

ELITE ALUMINUM CORPORATION

ELITE 3000 HORIZONTAL SLIDING WINDOW

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.

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DESIGN NOTES

DESIGN PRESSURE CAPACITY:
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 ASCE 7 AND GOVERNING
CODE. SITE SPECIFIC PRESSURES SHALL BE LESS THAN
OR EQUAL TO THE LISTED POSITIVE OR NEGATIVE
DESIGN PRESSURE VALUES

GENERAL NOTES

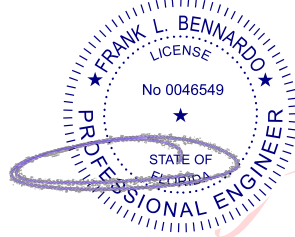
- THE SYSTEM DESCRIBED HEREIN HAS BEEN DESIGNED AND TESTED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE NINTH EDITION (2026), FOR USE WITHIN AND OUTSIDE THE HIGH VELOCITY HURRICANE ZONE, PER TAS 201 / 202 / 203 STANDARDS.
- THIS SYSTEM HAS BEEN TESTED AND EVALUATE AS A LARGE MISSILE IMPACT RESISTANCE (LEVEL D) AND SMALL MISSILE IMPACT RESISTANCE PRODUCT FOR PROTECTION FROM WIND-BORNE DEBRIS.
- WIND LOAD DURATION FACTOR Cd=1.6 HAS BEEN USED FOR WOOD ANCHOR DESIGN.
- UNITS GLAZED WITH 3/4" LAMINATED GLASS (LAMINATED WITH 0.010 SAFLEX HP INTERLAYER) ARE LARGE MISSILE IMPACT RESISTANT AND DO NOT REQUIRE IMPACT RESISTANT SHUTTERS. THIS PRODUCT IS APPROVED FOR OX, XO, AND XX CONFIGURATIONS.
- EXTERIOR SEAM OF FRAME CORNER SHALL BE SEALED WITH STRUCTURAL SILICONE. SEE DETAIL 1/4 FOR MORE INFORMATION.
- MULTIPLE UNITS MAY BE INSTALLED USING STRUCTURAL MULLIONS OR OTHER STRUCTURAL SUPPORTS PER SEPARATE CERTIFICATION.
- 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 WIND LOAD REQUIREMENTS SHALL BE DETERMINED IN ACCORDANCE WITH ASCE 7 AND THE GOVERNING BUILDING CODE 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.
- DESIGN PRESSURES NOTED HEREIN ARE BASED ON MAXIMUM TESTED PRESSURES DIVIDED BY A 1.5 SAFETY FACTOR.
- GLAZING DETAILS ILLUSTRATED HEREIN UTILIZE 0.100" SAFLEX HP INTERLAYER BY EASTMAN CHEMICAL COMPANY (NOA# 14-0423.16).
NOTE: IF THIS N.O.A.# HAS BEEN SUPERSEDED, USE MOST RECENT N.O.A.# VERSION.
- SYSTEMS SHALL BE AS NOTED HEREIN. ALL REFERENCES TO EXTRUSIONS & INSTALLATIONS SHALL CONFORM TO THAT OF MANUFACTURER'S SPECIFICATIONS AS SUMMARIZED 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 CONTRACTOR IS RESPONSIBLE TO INSULATE ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.
- ALL FASTENERS TO BE 1/4"Ø SAE GRADE 5 CARBON STEEL UNLESS NOTED OTHERWISE. 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, INC., & ANY APPLICABLE FEDERAL, STATE, AND/OR LOCAL CODES.
- ALL ULTRACONS SPECIFIED HEREIN REFER TO DEWALT CARBON STEEL ULTRACONS FASTENERS TO 3" MIN. THICK 3,515 PSI MIN. NON-CRACKED CONCRETE OR ASTM C-90 BLOCK, HOLLOW OR GROUT FILLED (BY OTHERS). REFER TO FASTENER MANUFACTURER'S PUBLISHED DATA SHEETS AND RECOMMENDATIONS FOR FASTENER INSTALLATION INSTRUCTIONS.
- THESE APPROVAL DOCUMENTS ARE SUITABLE TO BE APPLIED BY THE CONTRACTOR PROVIDED THE CONTRACTOR DOES NOT DEViate FROM THE CONDITIONS DETAILED HEREIN AND THE CONTRACTOR VERIFIES THAT THE EXISTING STRUCTURE DOES NOT DEViate IN EITHER FORM OR MATERIAL FROM THE STRUCTURAL SUBSTRATES DETAILED HEREIN.
- 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.
- 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
- ALL ALUMINUM EXTRUSION SHALL BE EQUIVALENT TO OR GREATER THAN THE MINIMUM ALLOYS AND TEMPERS AS SPECIFIED IN THE BILL OF MATERIALS. SEE LAST SHEET FOR MORE INFORMATION.
- PRODUCT SHALL BE PERMANENTLY LABELED WITH A MINIMUM OF ONE LABEL PER WINDOW CONTAINING THE FOLLOWING:

ELITE ALUMINUM CORPORATION
COCONUT CREEK, FLORIDA
TAS 201/202/203 , ASTM E1300
APPROVED BY FLORIDA BUILDING COMMISSION
FLORIDA PRODUCT APPROVAL NUMBER
- ALL 3/16"Ø OR 1/4"Ø POP RIVETS, IF USED AS PART OF MANUFACTURER ASSEMBLY PER APPROVED TEST REPORTS, SHALL BE 5056-H32 MIN. ALUMINUM ALLOY.
- THE SYSTEM DETAILED HEREIN HAS BEEN TESTED PER THE TEST STANDARD(S) LISTED ABOVE AS REFERENCED IN THE TEST REPORTS #HETI-04-1405 AND HETI-04-1916 BY HURRICANE ENGINEERING AND TESTING, INC.
- SAFEGUARDS MUST BE OBSERVED (NOT IN THIS CERTIFICATION)
- FOR PERMANENT OUTDOOR INSTALLATIONS, ALL EXPOSED ANCHORS, FASTENERS, CONNECTORS, AND METAL PLATES SHALL BE CORROSION RESISTANT. CORROSION RESISTANCE MAY BE PROVIDED BY INHERENT MATERIAL COMPOSITION OR, WHERE PERMITTED BY CODE, BY AN APPROVED PROTECTIVE COATING OR GALVANIZATION. WHERE APPLICABLE NEAR A SALTWATER COASTLINE, SUCH COMPONENTS SHALL COMPLY WITH FBC SECTION 1711, INCLUDING APPLICABLE REQUIREMENTS FOR EXPOSED, PROTECTED, OR ENCLOSED CONDITIONS. MATERIALS, COATINGS, AND FINISHES SHALL BE COMPATIBLE WITH CONNECTED MATERIALS, AND PROTECTIVE COATINGS SHALL BE CONTINUOUS OVER EXPOSED SURFACES. FASTENERS USED WITH ALUMINUM MEMBERS SHALL ALSO COMPLY WITH SECTION J.3.7.2 OF THE ALUMINUM DESIGN MANUAL, "SPECIFICATION FOR ALUMINUM STRUCTURES." SUBSTITUTION OF COMPONENTS FROM ALTERNATE MANUFACTURERS, OR WITH DIFFERENT MATERIALS, COATINGS, OR FINISHES, SHALL NOT BE ASSUMED EQUIVALENT AND MAY REQUIRE ADDITIONAL ENGINEERING REVIEW OR SITE-SPECIFIC ANALYSIS.

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

JULY 31, 2026



Digitally signed by
Frank Bennardo
Date: 2026.08.18
13:49:07 -04'00'

NOTE REGARDING USE OF THIS DOCUMENT & USE OUTSIDE FLORIDA:

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SEE **ECALC.IO/SEAL** TO LEARN MORE.

TERMINOLOGY:

THE FOLLOWING ABBREVIATIONS APPEAR IN THIS APPROVAL:
"FBC" FOR "FLORIDA BUILDING CODE", "CORP." FOR "CORPORATION", "ALUM" FOR "ALUMINUM", "ASD" FOR "ALLOWABLE STRESS DESIGN", "ASTM" FOR "AMERICAN SOCIETY FOR TESTING AND MATERIALS", "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.

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& MORE INFORMATION ABOUT THIS DOCUMENT
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Elite Aluminum Corporation

4650 Lyons Technology Parkway
Coconut Creek, FL 33073

Elite 3000 XX Horizontal Sliding Window
Large/Small Missile Impact Resistance
FBC 9TH ED. (2026) | FLORIDA STATEWIDE APPROVAL

REMARKS	DRWN	CHKD	DATE
PREV. SUBMITTAL (20-20086)	JEM	AJP	01/18/21
PREV. SUBMITTAL (23-59966)	MRT	RWN	08/21/23
2026 FBC UPDATE	AEG	RS	07/31/26

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1 OF 4

+ 60 PSF
- 65 PSF

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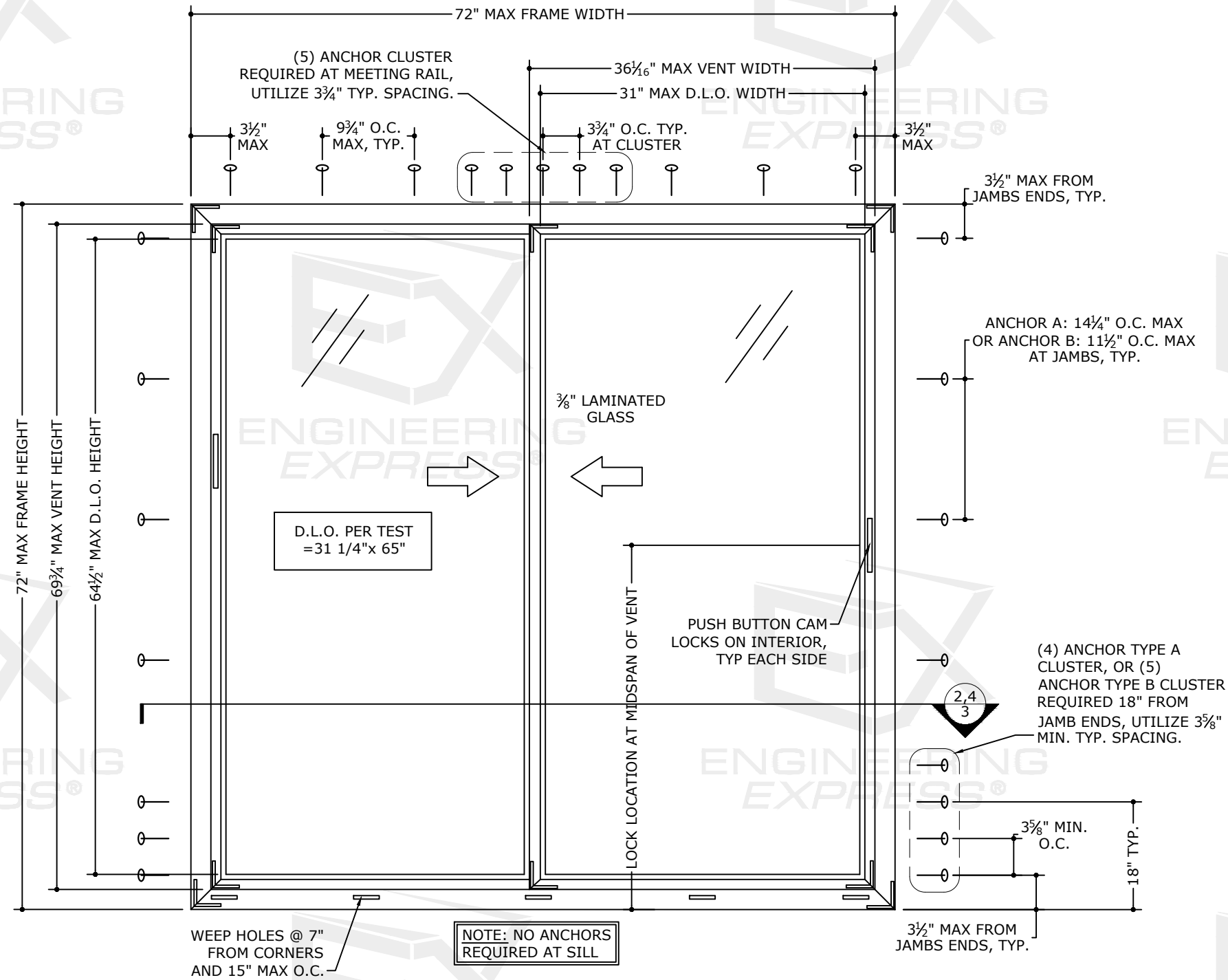
Large/Small Missile Impact Resistance

FBC 9TH ED. (2026) | FLORIDA STATEWIDE APPROVAL

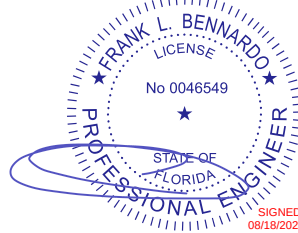
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PREV. SUBMITTAL (20-28066)	JEM	AJP	01/18/21
PREV. SUBMITTAL (23-59966)	MRT	RWN	08/21/23
2026 FBC UPDATE	AEG	RS	07/31/26
-	-	-	-
-	-	-	-

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1 TYPICAL EXTERIOR ELEVATION
2 N.T.S. INTERIOR ELEV



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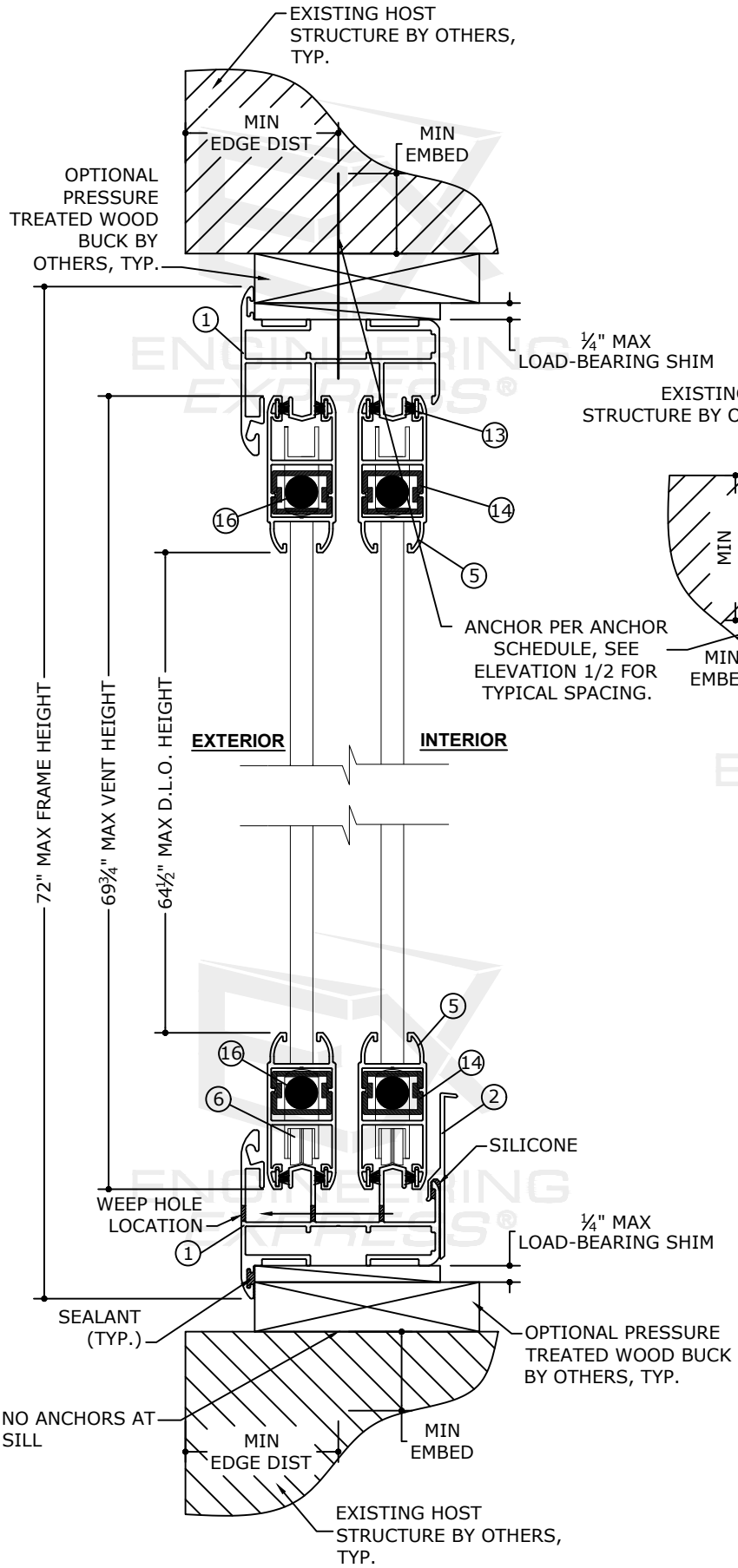
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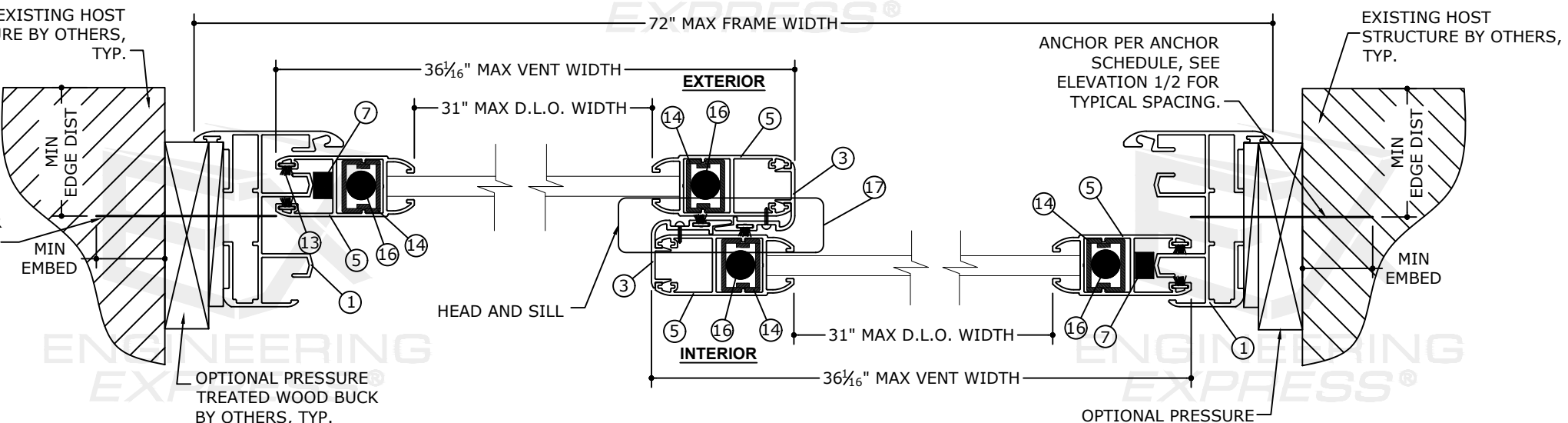
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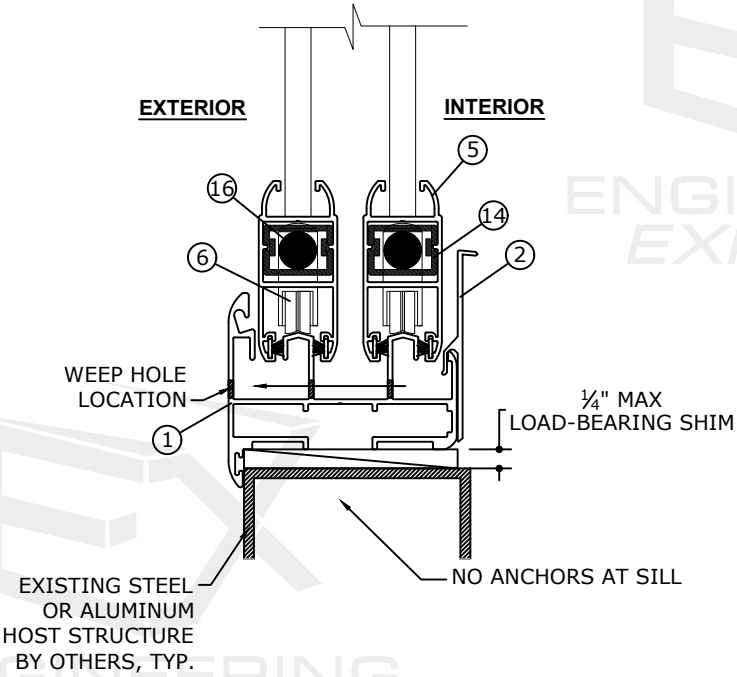
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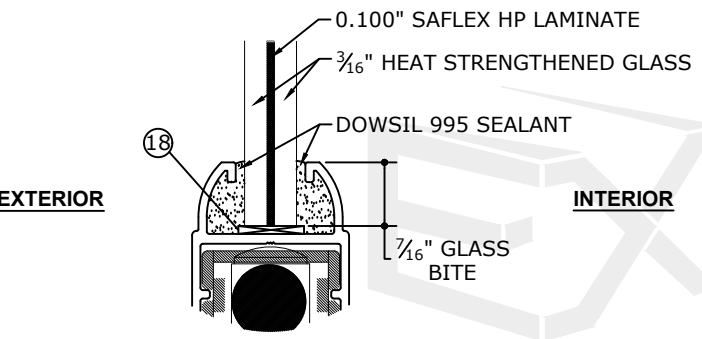
1 TYPICAL VERTICAL SECTION
2 N.T.S. VERT SECT



2 TYPICAL HORIZONTAL SECTION
2 N.T.S. HORIZ SECT



4 ALTERNATE CONN TO ALUM/STEEL
2 N.T.S. VERT SECT

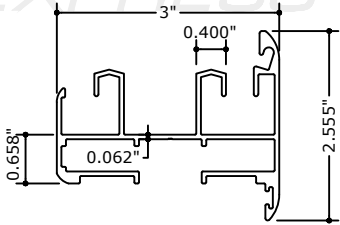


3 GLAZING DETAIL
2 N.T.S. VERT SECT

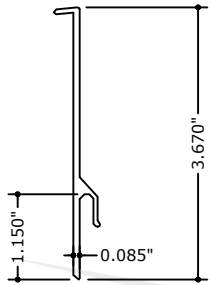
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ANCHOR SCHEDULE:

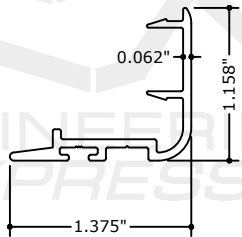
ANCHOR TYPE	ANCHOR DESCRIPTION
"A"	5/16"Ø DEWALT ULTRACON (1¾" MIN EMBED TO 3" MIN. THICK 3515 PSI MIN. NON-CRACKED CONCRETE, 2½" MIN. EDGE DISTANCE). 5/16"Ø DEWALT ULTRACON (1¼" MIN EMBED TO HOLLOW BLOCK, OR 2¼" MIN EMBED TO GROUT FILLED BLOCK, 4" MIN. EDGE DISTANCE). 5/16"Ø SMS INTO 6063-T6 MIN. ALUMINUM OR A36 MIN. STEEL (1/8" MIN. THICKNESS). PROVIDE (5) PINCHES MIN. PAST THREAD PLANE.
"B"	5/16"Ø LAG SCREW INTO 2x WOOD BUCK OR WOOD STRUCTURE (2½" MIN. THREAD PENETRATION, 7/8" MIN. EDGE DISTANCE).



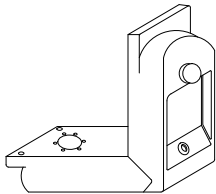
1 FRAME STILE & RAIL
N.T.S. 6063-T6 ALUM



2 SILL RISER
N.T.S. 6063-T6 ALUM



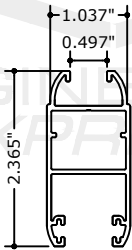
3 INTERLOCK ADAPTOR
N.T.S. 6063-T6 ALUM



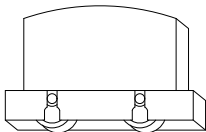
4 CAST CORNER LOCK
N.T.S. DIE CAST ALUM

ANCHOR NOTES:

- SEE EXTERIOR ELEVATION 1/2 FOR ANCHOR LOCATIONS AND/OR SPACING.
- ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.
- PROVIDE 5/8" MIN. EDGE DISTANCE TO ALUMINUM SUBSTRATE AND 15/16" MIN. EDGE DISTANCE TO STEEL SUBSTRATE.
- ALL CONCRETE ANCHORS SHALL BE INSTALLED TO NON-CRACKED CONCRETE ONLY.
- WOOD HOST STRUCTURE SHALL BE "SOUTHERN PINE" G=0.55 OR GREATER DENSITY.
- MINIMUM EMBEDMENT SHALL BE AS NOTED IN ANCHOR SCHEDULE. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES STUCCO, FOAM, BRICK, AND OTHER WALL FINISHES.
- WHERE EXISTING STRUCTURE IS WOOD FRAMING, EXISTING CONDITIONS MAY VARY. FIELD VERIFY THAT FASTENERS ARE INTO ADEQUATE WOOD FRAMING MEMBERS, NOT INTO PLYWOOD.
- WOOD BUCKS (BY OTHERS) SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE EXISTING STRUCTURE.



5 VENT STILES & RAILS
N.T.S. 6063-T6 ALUM



6 TANDEM ROLLER ASSEMBLY
N.T.S. POLYPROPYLENE



14 VENT FRAME INSERT
N.T.S. 6063-T6 ALUM



16 ALUM ROD INSERT
N.T.S. 6061-T6 ALUM

Bill of Materials

	PART #	DESCRIPTION	MATERIAL	REMARKS
1	26210	FRAME STILE & RAIL	6063-T6	-
2	23033	SILL RISER	6063-T6	-
3	26225	INTERLOCK ADAPTER*	6063-T6	-
4	26218	CAST CORNER LOCK	ALUM	BY ALSHIN
5	26211	VENT STILES & RAILS	6063-T6	-
6	26030	TANDEM ROLLER ASSEMBLY 5245	POLYPROPYLENE	BY ALSHIN
7	26219	SECURITY BLOCK	POLYPROPYLENE	BY PALMAT
8	26223	LATCH HOOK	STAINLESS STEEL	BY YADID
9	26223	KEEPER BASE	NYLON	BY YADID
10	26223	KEEPER	6063-T6	BY YADID
11	26222	WEEP COVER	PLASTIC	BY ASHLAND
12	26221	PLASTIC CAP	PLASTIC	BY PALMAT
13	23007	WOOL PILE WITH FIN W21275NK	-	ULTRAFAB
14	25607	VENT FRAME INSERT**	6063-T6	BY THE LOXCREEN CO.
15	26223	PUSH BUTTON CAM LATCH	6063-T6	BY YADID
16	26223	ALUMINUM ROD INSERT**	6061-T6	-
17	26220	1.94"X0.99"X0.61 HIGH FCH PAD	-	ULTRAFAB
18	1/2"	SETTING BLOCK 2" LONG 80 DUROMETER MIN. (2) PER GLASS AT 1/4 POINTS	-	-

BILL OF MATERIALS NOTE:

* ADHERED TO FRAME WITH SILICONE AND ATTACHED WITH #10x1-1/4" SMS, 1-7/16" FROM EACH END AND 18" O.C. FOR THE BALANCE.

** ATTACHED WITH #10x½" SMS, (1) AT EACH END AND 18" O.C. FOR THE BALANCE.

(2) CORNER LOCKS PER FRAME CORNER FASTENED TO FRAME WITH (1) ¼"-20 SMS PER LEG

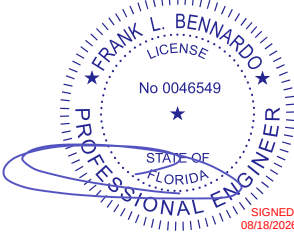
(1) CORNER LOCKS PER VENT CORNER FASTENED TO VENT WITH (1) ¼"-20 SMS PER LEG

NOTE:
SEAL ALL CORNER WITH DOW CORNING 995

1 CORNER ASSEMBLY DETAIL
4 N.T.S. ELEV VIEW

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