	75
58 5⁄8		85	75
66		85	75
72		85	75
78		85	75
84		85	75
90		85	75
96		85	75
99		85	75
102		85	75
108	85	75	
109 5⁄8	85	75	

MULLION W/ REINFORCEMENT TYPE 2			
NOMINAL DIMS		PRESSURES	
WIDTH (in.)	HEIGHT (in.)	NEGATIVE (Psf)	POSITIVE (Psf)
24	54	85	75
30		85	75
36		85	75
42		85	75
48		85	75
51		85	75
54		85	75
58 5⁄8		85	75
66		85	75
72		85	75
78		85	75
84		85	75
90		85	75
96		85	75
99		85	75
102		85	75
108		85	75
109 5⁄8	85	75	

NOMINAL DIMS		PRESSURES	
WIDTH (in.)	HEIGHT (in.)	NEGATIVE (Psf)	POSITIVE (Psf)
24	58 5⁄8	85	75
30		85	75
36		85	75
42		85	75
48		85	75
51		85	75
54		85	75
58 5⁄8		85	75
66		85	75
72		85	75
78		85	75
84		85	75
90		85	75
96		85	75
99		85	75
102	85	75	
108	85	75	
109 5⁄8	85	75	

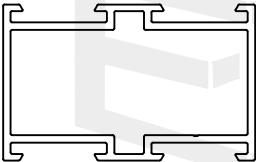


21013 VERTICAL MULLION
WITH REINFORCEMENT
TYPE 2



72" MAX. WIDTH
± 75 Psf MAX. PRESSURE
ALL HEIGHTS.

21013 HORIZONTAL MULLION



55" MAX. WIDTH
± 56 Psf MAX. PRESSURE
ALL HEIGHTS.

21013 HORIZONTAL MULLION

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WITH AND WITHOUT HORIZONTALS

MULLION W/ REINFORCEMENT TYPE 2			
NOMINAL DIMS		PRESSURES	
WIDTH (in.)	HEIGHT (in.)	NEGATIVE (Psf)	POSITIVE (Psf)
24	66	85	75
30		85	75
36		85	75
42		85	75
48		85	75
51		85	75
54		85	75
58 5/8		85	75
66		85	75
72		85	75
78		85	75
84		85	75
90		85	75
96		85	75
99		85	75

NOMINAL DIMS			
NOMINAL DIMS		PRESSURES	
WIDTH (in.)	HEIGHT (in.)	NEGATIVE (Psf)	POSITIVE (Psf)
24	72	85	75
30		85	75
36		85	75
42		85	75
48		85	75
51		85	75
54		85	75
58 5/8		85	75
66		85	75
72		85	75
78		85	75
84		85	75

NOMINAL DIMS			
NOMINAL DIMS		PRESSURES	
WIDTH (in.)	HEIGHT (in.)	NEGATIVE (Psf)	POSITIVE (Psf)
24	78	85	75
30		85	75
36		85	75
42		85	75
48		85	75
51		85	75
54		85	75
58 5/8		85	75
66		85	75
72		85	75
78		85	75

MULLION W/ REINFORCEMENT TYPE 2			
NOMINAL DIMS		PRESSURES	
WIDTH (in.)	HEIGHT (in.)	NEGATIVE (Psf)	POSITIVE (Psf)
24	84	85	75
30		85	75
36		85	75
42		85	75
48		85	75
51		85	75
54		85	75
58 5/8		85	75
66		85	75
72		85	75

NOMINAL DIMS			
NOMINAL DIMS		PRESSURES	
WIDTH (in.)	HEIGHT (in.)	NEGATIVE (Psf)	POSITIVE (Psf)
24	90	85	75
30		85	75
36		85	75
42		85	75
48		85	75
51		85	75
54		85	75
58 5/8		85	75
66		85	75
72		85	75

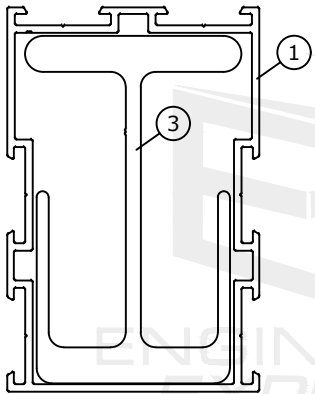
NOMINAL DIMS			
NOMINAL DIMS		PRESSURES	
WIDTH (in.)	HEIGHT (in.)	NEGATIVE (Psf)	POSITIVE (Psf)
24	96	85	75
30		85	75
36		85	75
42		85	75
48		85	75
51		85	75
54		85	75
58 5/8		85	75
66		85	75
72		85	75

NOMINAL DIMS			
NOMINAL DIMS		PRESSURES	
WIDTH (in.)	HEIGHT (in.)	NEGATIVE (Psf)	POSITIVE (Psf)
24	99	85	75
30		85	75
36		85	75
42		85	75
48		85	75
51		85	75
54		85	75
58 5/8		85	75

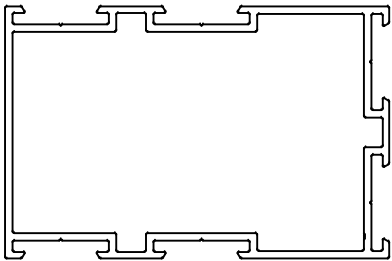
MULLION W/ REINFORCEMENT TYPE 2			
NOMINAL DIMS		PRESSURES	
WIDTH (in.)	HEIGHT (in.)	NEGATIVE (Psf)	POSITIVE (Psf)
24	102	85	75
30		85	75
36		85	75
42		85	75
48		85	75
51		85	75
54		85	75
58 5/8		85	75

NOMINAL DIMS			
NOMINAL DIMS		PRESSURES	
WIDTH (in.)	HEIGHT (in.)	NEGATIVE (Psf)	POSITIVE (Psf)
24	108	85	75
30		85	75
36		85	75
42		85	75
48		85	75
51		85	75
54		85	75
58 5/8		85	75

NOMINAL DIMS			
NOMINAL DIMS		PRESSURES	
WIDTH (in.)	HEIGHT (in.)	NEGATIVE (Psf)	POSITIVE (Psf)
24	109 1/2	85	75
30		85	75
36		85	75
42		85	75
48		85	75
51		85	75
54		85	75
58 5/8		85	75

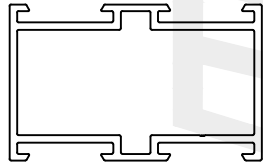


21013 VERTICAL MULLION
WITH REINFORCEMENT
TYPE 2



72" MAX. WIDTH
± 75 Psf MAX. PRESSURE
ALL HEIGHTS.

21013 HORIZONTAL MULLION



55" MAX. WIDTH
± 56 Psf MAX. PRESSURE
ALL HEIGHTS.

21013 HORIZONTAL MULLION

FRANK BENNARDO, P.E.
PE# 0046549 CA# 9885

AUGUST 29, 2023

FL

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Coconut Creek, FL 33073

Elite 2000 Storefront Glazing System
Large/Small Missile Impact Resistance
FBC 8TH ED. (2023) | FLORIDA STATEWIDE APPROVAL

REMARKS	DRWN	CHKD	DATE
PREV. SUBMITTAL (20-28074) JEM	AJP		01/18/21
2023 FBC UPDATE	MRT		08/15/23

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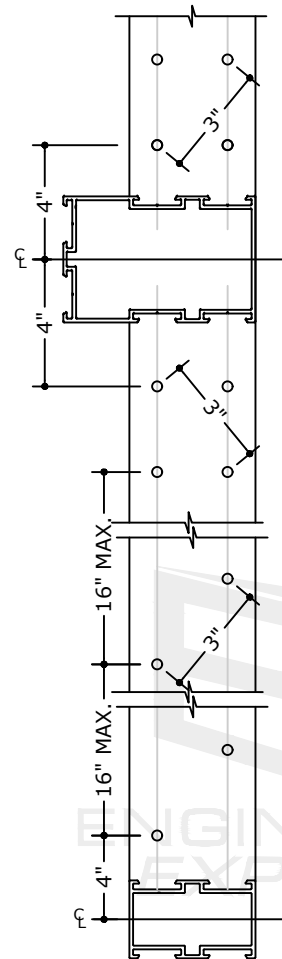
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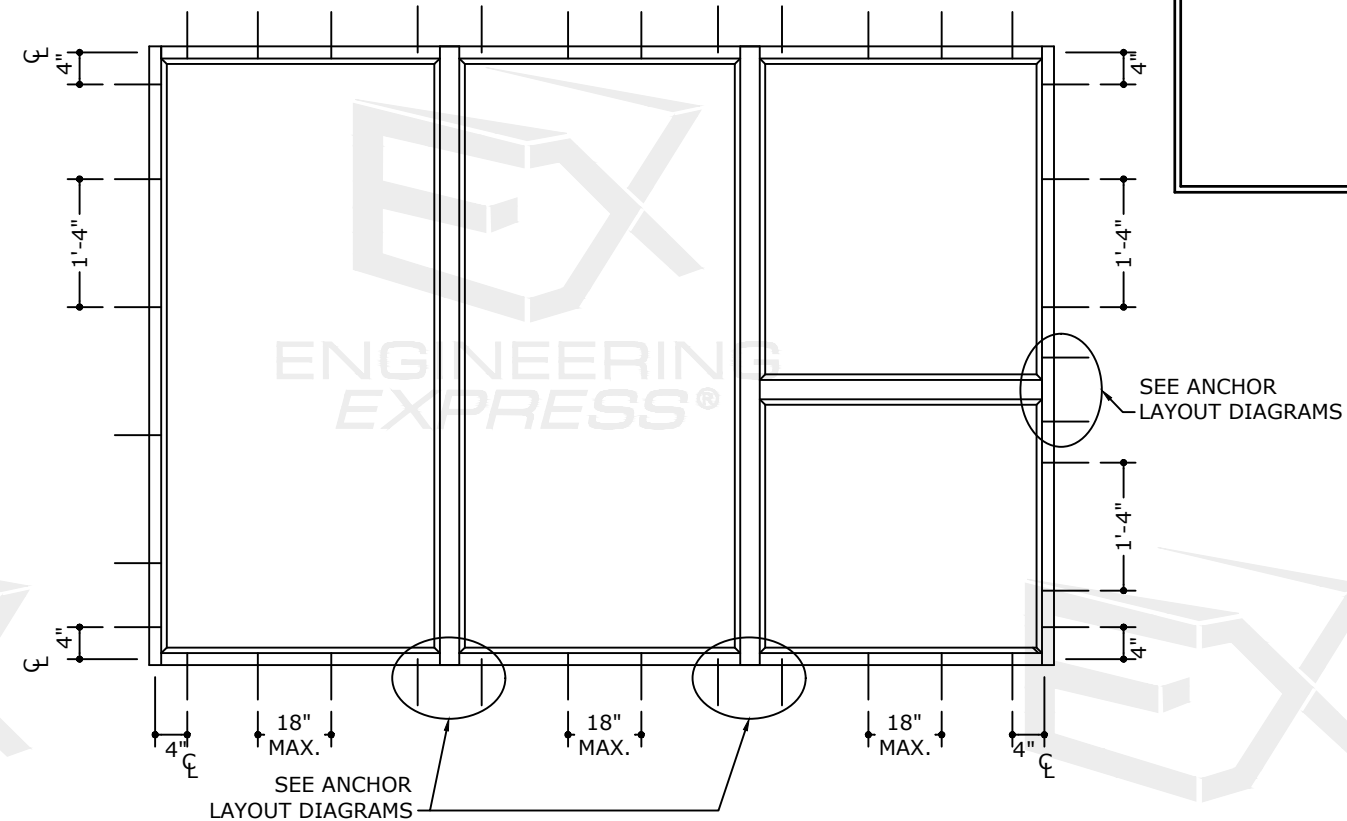
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JAMB ANCHOR LAYOUT (INTO CONCRETE OR METAL)

JAMB ANCHOR LAYOUT (INTO WOOD)



TYPICAL ANCHORS:

TYPE 'A'	
CONCRETE	<u>DIRECTLY INTO CONCRETE OR GROUT FILLED BLOCK (3000 PSI. MIN. / f'm=2000 Psi MIN.)</u> 5/16" DIA. ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI) 1-1/2" MIN. EMBEDMENT
TYPE 'B'	
WOOD	<u>INTO 2BY WOOD BUCKS OR WOOD STRUCTURES (SYP#2 G=0.55 MIN. 1 1/2" MIN. THICKNESS)</u> 5/16" DIA. ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI) 1-1/2" MIN. PENETRATION
TYPE 'C'	
METAL	<u>INTO METAL STRUCTURES (3 PINCHES PASS THE THREAD PLANE MIN.)</u> STEEL: 1/8" THK MIN. (Fy=36 KSI MIN) ALUMINUM: 1/8" THK MIN. (6063-T5 MIN) 5/16-24 DIA. DRIL-FLEX BY 'DEWALT' (GRADE 5 MIN) (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)
<u>TYPICAL EDGE DISTANCE</u> INTO CONCRETE/HOLLOW BLOCK/GROUT FILLED BLOCK= 2-1/2" MIN. INTO WOOD STRUCTURE = 1" MIN. INTO METAL STRUCTURE = 3/4" MIN.	



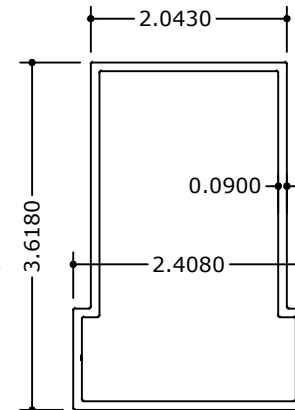
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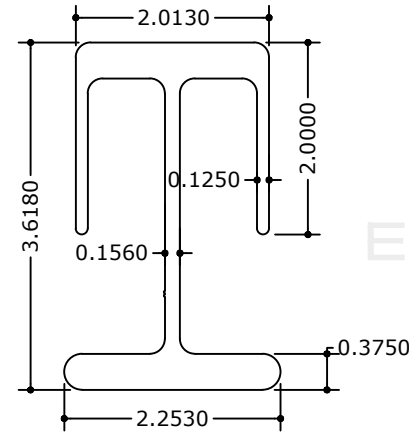
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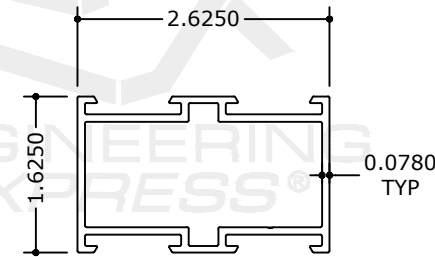
① VERTICAL MULLION



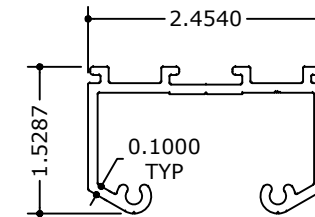
2 VERTICAL MULLION
INSERT (REINF.)



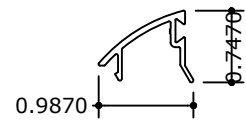
3 VERTICAL MULLION REINFORCEMENT



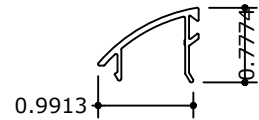
4 PERIMETER EXTRUSION



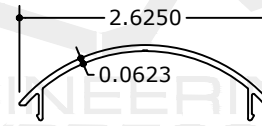
5 CONNECTION BRACKET



6 GLAZING CLIP
(ROUNDED)



7 GLAZING CLIP
(ROUNDED)



8 SNAP TRIM (ROUNDED)

PARTS LIST			
	PART	MATERIAL	PART No.
1	VERTICAL MULLION	ALU 6063-T5	21013
2	VERTICAL MULLION INSERT	ALU 6063-T6	API-2510
3	VERTICAL MULLION REINFORCEMENT	ALU 6063-T5	22056
4	HEAD/ SILL/ JAMB / HORIZ. INTERMEDIATE	ALU 6063-T5	21002
5	CONNECTION BRACKET	ALU 6063-T6	22001
6	GLAZING STOP	ALU 6063-T5	22119
7	GLAZING STOP	ALU 6063-T5	22107
8	SNAP TRIM	ALU 6063-T5	-

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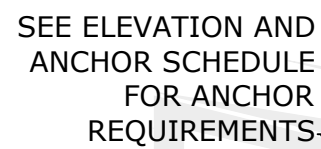
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13



EXISTING HOST
STRUCTURE BY
OTHERS, TYP.

TYP.
BOTH
SIDES

SHEAR BLOCK
AT ALL CONNECTIONS
ILLUSTRATED, TYP.

OPPOSITE SIDE
IS MIRROR IMAGE

FRAME ASSEMBLY DETAIL

NOTE:
SEAL ALL CORNERS WITH
DOWSIL 795 SILICONE OR
C.R. LAURENCE SJ88
NARROW JOINT SEALER.

CONNECTION BRACKET DETAIL

N.T.S.

SECTION