



PRI Construction Materials Technologies LLC

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Laboratory Test Report

Report for: Elicc Group
13475 Danielson Str Ste 250
Poway, CA 92064

Product Type: Aluminum Louver System

Product Series: Elicc LV-550

Project No.: 2825T0003

Date(s) Tested: February 18th – 24th, 2026

Test Methods: TAS 201, 202, & 203

Miami-Dade Notification: PRI2620637

Test Method Description	Summary of Results
TAS 202-94 (Design Test Pressure):	±100 psf
TAS 201-94 (Enhanced Large Missile Impact):	Pass No Penetration
TAS 203-94 (Test Pressure):	±100 psf

Test Methods

Testing was completed as described in Testing Application Standard (TAS) 202-94 Criteria for Testing Impact & Non-Impact Resistant Building Envelope Components Using Uniform Static Air Pressure, Testing Application Standard (TAS) 201-94 Impact Test Procedures, and Testing Application Standard (TAS) 203-94 Criteria for Testing Products Subject to Cyclic Wind Pressure Loading. Test methods assigned or reference include, ASTM E330 Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Difference, ASTM E1996 Standard Specification for Performance of Exterior, Windows, Curtain Walls, Doors, and Impact Protective Systems Impacted by Windborne Debris in Hurricanes, ASTM E1886 Standard Test Method for Performance of Exterior Windows, Curtain Walls, Doors, and Impact Protective Systems Impacted by Missile(s) and Exposed to Cyclic Pressure Differentials, and Department of Regulatory and Economic Resources Product Control Section: Checklist #0240 For the Approval of Louvers (Includes Gabel End Louvers.)

Report Date: 03/24/2026	Test Record Retention Date: 03/24/2036
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I. Product Manufacturer & Location

Elicc Group
13475 Danielson Str Ste 250
Poway, CA 92064

II. Accredited Testing Laboratory

PRI-Construction Materials Technologies, LLC
6412 Badger Drive
Tampa, FL 33610

II.1. Testing Location:

Testing was conducted at PRI-CMT located in Tampa, FL. Verification of testing instrumentation was performed by either an ISO accredited calibration laboratory or by a PRI-CMT representative in compliance with PRI-CMT In-House quality control program governed by ISO/IEC 17025-17.

III. Product Type

Aluminum Louver System with Horizontal Blades

IV. Product Series/Model

Elicc LV-550

V. Test Specimen Details

V.1. Sizes – All Specimens

V.1.1. Overall Unit Size: 51-1/4" wide x 119-3/4" tall (42.6ft²)
V.1.2. Core Unit Size: 48" wide by 114-13/16" (38.3ft²)
V.1.3. Horizontal Blade Span: 47-1/4"

V.2. Specimen Construction – All Specimens

Member		Description
Frame	Head	6063-T5 Extruded aluminum
	Sill	6063-T5 Extruded aluminum
	Jamb	6063-T5 Extruded aluminum
	Mounting Angle	See Installation
	Jamb Blank-Off	None
	Joinery	Head/Sill/Jambs were straight cut and mechanically secured thru the head and sill and into the jambs internal screw bosses with two (2) ST4.8x19 screws per end. Silicone was applied over all fastener heads.

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Member		Description
Louver	Horizontal Blades	6063-T5 extruded aluminum. Fifty-Nine (59) blades spaced 1-15/16" O.C.
	Interior Blade Brace	None
	Blade Brace Strip	None
	Rear Mesh	None
	Sill Baffle	None
	Joinery	The horizontal blades were straight cut and mechanically secured thru the corresponding jamb frame member and into the blades' screw bosses with two (2) ST4.2x32 Pan Head SDS per end. Silicone was applied over all fastener heads.

V.3. Installation – All Specimens

The test specimens were installed into a nominal 2"x12" southern yellow pine wooden test bucks. The rough opening maintained a clearance of 3/16" around the perimeter of test specimens.

Frame Member	Dimensional Location on Member	Anchor Description	Quantity
Jambs	Thru the jambs aluminum mounting angles, 4" from each end, and spaced approximately 9-1/2" O.C. thereafter.	#10-13 x 1-1/2" Pancake Head Concealor Screw	13 per Jamb (26 total)

VI. Equipment Utilized:

- VI.1. Computer controlled reversible blower with pressure transducers
- VI.2. Distance transducers
- VI.3. Large Missile Impact Cannon

Detailed drawings showing wall thickness of all members, corner construction and hardware application are on file and have been compared to the sample submitted. Electronic documentation will be retained at the laboratory for a period of ten years. Manufacturer's drawings, bill of materials, and sketches are contained in Appendix A.

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VII. Test Results: Conditions at the beginning of testing were 23°C (73°F) with 50% Rh.

Table 1: Results TAS 202 - Specimen 1

Test Specification:	Test Pressure	Allowable		Recorded Measurement ³	Result ⁴
½ Uniform Load Structural TAS 202 ½ Test Load ^{1,2}	±75 psf	Deflection			
		Report Only	Positive: 0.08"	Pass	
			Negative: 0.09"		
Uniform Load Deflection TAS 202 Design Pressure ^{1,2}	±100 psf	Deflection			
		Report	Positive: 0.29"	Pass	
			Negative: 0.29"		
		Permanent Set			
		90% Recovery	≤ 0.03"	Positive: 0.01"	Pass
			≤ 0.03"	Negative: 0.01"	
Uniform Load Structural TAS 202 Full Test Load ^{1,2}	±150 psf	Deflection			
		Report Only	Positive: 0.44"	Pass	
			Negative: 0.51"		
		Permanent Set			
		90% Recovery	≤ 0.04"	Positive: 0.03"	Pass
			≤ 0.05"	Negative: 0.03"	

Notes:

1. Loads were held for 30 seconds. Positive loads applied first.
2. Tape and polyethylene film were utilized to seal the specimen for excessive air leakage, and in the PRI-CMT witness's opinion did not influence the test results.
3. Deflection and permanent set were captured on the center horizontal blade, the unsupported span of the blades measured 47-1/4".
4. Upon completion of testing the specimen did not have indication of deterioration or incipient failure, such as cracking, fastener loosening, or loss of adhesive bond.

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Table 2: Results TAS 201 / ASTM E1886 E1996 Specimens 1-3

Impact ¹	Missile Weight	Missile Length	Missile Velocity	Location of Impact ²	Observation	Result ³
Assembly 1						
1	9.24lbs	91"	50.6 fps	Center Blade – Midspan	2-1/4" dent to blades	Pass
2	9.24lbs	91"	50.4 fps	Lower Left Corner	2-3/8" dent to blades	Pass
Assembly 2						
1	9.24lbs	91"	49.1 fps	Upper Right Corner	2" dent to blades	Pass
2	9.24lbs	91"	50.0 fps	Center Blade – Midspan	1-1/4" dent to blades	Pass
Assembly 3						
1	9.24lbs	91"	50.0 fps	Lower Left Corner	1-3/8" dent to blades	Pass
2	9.24lbs	91"	50.8 fps	Center Blade – Midspan	1-1/4" dent to blades	Pass

Notes:

1. The end of the cannon barrel was located 5.2 m (17') from the exterior surface of the test specimen.
2. Missile impact was within 5° of horizontal. See Appendix A for impact locations.
3. Upon completion of testing the specimens met the passing requirements outlined in Miami-Dade Checklist #0240. (No opening formed through which a 3in diameter sphere can pass.)

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Table 3: Results TAS 203 / ASTM E1886 Specimens 1-3

Direction	Pressure Differential ¹		Number of Cycles Completed	Specimen	Max Deflection ²	Permanent Set ²	Result ³
	PSF	Pa			(inches)	(inches)	
Positive	20 to 50	960 to 2400	3500	1	0.04	0.01	Pass
				2	0.08	0.01	
				3	0.09	0.01	
	0 to 60	0 to 2880	300	1	0.17	0.02	Pass
				2	0.16	0.02	
				3	0.17	0.01	
	50 to 80	2400 to 3830	600	1	0.23	0.02	Pass
				2	0.22	0.02	
				3	0.21	0.02	
	30 to 100	870 to 2880	100	1	0.31	0.02	Pass
				2	0.29	0.02	
				3	0.29	0.02	
	0 to 130	0 to 6230	1	1	0.37	0.03	Pass
				2	0.34	0.03	
				3	0.32	0.03	
Negative	-30 to -100	-870 to -2880	50	1	0.30	0.02	Pass
				2	0.28	0.01	
				3	0.29	0.01	
	-50 to -80	-2400 to -3830	1050	1	0.22	0.02	Pass
				2	0.24	0.02	
				3	0.25	0.01	
	0 to -60	0 to -2880	50	1	0.19	0.02	Pass
				2	0.17	0.01	
				3	0.18	0.01	
	-20 to -50	-960 to -2400	3350	1	0.09	0.03	Pass
				2	0.09	0.01	
				3	0.10	0.01	
	0 to -130	0 to -6230	1	1	0.35	0.03	Pass
				2	0.33	0.02	
				3	0.34	0.02	

Notes:

1. Tape and polyethylene film were utilized to seal the specimen for excessive air leakage, and in the PRI-CMT witness's opinion did not influence the test results.
2. Deflection and permanent set were captured on the center horizontal blade, the unsupported span of the blades measured 47-1/4".
3. Upon completion of testing the specimen met the requirements outlined in Miami-Dade checklist #0240. (No opening formed through which a 3in diameter sphere can pass.)

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Statement of Attestation:

Testing was conducted in accordance with the methods designated in Testing Application Standard (TAS) 201-94 Impact Test Procedures, Testing Application Standard (TAS) 202-94 Impact & Nonimpact Resistance Building Envelope Components using Uniform Static Air Pressure, and Testing Application Standard (TAS) 203-94 Criterial for Testing Products Subject to Cyclic Wind Pressure Loading. Upon completion of testing, the tested specimens met the passing requirements specified within Miami-Dade County Department of Regulatory and Economic Resources Product Control Section Checklist #0240 For the Approval of Louvers (Including Gabel End Louvers). The laboratory test results presented in this report are representative of the specimen supplied. This report does not constitute certification of this product which may only be granted by the certification program administrator.

Signed: _____



Timothy Efaw
Manager

Date: _____

March 24th, 2026

Signed: _____



Zachary Priest - PE
Director

Date: _____

03/28/2026

Report Issue History:

Issue #	Date	Pages	Revision Description (if applicable)
Original	03/24/2026	16	NA

Appendix Follows...

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Manufacture Drawings

Shore Club
1901 Collins Ave.
Miami Beach, FL 33139

Louver test drawings for
Florida Product Approval
Large Missile Impact Resistant (LMI)
Issue Date: Mar. 20, 2026

PRI Construction Materials Technologies
Specimens sample completed with these details.
Drawn: 3/1/24, 3/1/24, 3/1/24, 3/1/24, 3/1/24
Reviewed: 3/1/24, 3/1/24, 3/1/24, 3/1/24, 3/1/24
Report No. 2825T0003

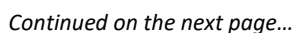
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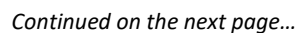
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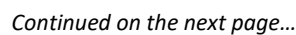
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Photographs

Specimen 1 – After Test



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Specimen 2 – After Test



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Specimen 3 – After Test



End of Report

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