

FLORIDA DEPARTMENT OF
Business & Professional Regulation

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Product Approval
USER: Public User

[Product Approval Menu](#) > **Application Detail**

OFFICE OF THE
SECRETARY

FL #	FL11020-R5
Application Type	Revision
Code Version	2023
Application Status	Approved
Comments	
Archived	<input type="checkbox"/>
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	
Category	Windows
Subcategory	Horizontal Slider
Compliance Method	Evaluation Report from a Florida Registered Architect Professional Engineer <input type="checkbox"/> Evaluation Report - Hardcopy Received
Florida Engineer or Architect Name who developed the Evaluation Report	Frank L. Bennardo
Florida License	PE-0046549
Quality Assurance Entity	QAI Laboratories
Quality Assurance Contract Expiration Date	12/31/2025
Validated By	John Henry Kampmann Jr. <input checked="" type="checkbox"/> 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

Product Approval Method

Method 1 Option D

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 NI
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 # PE004 Created by Independent Third Party: Y Evaluation Reports FL11020_R5_AE_EVAL2.pdf Created by Independent Third Party: Y

[Back](#)

[Next](#)

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 public records request, you must email the request to [floridabuilding.org/pr/pr_app_dtl.aspx?param=wGEVXQwtDqu3k5JzSanEoOuIu84E06mlzVy5uhyIErWy%2bye6sjknqA%3d%3d](#) instead of sending it to this entity. Instead, contact the office by phone or by traditional mail. If you have any questions, please contact the office at (904) 487-1824.

Section 455.275(1), Florida Statutes, effective October 1, 2012, licensees licensed under Chapter 455, F.S. must provide their email address if they have one. The emails provided may be used for official communication with the licensee. However email addresses are not to be used for personal communication. If you are a licensee under Chapter 455, F.S., please click [here](#).

Product Approval Accepts:





August 29, 2023

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

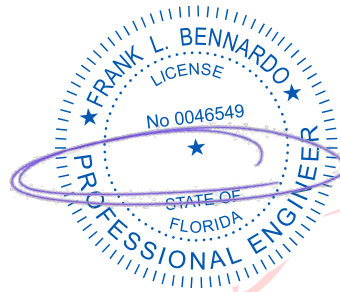
Regarding: Elite Aluminum Corporation
Elite 3000 Horizontal Sliding Window Large/Small Missile Impact
Resistance – FL #11020.1 – EX # 23-59966
Elite 3000 Horizontal Sliding Window Non-Impact Resistance – FL
#11020.2 – EX # 23-59967

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'

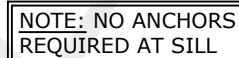
Frank Bennardo, P.E.
ENGINEERING EXPRESS®
#PE0046549 | Cert. Auth. 9885

FL



FL

+ 60 PSF
- 65 PSF



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

**EXENGINEERING
EXPRESS®**

POSTAL ADDRESS:
401 W. ATLANTIC AVE R10 BOX 2195
DELRAY BEACH, FL 33444
ENGINEERINGEXPRESS.COM

Elite Aluminum Corporation
4650 | Vons Technology Parkway

4650 Lyons Technology Parkway
Coconut Creek, FL 33073

Elite 3000 XX Horizontal Sliding Window
Large/Small Missile Impact Resistance

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

[illegible]

23-59966

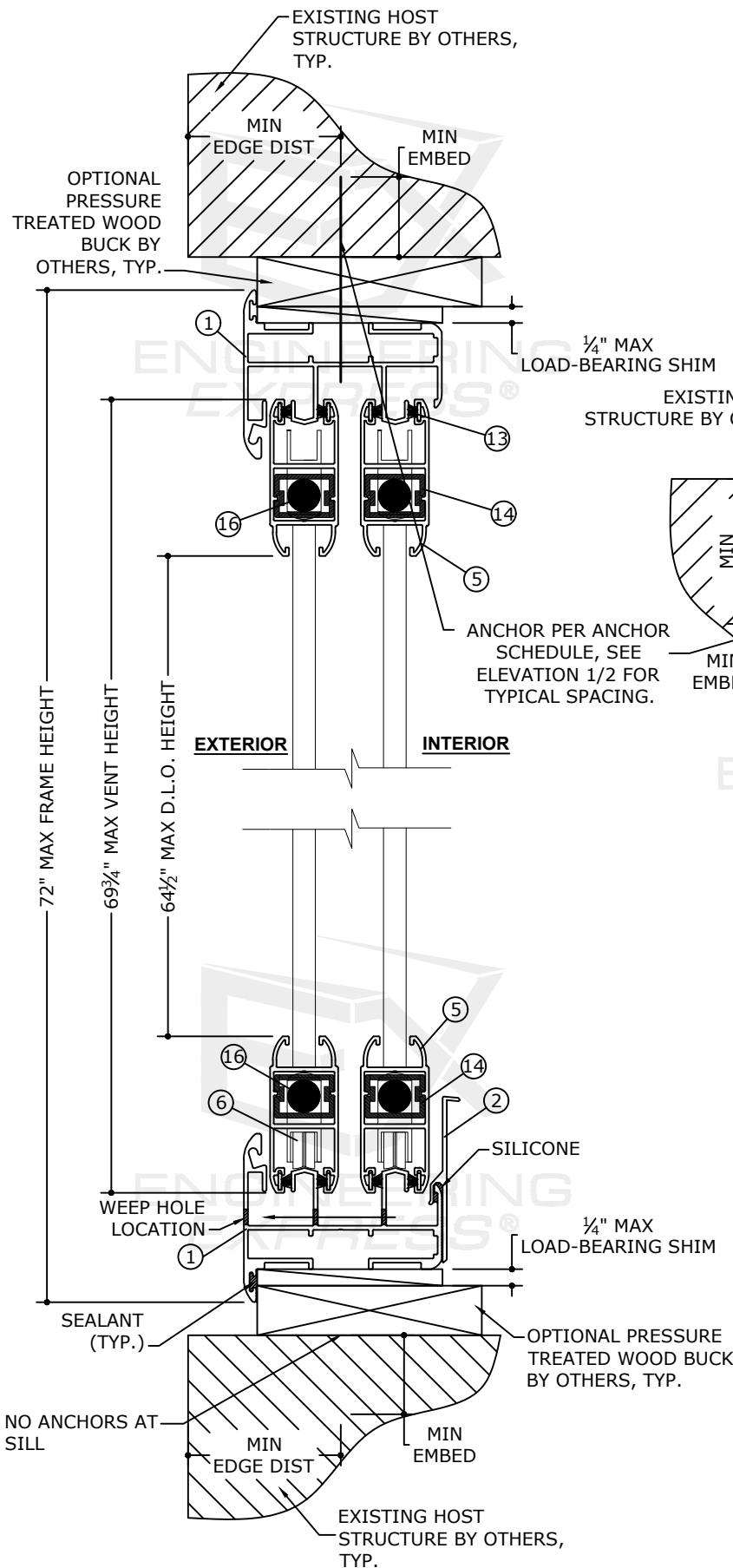
SCALE: NTS UNLESS NOTED

c:\users\milton\engineering express\production - documents\projects\23-59966 multiple products 2023 fbc update fl 11020\work\2023 fbc update fl 11020\1 - doc.dwg 8/29/2023 11:12 AM MILTON

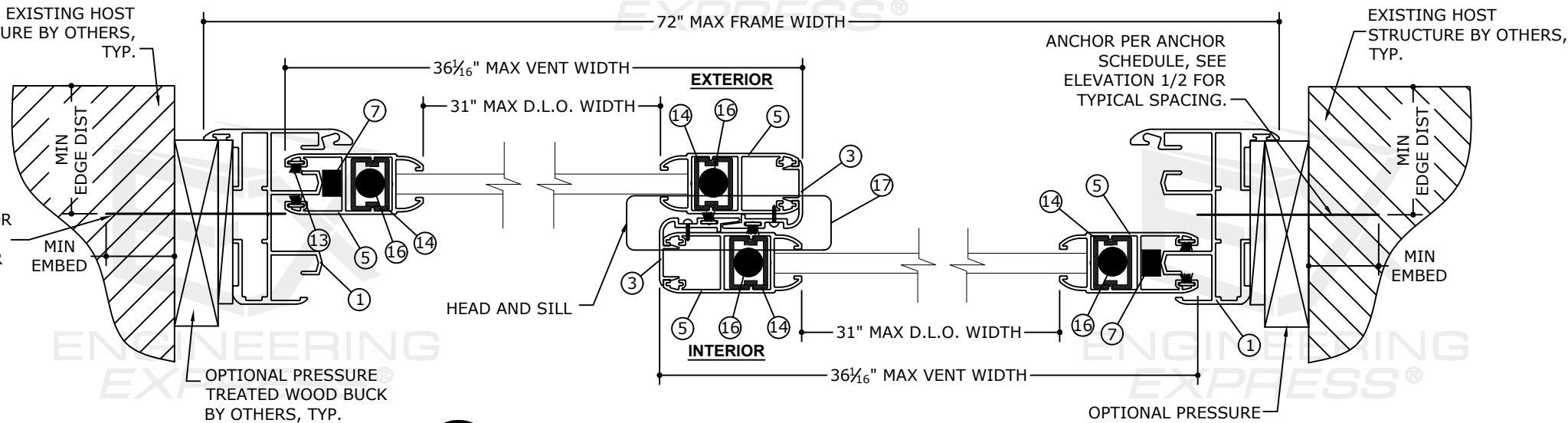
FRANK BENNARDO, P.E.
PE# 0046549 CA# 9885

AUGUST 29, 2023

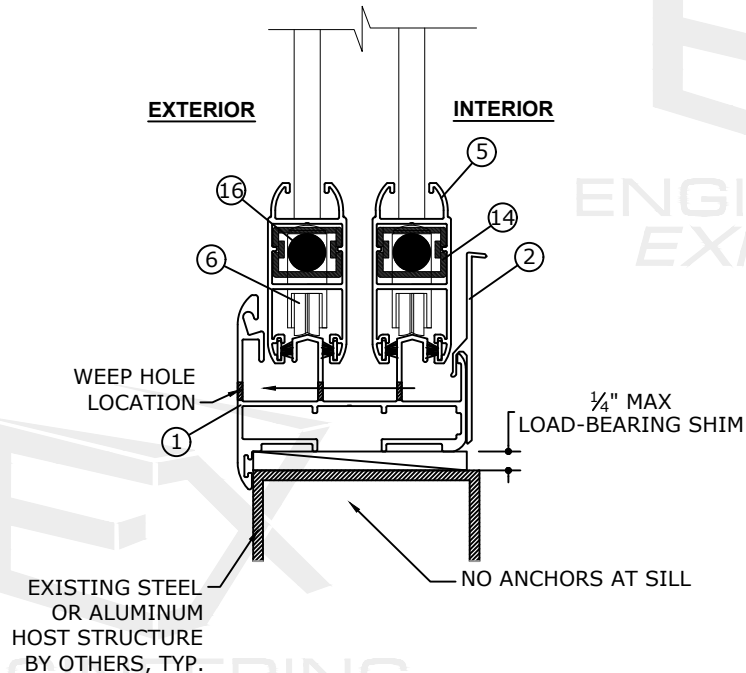
FL



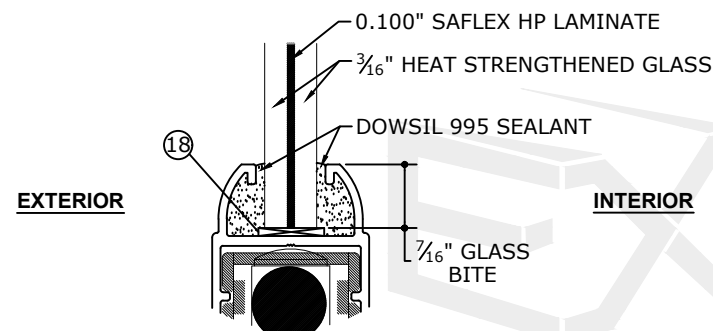
1
2
TYPICAL VERTICAL SECTION
N.T.S.
VERT SECT



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



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



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

FL 11020.1

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POSTAL ADDRESS:
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DELRAY BEACH, FL 33444
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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 8TH ED. (2023) | FLORIDA STATEWIDE APPROVAL

REMARKS	DRWN	CHKD	DATE
PREV. SUBMITTAL (20-20086)	JEM	AJP	01/18/21
2023 FBC UPDATE	MRT	RWN	08/21/23

23-59966

SCALE: NTS UNLESS NOTED

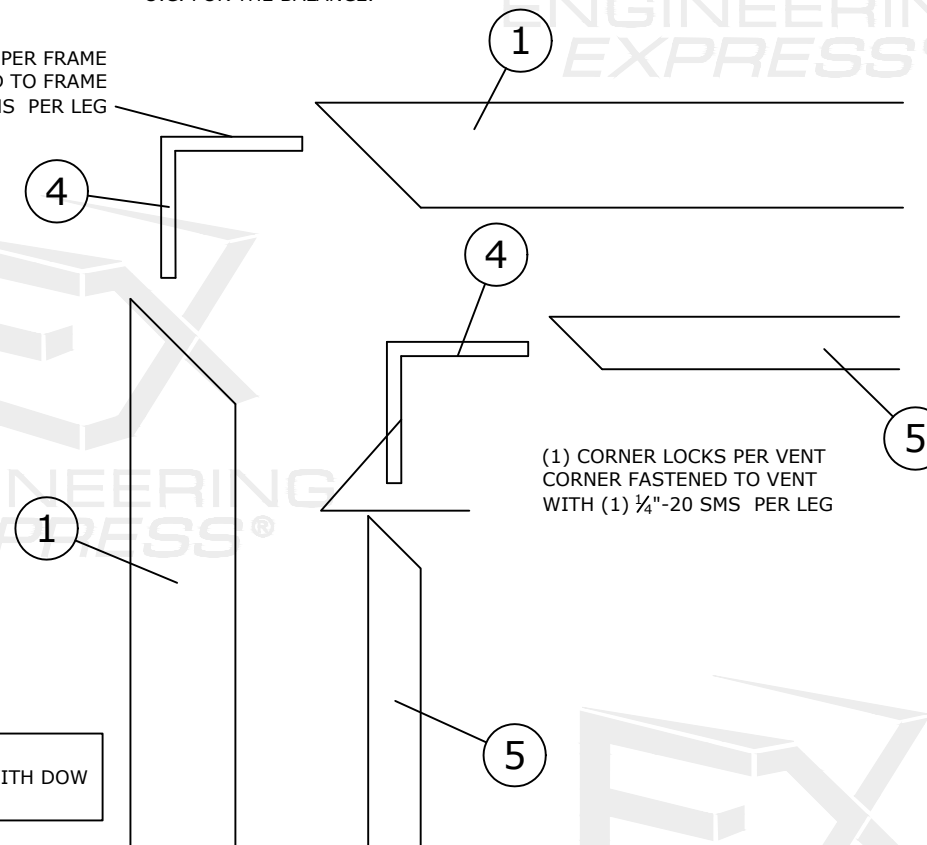
ANCHOR NOTES:

1. SEE EXTERIOR ELEVATION 1/2 FOR ANCHOR LOCATIONS AND/OR SPACING.
2. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.
3. PROVIDE $\frac{5}{8}$ " MIN. EDGE DISTANCE TO ALUMINUM SUBSTRATE AND $\frac{15}{16}$ " MIN. EDGE DISTANCE TO STEEL SUBSTRATE.
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.



	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			

(1) CORNER LOCKS PER VENT
CORNER FASTENED TO VENT
WITH (1) 1/4"-20 SMS PER LEG



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

ENGINEERING EXPRESS® (EX) PRODUCT EVALUATION REPORT

August 29, 2023

Application Number: FL 11020.1
EX Project Number: 23-59966

Product Manufacturer: Elite Aluminum Corporation
Manufacturer Address: 4650 Lyons Technology Parkway
Coconut Creek, FL 33073

Product Name & Description: Elite 3000 Horizontal Sliding Window
Large/Small Missile 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 # 23-59966 titled "Elite 3000 Horizontal Sliding Window Large/Small Missile 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-04-1916	TAS 201	Large Missile Impact Resistance	Ivonne Ghia, P.E.
Hurricane Engineering & Testing, Inc. (HETI)	#HETI-04-1405	TAS 202	Uniform Static Structural Performance	Ivonne Ghia, P.E.
Hurricane Engineering & Testing, Inc. (HETI)	#HETI-04-1916	TAS 203	Cyclic Loading Performance	Ivonne Ghia, P.E.

Elite Aluminum Corporation – Elite 3000 Horizontal Sliding Window, Large/Small Missile 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 Missile Impact Resistance has been demonstrated as evidenced in previously listed test reports, and is 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:

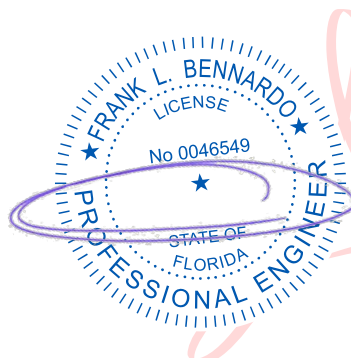
Use of each product shall be in strict accordance with its respective Performance Evaluation document (i.e. engineering document) as noted herein.

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



Digitally signed
by Frank
Bennardo
Date: 2023.08.29
15:21:37 -04'00'