Business & Professional Regulation







Product Approval Menu > Application Detail

FL# FL11020-R5 Application Type Revision Code Version 2023 Application Status Approved

Comments Archived

Product Manufacturer Elite Aluminum Corporation Address/Phone/Email 4650 Lyons Technology Parkway

Coconut Creek, FL 33073

(954) 949-3200

bpeacock@elitealuminum.com

Authorized Signature Frank Bennardo P.E.

frank@engineeringexpress.com

Technical Representative Bruce Peacock

Address/Phone/Email 4650 Lyons Technology Parkway

Coconut Creek, FL 33073

(954) 949-3200

bpeacock@elitealuminum.com

Quality Assurance Representative

Address/Phone/Email

Windows Category

Subcategory Horizontal Slider

Compliance Method Evaluation Report from a Florida Registered Archite

Professional Engineer

Frank L. Bennardo

Evaluation Report - Hardcopy Received

Florida Engineer or Architect Name who developed the

Evaluation Report

PE-0046549 Florida License Quality Assurance Entity **QAI** Laboratories Quality Assurance Contract Expiration Date 12/31/2025

Validated By John Henry Kampmann Jr.

Validation Checklist - Hardcopy Received

Certificate of Independence FL11020 R5 COI INDEP.pdf

Referenced Standard and Year (of Standard) **Standard**

> **TAS 201 TAS 202**

Equivalence of Product Standards Certified By

Sections from the Code

Date Submitted 08/21/2023
Date Validated 09/04/2023
Date Pending FBC Approval 09/07/2023
Date Approved 10/17/2023

Summary of Products

FL #	Model, Number or Name	Description	
11020.1	Elite 3000 Horizontal Sliding Window, LMI/SMI	Elite 3000 Horizontal Sliding Window L Resistant	
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +60/-65 Other: Refer to engineering drawing for limitations of use.		Installation Instructions FL11020 R5 II DOC1.pdf Verified By: Frank L. Bennardo #PE004 Created by Independent Third Party: Y Evaluation Reports FL11020 R5 AE EVAL1.pdf Created by Independent Third Party: Y	
11020.2	Elite 3000 Horizontal Sliding Window, NI	Elite 3000 Horizontal Sliding Window N	
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +55/-55 Other: Refer to engineering drawing for limitations of use.		Installation Instructions FL11020 R5 II DOC2.pdf Verified By: Frank L. Bennardo # PE00 Created by Independent Third Party: Y Evaluation Reports FL11020 R5 AE EVAL2.pdf Created by Independent Third Party: Y	





Contact Us :: 2601 Blair Stone Road, Tallahassee FL 32399 Phone: 850-487-1824

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Under Florida law, email addresses are public records. If you do not want your e-mail address released in response to a publi electronic mail to this entity. Instead, contact the office by phone or by traditional mail. If you have any questions, please cont Section 455.275(1), Florida Statutes, effective October 1, 2012, licensees licensed under Chapter 455, F.S. must provide the address if they have one. The emails provided may be used for official communication with the licensee. However email address which to supply a personal address, please provide the Department with an email address which can be made available to are a licensee under Chapter 455, F.S., please click <a href="https://example.com/her-emails-new-mail-emails-new-mail-emails-new-mail-emails-new-mail-emails-new-mail-emails-new-mail-emails-new-mail-emails-new-mail-emails-new-mail-emails-new-mail-emails-new-mail-emails-new-mail-emails-new-mail-emails-new-mail-emails-new-mail-email-

Product Approval Accepts:





August 29, 2023

Product Approval Administrator DBPR Codes and Standards 2601 Blair Stone Road Tallahassee, FL 32399

Regarding: Elite Aluminum Corporation

Elite 3000 Horizontal Sliding Window Large/Small Missile Impact

Resistance - FL #11020.1 - EX # 23-59966

Elite 3000 Horizontal Sliding Window Non-Impact Resistance - FL

#11020.2 - EX # 23-59967

To Whom It May Concern:

Please be advised that the below-signed engineer does not have nor will acquire a financial interest in the company manufacturing or distributing the product(s) for which an evaluation report or validation certification has been prepared, as referenced above. This engineer is not owned, operated, nor controlled by the manufacturer or distributor noted above and does not have any financial interest in any other entity involved in the approval process of the above-noted product(s).

Note: "EX #" where used above is an abbreviation for "Engineering Express (EX) Project Number".

Respectfully,

Digitally signed by Frank Bennardo Date: 2023.08.29

15:20:39 -04'00'

Frank Bennardo, P.E. **ENGINEERING EXPRESS**®

#PE0046549 | Cert. Auth. 9885

ELITE ALUMINUM CORPORATION ELITE 5000 HORIZONTAL SLIDING WINDOW

NON-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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INSTALLATION DETAILS	2			
INSTALLATION DETAILS	3			
PARTS, ANCHOR SCHEDULE & BILL OF MATERIALS	4			

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

6. 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 EIGHTH EDITION (2023), FOR USE WITHIN AND OUTSIDE THE HIGH VELOCITY HURRICANE ZONE, PER TAS 202 & ASTM
- THIS SYSTEM UTILIZES 1/4" TEMPERED GLASS, AND IS NON-IMPACT RATED. IF REQUIRED, ADDITIONAL IMPACT RESISTANCE MUST BE PROVIDED FOR USE WITH THIS SYSTEM. THIS PRODUCT IS APPROVED FOR OX, XO, AND XX CONFIGURATIONS. (REFER TO ELITE 3000 HORIZONTAL SLIDING WINDOW-LARGE MISSILE IMPACT RESISTANT FL#FL11020.1 FOR THE IMPACT APPROVED VERSION OF THIS SYSTEM)
- WIND LOAD DURATION FACTOR Cd=1.6 HAS BEEN USED FOR
- 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
- 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.
- 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.
- 10. THE CONTRACTOR IS RESPONSIBLE TO INSULATE ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.
- 11. 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.
- 12. ALL ULTRACONS SPECIFIED HEREIN REFER TO DEWALT CARBON STEEL ULTRACONS FASTENED TO 3" MIN. THICK 3,515 PSI MIN. NON-CRACKED CONCRETE, OR ASTM C-90 BLOCK, HOLLOW OR 22. GROUT FILLED (BY OTHERS). REFER TO FASTENER MANUFACTURER'S PUBLISHED DATA SHEETS AND RECOMMENDATIONS FOR FASTENER INSTALLATION INSTRUCTIONS
- 13. 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
- PRESSURE VALUES ON THIS APPROVAL ARE (ASD) 16. ALLOWABLE DESIGN PRESSURES.
- 17. 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 20. MINIMUM OF ONE LABEL PER WINDOW CONTAINING THE FOLLOWING:

ELITE ALUMINUM CORPORATION COCONUT CREEK, FLORIDA TAS 201, ASTM E1300-04 APPROVED BY FLORIDA BUILDING COMMISSION FLORIDA PRODUCT APPROVAL NUMBER

- ALL 3/16"Ø OR 1/4"Ø POP RIVETS, IF USED AS PART 21. 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 TEST REPORT #HETI-08-2139 BY HURRICANE ENGINEERING AND TESTING, INC.
- SAFEGUARDS MUST BE OBSERVED (NOT IN THIS 23. CERTIFICATION)

NOTE REGARDING USE OF THIS DOCUMENT & USE OUTSIDE FLORIDA:

FRANK BENNARDO, P.E.

PE# 0046549 CA# 9885

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.

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", "CS" FOR "CARBON STEEL", "CONN" FOR "CONNECTION", "EMBED" FOR oratio "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.

FL 11020.2

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AUGUST 29, 2023

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on

Elite

3000 XX Horizontal Sliding Wind Non-Impact Resistance (2023) | FLORIDA STATEWIDE

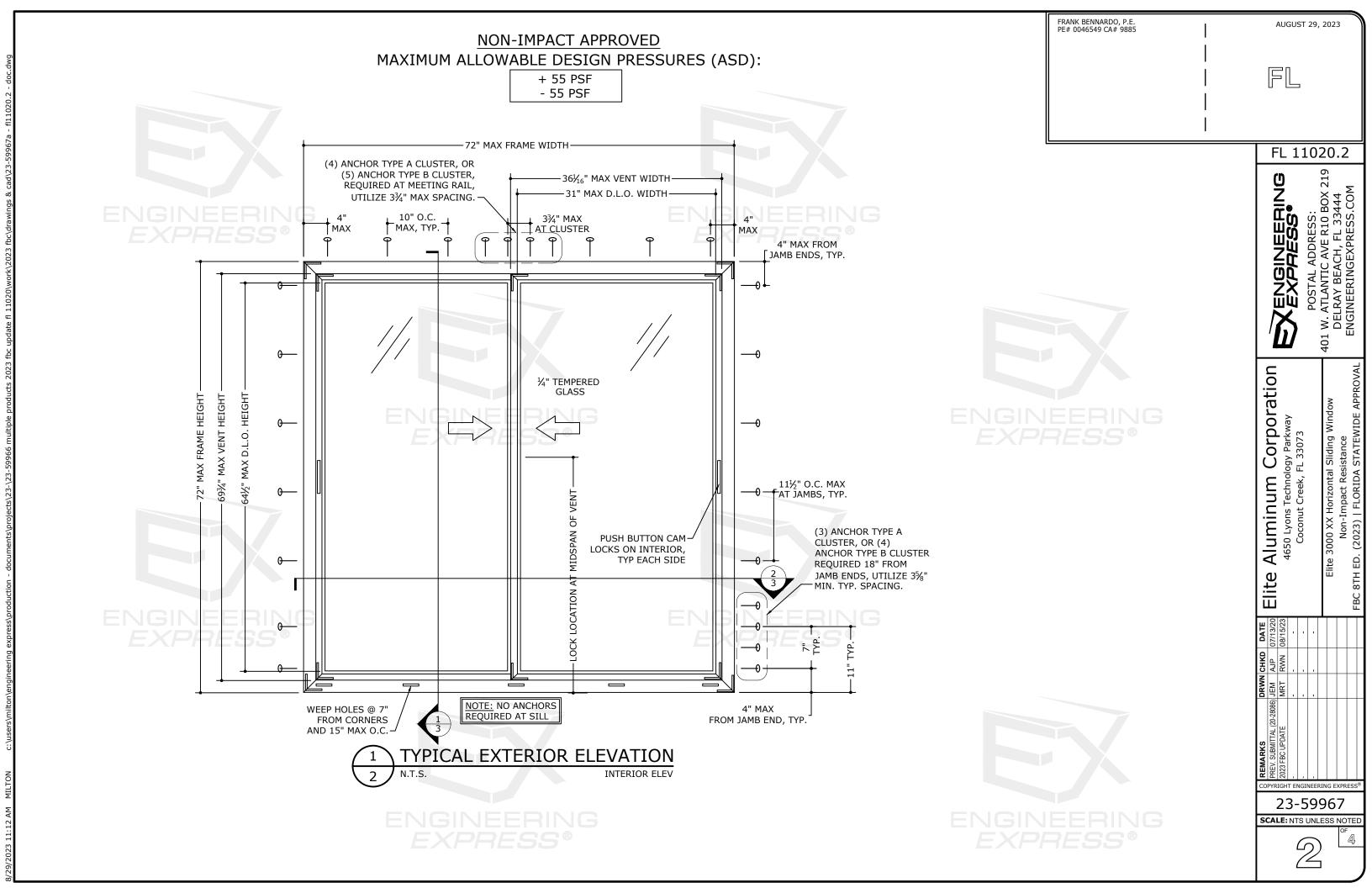
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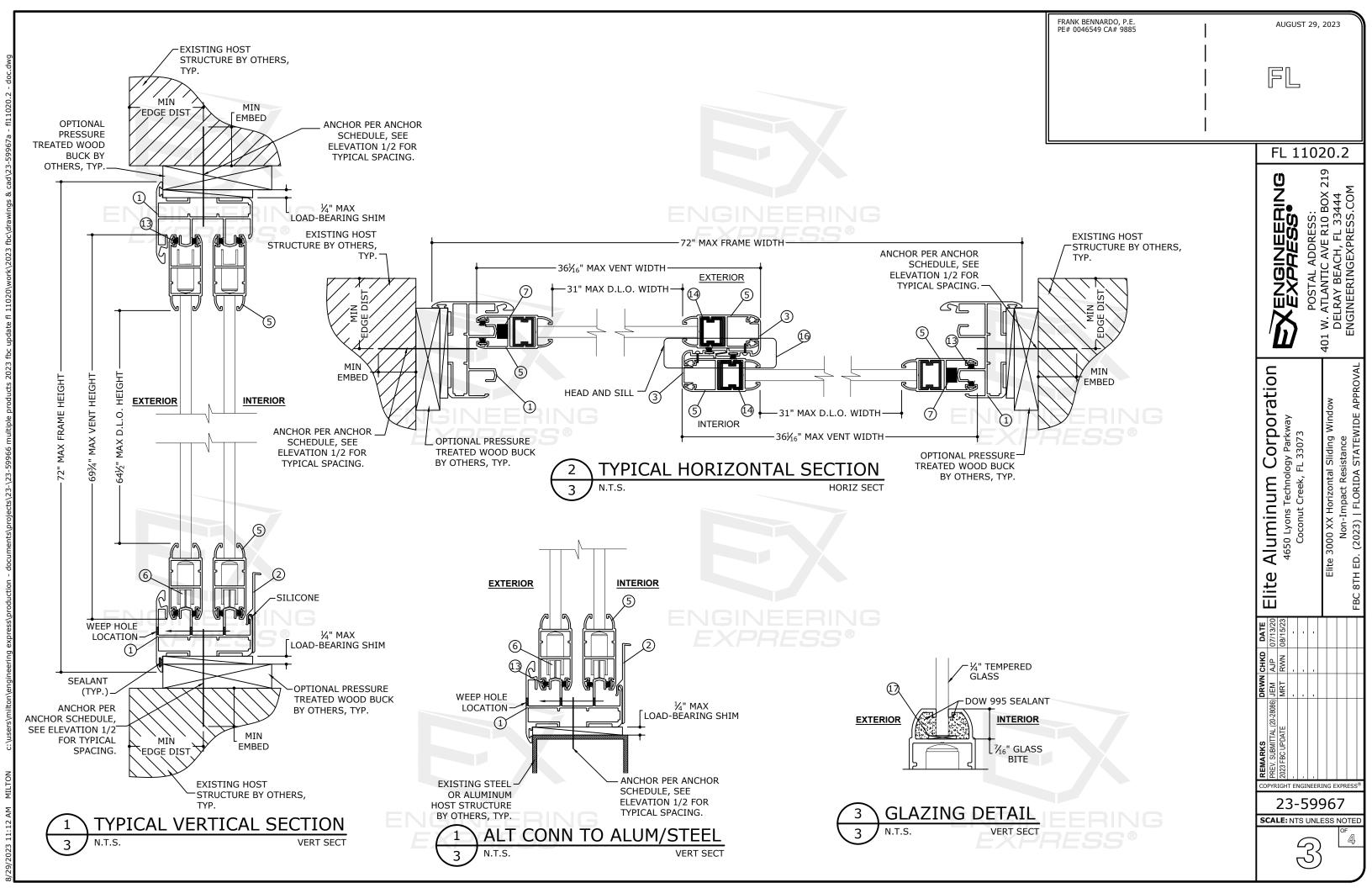
SCALE: NTS UNLESS NOTED

VISIT ECALC.IO/59967

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

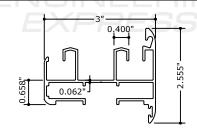
VISIT ENGINEERINGEXPRESS.COM/STORE FOR ADDITIONAL PLANS, REPORTS & RESOURCES



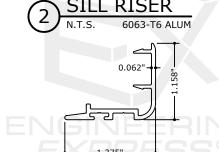


ANCHOR SCHEDULE:

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). ¾6"Ø SMS INTO 6063-T6 MIN. ALUMINUM OR A36 MIN. STEEL (1/8" MIN. THICKNESS). PROVIDE (5) PINCHES MIN. PAST THREAD PLANE. 	
"B"	• \S_{16} "Ø LAG SCREW INTO 2x WOOD BUCK OR WOOD STRUCTURE (2½" MIN. THREAD PENETRATION, 7/8" MIN. EDGE DISTANCE).	



FRAME STILE & RAIL N.T.S. 6063-T6 ALLIM







CAST CORNER LOCK

ANCHOR NOTES:

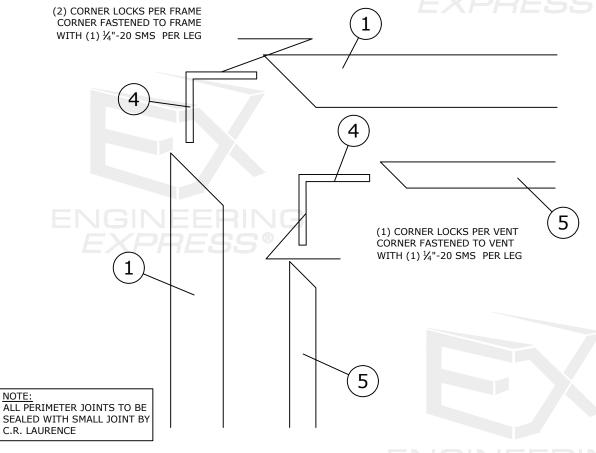
- 1. SEE EXTERIOR ELEVATION 1/2 FOR ANCHOR LOCATIONS AND/OR SPACING.
- 2. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.
- 3. PROVIDE 5/8" MIN. EDGE DISTANCE TO ALUMINUM SUBSTRATE AND 15/16" MIN. EDGE DISTANCE TO STEEL
- 4. ALL CONCRETE ANCHORS SHALL BE INSTALLED TO NON-CRACKED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

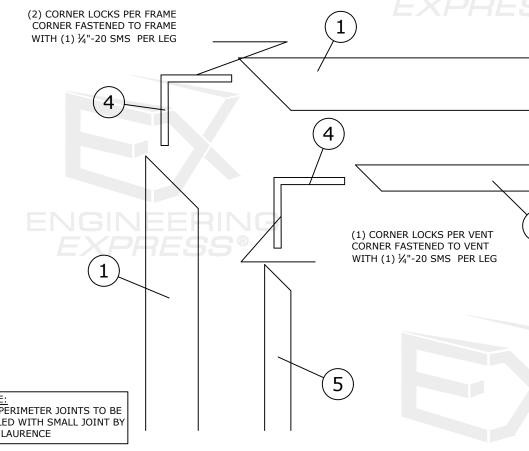
Bill of Materials

_						
	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	26220	2"x15/16" DUST PAD	6061-T6	ULTRAFAB		
17	7 1/2" SETTING BLOCK 2" LONG 80 DUROMETER MIN. (2) PER GLASS AT 1/4 POINTS					
) TI	ILL OF MATERIALS NOTE:					

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

- * 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.





VENT FRAME INSERT

VENT STILES & RAILS

TANDEM ROLLER ASSEMBLY

(2) PER VENT

POLYPROPYLENE

CORNER ASSEMBLY DETAIL

FL 11020.2

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AUGUST 29, 2023

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Aluminum Corporation 4650 Lyons Technology Parkway Coconut Creek, FL 33073

Elite

23-59967 SCALE: NTS UNLESS NOTED





ENGINEERING EXPRESS® (EX) PRODUCT EVALUATION REPORT

August 15, 2023

Application Number: FL 11020.2 EX Project Number: 23-59967

Product Manufacturer: Elite Aluminum Corporation
Manufacturer Address: 4650 Lyons Technology Parkway

Coconut Creek, FL 33073

Product Name & Description: Elite 3000 Horizontal Sliding Window

Non-Impact Resistance

Scope of Evaluation:

This Product Evaluation Report is being issued in accordance with the requirements of the Florida Department of Business and Professional Regulation (Florida Building Commission) Rule Chapter 61G20-3.005, F.A.C., for statewide acceptance per Method 1 (d). The product noted above has been tested and/or evaluated as summarized herein to show compliance with standard ASCE 7-22 (ASD) and the Florida Building Code Eighth Edition (2023) and is, for the purpose intended, at least equivalent to that required by the Standard and Code. Re-evaluation of this product shall be required following pertinent Florida Building Code or ASCE Standard modifications or revisions.

Substantiating Data:

• PRODUCT EVALUATION DOCUMENTS

EX Performance Evaluation document #23-59967 titled "Elite 3000 Horizontal Sliding Window Non-Impact Resistance", prepared by Engineering Express, Inc., signed & sealed by Frank Bennardo, P.E. is an integral part of this Evaluation Report, pages 1 through 4.

• TEST REPORTS

The product has been tested per the following:

Test Lab	Test Report #	Test Standard	Test Description	Signed & Sealed By:
Hurricane Engineering & Testing, Inc. (HETI)	#HETI-08-2139	TAS 202-94	Uniform Static Structural Performance	Candido Font, P.E.



Elite Aluminum Corporation - Elite 3000 Horizontal Sliding Window, Non-Impact Resistance

• STRUCTURAL ENGINEERING CALCULATIONS

Structural engineering calculations have been prepared which evaluate the product based on comparative and/or rational analysis to qualify the following design criteria:

- 1. Anchor Spacing
- 2. Maximum Allowable Size/Pressure Combinations.
- 3. Glass Capacity.
- 4. Anchor Capacity.

Impact Resistance:

Large / Small Missile Impact Resistance has NOT been demonstrated as evidenced in previously listed test reports, and is NOT accounted for in the engineering design of this product.

Wind Load Resistance:

This product has been designed to resist wind loads as indicated on its respective Performance Evaluation document (i.e. engineering document).

Installation:

The product listed above shall be installed in strict compliance with the Performance Evaluation document (i.e. engineering document), along with all components noted therein.

The product components shall be of the material specified in the Performance Evaluation document (i.e. engineering document).

Limitations & Conditions of Use:

Use of each product shall be in strict accordance with its respective Performance Evaluation document (i.e. engineering document) as noted herein.

All supporting host structures shall be designed to resist all superimposed loads and shall be of a material listed in each product's respective anchor schedule. Host structure conditions which are not accounted for in each product's respective anchor schedule shall be designed for on a site-specific basis by a registered professional engineer.

All components which are permanently installed shall be protected against corrosion, contamination, and other such damage at all times. Any alteration to the respective Performance Evaluation document will invalidate it. This product has been designed for use inside and outside of the High Velocity Hurricane Zone (HVHZ & NON-HVHZ).

Respectfully,

Frank Bennardo, P.E.

ENGINEERING EXPRESS®

#PE0046549 | Cert. Auth. 9885

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STATE OF

FLORIDA

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Digitally signed by Frank Bennardo

Date: 2023.08.29

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