



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)  
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION  
11805 SW 26 Street, Room 208  
Miami, Florida 33175-2474  
T (786) 315-2590 F (786) 315-2599

[www.miamidade.gov/economy](http://www.miamidade.gov/economy)

## NOTICE OF ACCEPTANCE (NOA)

**Sprung Instant Structures, Inc.**  
5711 West Damon Way  
West Jordan, UT 84081

### SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER- Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

### DESCRIPTION: Seaman and Herculite Architectural Fabric Membranes

**APPROVAL DOCUMENT:** Drawing No. P23, titled " Hurricane Test Panel " dated September 01, 2023, revised on October 05, 2023, sheets 31.0 through 31.3, prepared by Dany Tremblay, P.E., signed and sealed by Dany Tremblay, P.E., on February 23, 2024, bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and the expiration date by the Miami-Dade County Product Control Section.

### MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

**LABELING:** Each structure shall bear a permanent label with the manufacturer's name or logo, city, state and the following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises & renews** NOA #21-0405.04 and consists of this page 1, evidence submitted pages E-1, E-2, E-3 & E-4 as well as approval document mentioned above.

The submitted documentation was reviewed by **Helmy A. Makar, P.E., M.S.**



*Helmy A. Makar*  
03/07/2024

NOA No. 23-1024.03  
Expiration Date: 03/07/2029  
Approval Date: 03/07/2024

**Sprung Instant Structures, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 03-0407.04**

**A. DRAWINGS**

1. Drawings No. P05064.0, P05064.1, & P05064.2, titled " Hurricane Test ", dated March 31, 2005, last revision #3 dated February 27, 2006, three sheets, prepared by Steven B. Brown, P.E., signed and sealed by Steven B. Brown, P.E.

**B. TESTS**

1. Test Report No. 0323-1208-03, dated February 18, 2004, prepared by Hurricane Test Laboratory, Inc., on Large Missile Impact Test, TAS 201, Cyclic Wind Pressure Test, TAS 203, and Static Wind Pressure Test, TAS 202, signed and sealed by Vinu J. Abraham, P.E.

**C. CALCULATIONS**

1. Calculations titled "Dade County Hurricane Testing Membrane Calculations" prepared by Steven B. Brown & Associate, dated May 24, 2005, 2 sheets, signed and sealed by Steven B. Brown, P.E.

**D. QUALITY ASSURANCE**

1. By Miami-Dade County Building Code Compliance Office.

**E. MATERIAL CERTIFICATIONS**

1. See material Specifications on the approved drawings.

**2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 12-0322.03**

**A. DRAWINGS:**


1. Drawing No. P11-147, titled " Hurricane Test Panel " dated June 29, 2011, sheets 147.0 through 147.3, prepared by Steven B. Brown, P.E., signed and sealed by Steven B. Brown, P.E., on April 12, 2013.

**B. TESTS:**

1. Test Report No. 0323-0604-11, dated October 24, 2011, prepared by Hurricane Test Laboratory, Inc., on Large Missile Impact Test, TAS 201, Cyclic Wind Pressure Test, TAS 203, and Static Wind Pressure Test, TAS 202, signed and sealed by Vinu J. Abraham, P.E.

**C. CALCULATIONS:**

1. Calculations titled "Dade County Hurricane Testing Membrane Calculations" prepared by Steven B. Brown & Associate, dated January 12, 2012, 4 sheets, signed and sealed by Steven B. Brown, P.E.

  
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Helmy A. Makar, P.E., M.S.  
Product Control Section Supervisor  
NOA No. 23-1024.03  
Expiration Date: 03/07/2029  
Approval Date: 03/07/2024



**Sprung Instant Structures, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**D. QUALITY ASSURANCE**

1. *By Miami-Dade County Department of Regulatory and Economic Resources.*

**E. MATERIAL CERTIFICATION:**

1. *None.*

**A. OTHERS**

1. *Letter from Steven B. Brown, Consulting Engineer, dated November 30, 2011, signed and sealed by Steven B. Brown, P.E., stating that this product in compliance with Florida Building Code, 2010 Edition.*

**3. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 17-1206.12**

**A. DRAWINGS:**

1. *Drawing No. P11-147, titled " Hurricane Test Panel " dated June 29, 2011, sheets 147.0 through 147.3, prepared by Steven B. Brown, P.E., signed and sealed by Steven B. Brown, P.E., on November 13, 2017.*

**B. TESTS:**

1. *None.*

**C. CALCULATIONS:**

1. *Calculations titled "Dade County Hurricane Testing Membrane Calculations" prepared by Steven B. Brown & Associate, dated November 30, 2017, 4 sheets, signed and sealed by Steven B. Brown, P.E.*

**D. QUALITY ASSURANCE**

1. *By Miami-Dade County Department of Regulatory and Economic Resources.*

**E. MATERIAL CERTIFICATION:**

1. *None.*

**F. OTHERS**

1. *Letter from Steven B. Brown, Consulting Engineer, dated November 13, 2017, signed and sealed by Steven B. Brown, P.E., stating that this product in compliance with Florida Building Code, 2017 Edition.*



**Helmy A. Makar, P.E., M.S.**  
**Product Control Section Supervisor**  
**NOA No. 23-1024.03**  
**Expiration Date: 03/07/2029**  
**Approval Date: 03/07/2024**

**Sprung Instant Structures, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**4. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 18-0424.01**

**A. DRAWINGS:**

1. *None.*

**B. TESTS:**

1. *None.*

**C. CALCULATIONS:**

1. *None.*

**D. QUALITY ASSURANCE**

1. *By Miami-Dade County Department of Regulatory and Economic Resources.*

**E. MATERIAL CERTIFICATION:**

1. *None.*

**F. OTHERS**

1. *Letter from Steven B. Brown, Consulting Engineer, dated November 13, 2017, signed and sealed by Steven B. Brown, P.E., stating that this product in compliance with Florida Building Code, 2017 Edition.*

**5. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 28-0405.04**

**A. DRAWINGS:**

1. *Drawing No. P11-147, titled " Hurricane Test Panel " dated June 29, 2011, revised on March 30, 2021, sheets 147.0 through 147.3, prepared by Steven B. Brown, P.E., signed and sealed by Steven B. Brown, P.E., on March 31, 2021.*

**B. TESTS:**

1. *None.*

**C. CALCULATIONS:**

1. *None.*

**D. QUALITY ASSURANCE**


1. *By Miami-Dade County Department of Regulatory and Economic Resources.*

**E. MATERIAL CERTIFICATION:**

1. *None.*

**F. OTHERS**

1. *Letter from Steven B. Brown, Consulting Engineer, dated 03/31/2021, signed and sealed by Steven B. Brown, P.E., stating that this product in compliance with Florida Building Code, 2020 Edition.*

  
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Helmy A. Makar, P.E., M.S.  
Product Control Section Supervisor  
NOA No. 23-1024.03  
Expiration Date: 03/07/2029  
Approval Date: 03/07/2024

**Sprung Instant Structures, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**6. NEW EVIDENCE SUBMITTED**

**A. DRAWINGS:**

1. *Drawing No. P23, titled " Hurricane Test Panel " dated September 01, 2023, revised on October 05, 2023, sheets 31.0 through 31.3, prepared by Dany Tremblay, P.E., signed and sealed by Dany Tremblay, P.E., on February 23, 2024.*

**B. TESTS:**

1. *Test Report No. N9064.01-450-18 R0, dated October 18, 2023, prepared by Intertek, on Large Missile Impact Test, TAS 201, Cyclic Wind Pressure Test, TAS 203, and Static Wind Pressure Test, TAS 202, signed and sealed by Tanya A. Dolby, P.E.*
2. *Tensile Fabric Force, report 8324 Architectural Fabric, by Seaman Corporation.*
3. *Test Report No. H4152.01-106-18 R1, dated 03/28/18, prepared by Intertek, on ASTM G155-05a, ASTM D638-03, ASTM D1929-12, ASTM D2843-10, ASTM D635-10, signed and sealed by Tanya A. Dolby, P.E.*

**C. CALCULATIONS:**

1. *Calculations titled "Membrane Design Calculations" prepared by Canyons Structural, dated February 02, 2023, 6 sheets, signed and sealed by Dany Tremblay, P.E., on February 02, 2023.*

**D. QUALITY ASSURANCE**


1. *By Miami-Dade County Department of Regulatory and Economic Resources.*

**E. MATERIAL CERTIFICATION:**

1. *None.*

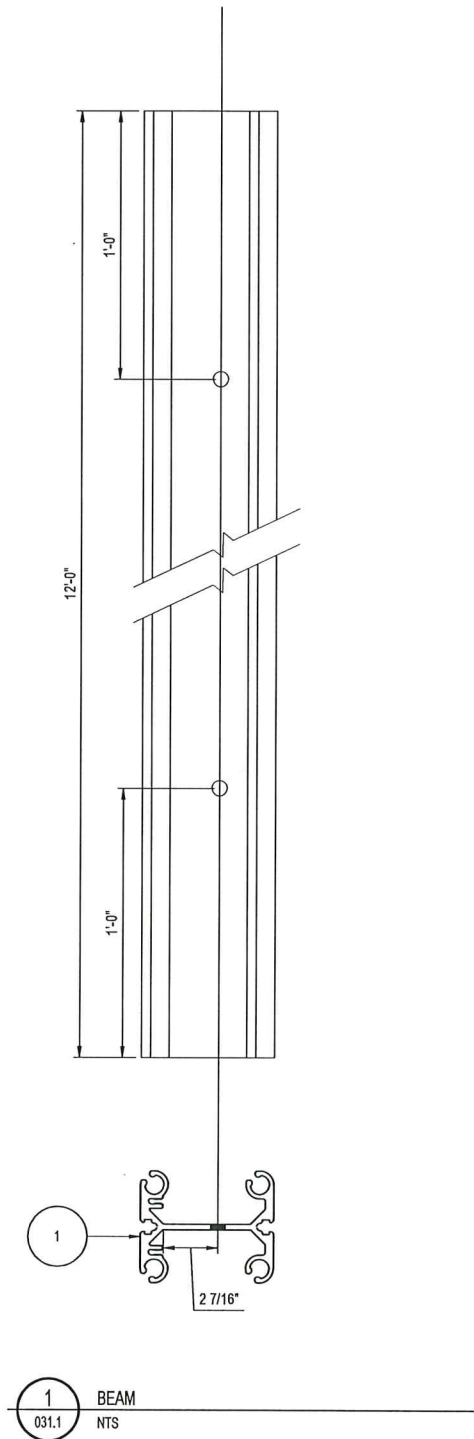
**F. OTHERS**

1. *Letter prepared by Canyons Structural, dated October 20, 2023, signed and sealed by Dany Tremblay, P.E., stating that this product in compliance with Florida Building Code, 2023 Edition.*

  
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Helmy A. Makar, P.E., M.S.  
Product Control Section Supervisor  
NOA No. 23-1024.03  
Expiration Date: 03/07/2029  
Approval Date: 03/07/2024

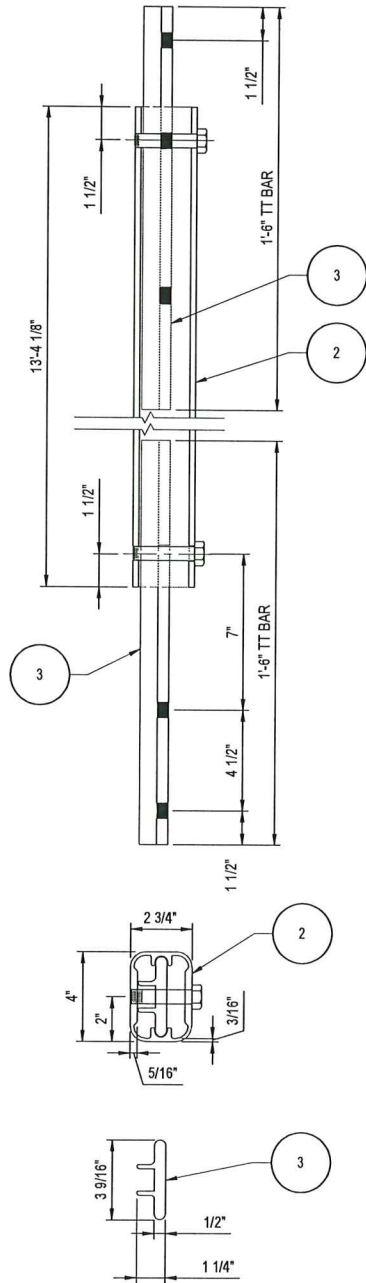
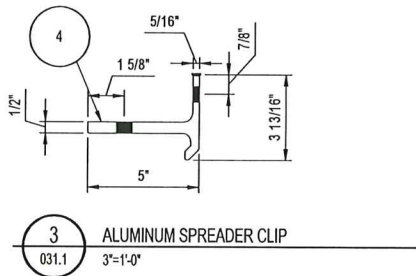




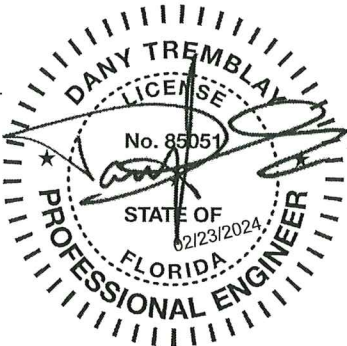


BILL OF MATERIALS (B.O.M.)			
ITEM	QTY	DESCRIPTION	SPECIFICATIONS
1	2	5"x6" ALUM. I BEAM	6351-T6
2	2	ALUMINUM SPREADER	6351-T6
3	4	18" ALUMINUM TT-BAR	6351-T6
4	4	ALUMINUM SPREADER CLIP	6351-T6
5	4	ALUM. FL 3/16"x2"x9'-6 3/4"	6061-T5

NOTE: FL = FLAT BAR



PRODUCT REVISED  
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Expiration Date 03/07/2029  
By *Hely A. Miller*  
Miami Date Product Control



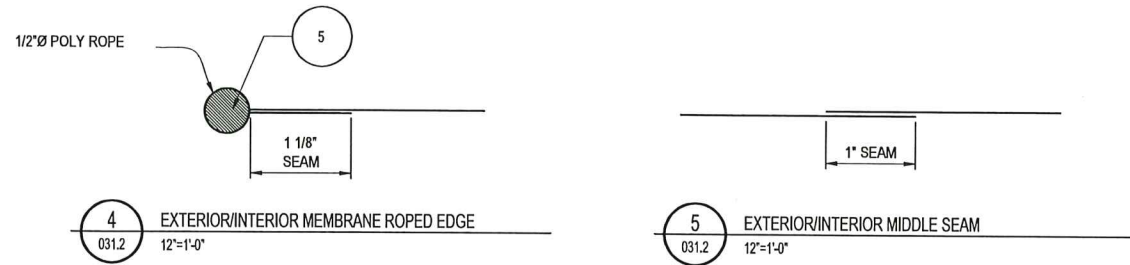
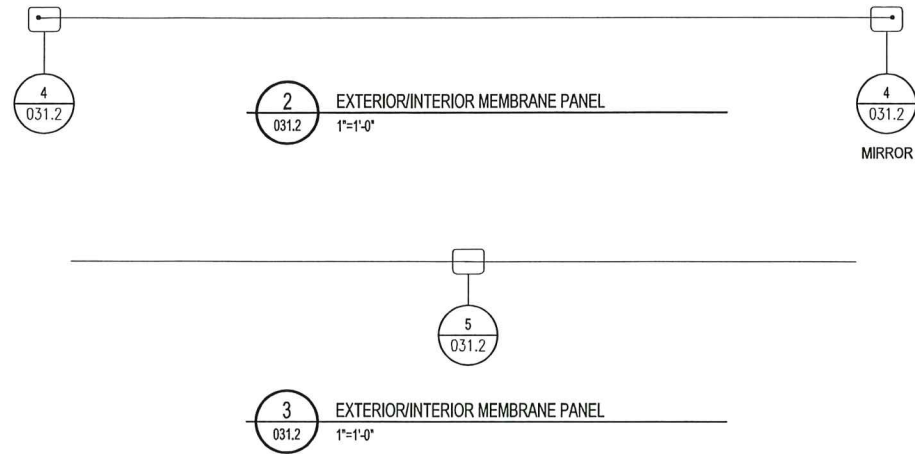
intertek Total Quality. Assured.	Report #:	N9064.01-450-18
	Date:	10/09/23
	Verified by:	<i>[Signature]</i>

**SPRUNG STRUCTURES**  
**5"x6" BEAM PANEL**  
**15' x 12'**  
**HURRICANE TEST PANEL**

REV.	MM/DD/YY	BY	DESCRIPTION
2	10/09/23	MB	FOR NOA SUBMISSION
3			
4			
5			
6			
7			
8			
9			

FABRICATION & B.O.M.	
DATE:	DRAWN BY:
09/01/2023	M. BELL
P23-031.1	
SPRUNG WO # 25967	





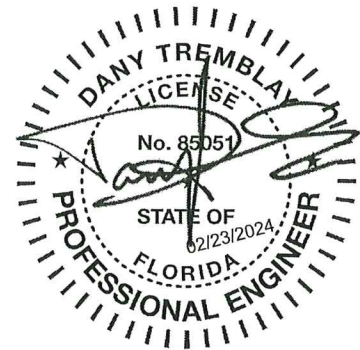
SPECIFICATIONS FOR MEMBRANE USED IN TEST

ITEM	QTY	DESCRIPTION	SPECIFICATIONS
1	1	INTERIOR MEMBRANE	HERCULITE SPECS
2	1	INTERIOR MEMBRANE	HERCULITE SPECS
3	1	EXTERIOR MEMBRANE	SEAMAN SPECS
4	1	EXTERIOR MEMBRANE	SEAMAN SPECS
5	4	1/2"Ø POLY ROPE	NONE

HERCULITE EXCEL 14 WHITE OR BLACK LINER MEMBRANE		
WEIGHT (Oz./Sq. Yd)	ASTM D3776	14 oz (±5%)
FLAME RESISTANCE After Flame - Char Length -	ASTM D6413  NFPA 701 SMALL & LARGE  ASTM E-84 SMALL & LARGE	0.4 sec. 3.5" PASS  PASS CLASS A
Flame Spread Rating Smoke Development Class		20 295
ADHESION (Lbs./2 In.)	ASTM D4431	12 lbs/in
GRAB TENSILE 4" (Lbs./In.)	ASTM D5034	230/215 lbs/in
STRIP TENSILE 1" (Lbs./In.)	FED-STD-191A	170/140 lbs/in
TONGUE TEAR (Lbs.)	ASTM D2261	120/122 lbs/in
HYDROSTATIC BURST (PSI)	ASTM D751/A	380/380
COLD CRACK	FED-STD-191A	-40°F
RATE OF BURN (CLASSIFICATION)	ASTM D 635	RESULT/REQUIREMENT NO SUSTAINED BURN PASS (CLASS CC1)
SELF-IGNITION (DEGREES F)	ASTM D 1929	PASS 932°F (500°C)
SMOKE DENSITY RATING (%)	ASTM D 2843	PASS 9.1

EXTERIOR - SEAMAN SHELTER-RITE HIGH PERFORMANCE 8324 ARCHITECTURAL MEMBRANE		
Base Fabric Type		Polyester
Base Fabric Weight (nominal)		4.3 oz/yd2
Finished Coated Weight	ASTM D751	24 oz/yd2 ±2 oz/yd2
Tongue Tear	ASTM D751	8"x10" sample @ 12 in/min. 140/130 lbf
Trapezoid Tear	ASTM D751	80/65 lbf
Grab Tensile	ASTM D751	400/350 lbf
Strip Tensile	ASTM D751	300/240 lbf/in
Adhesion Dielectric Weld	ASTM D751	10 lbf/in
Hydrostatic Resistance	ASTM D751	500 psi
Dead Load	ASTM D751	1.5 in seam, 4 hr, 1 in strip 120 lbf @ room temp. 60 lbf @ 160° F
Low Temperature	ASTM D2136 LTC	Pass -40° F 1/8" mandrel, 4 hr LTAPass -67° F
Flame Resistance	Meets California fire marshal requirements, UL214, NFPA 701, and ASTM D64133 - FR Pass 2 second flameout ASTM E84 - flame spread index <25, smoke development index <450, ULC_S102, ULC_S109	
RATE OF BURN (CLASSIFICATION)	ASTM D 635	RESULT/REQUIREMENT CC1
SELF IGNITION (DEGREES F)	ASTM D 1929	680° F
SMOKE DENSITY RATING (%)	ASTM D 2843	63.6

PRODUCT REVISED  
as complying with the Florida  
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By *H. G. A. Miller*  
Miami Dade Product Control



intertek	Report #:	N9064.01-450-18
Total Quality Assured.	Date:	10/09/23
	Verified by:	<i>M. Bell</i>

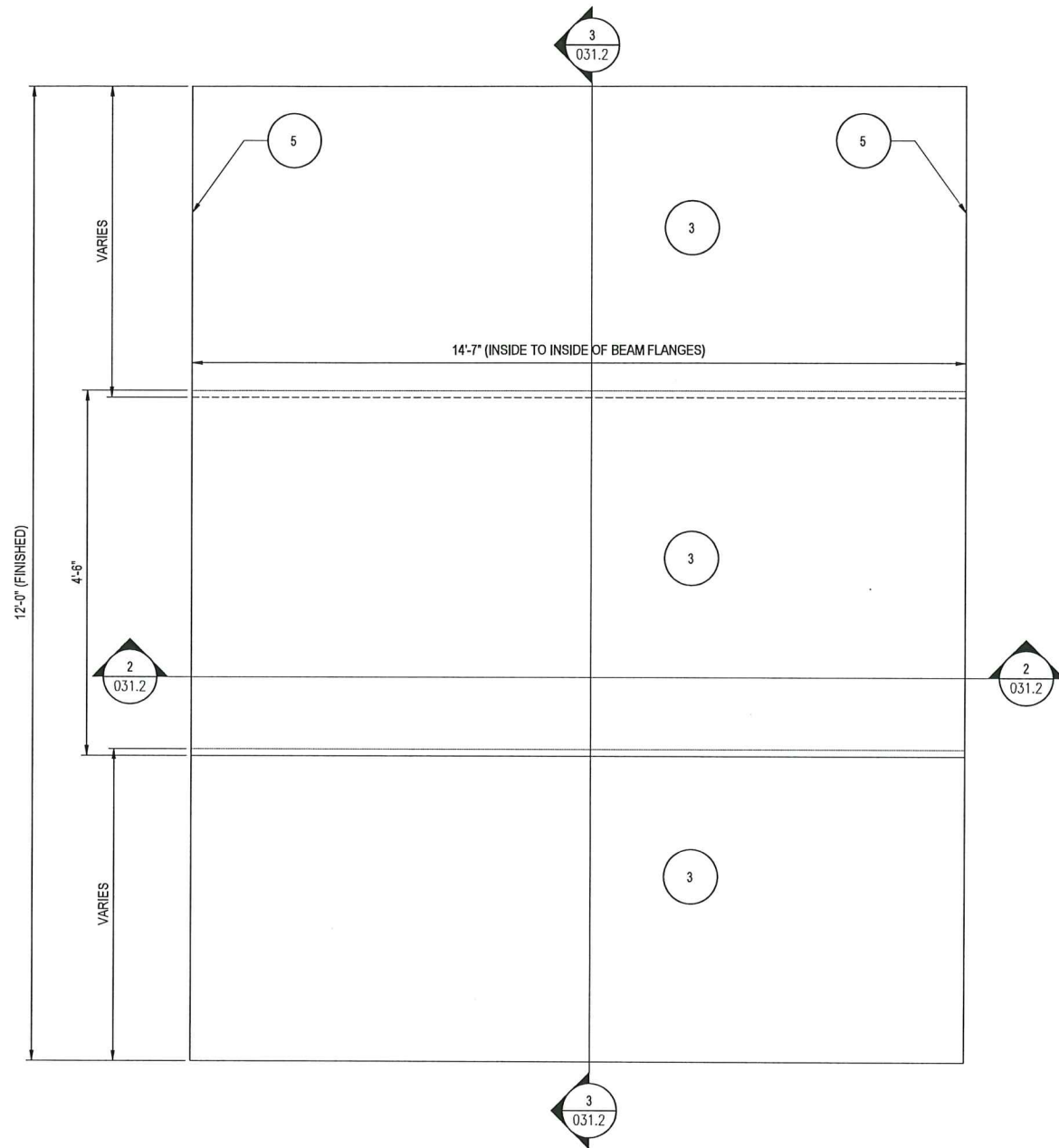
**SPRUNG STRUCTURES**  
**5"x6" BEAM PANEL**  
**15' x 12'**  
**HURRICANE TEST PANEL**

REV.	MM/DD/YY	BY	DESCRIPTION
2	10/09/23	MB	FOR NOA SUBMISSION
3			
4			
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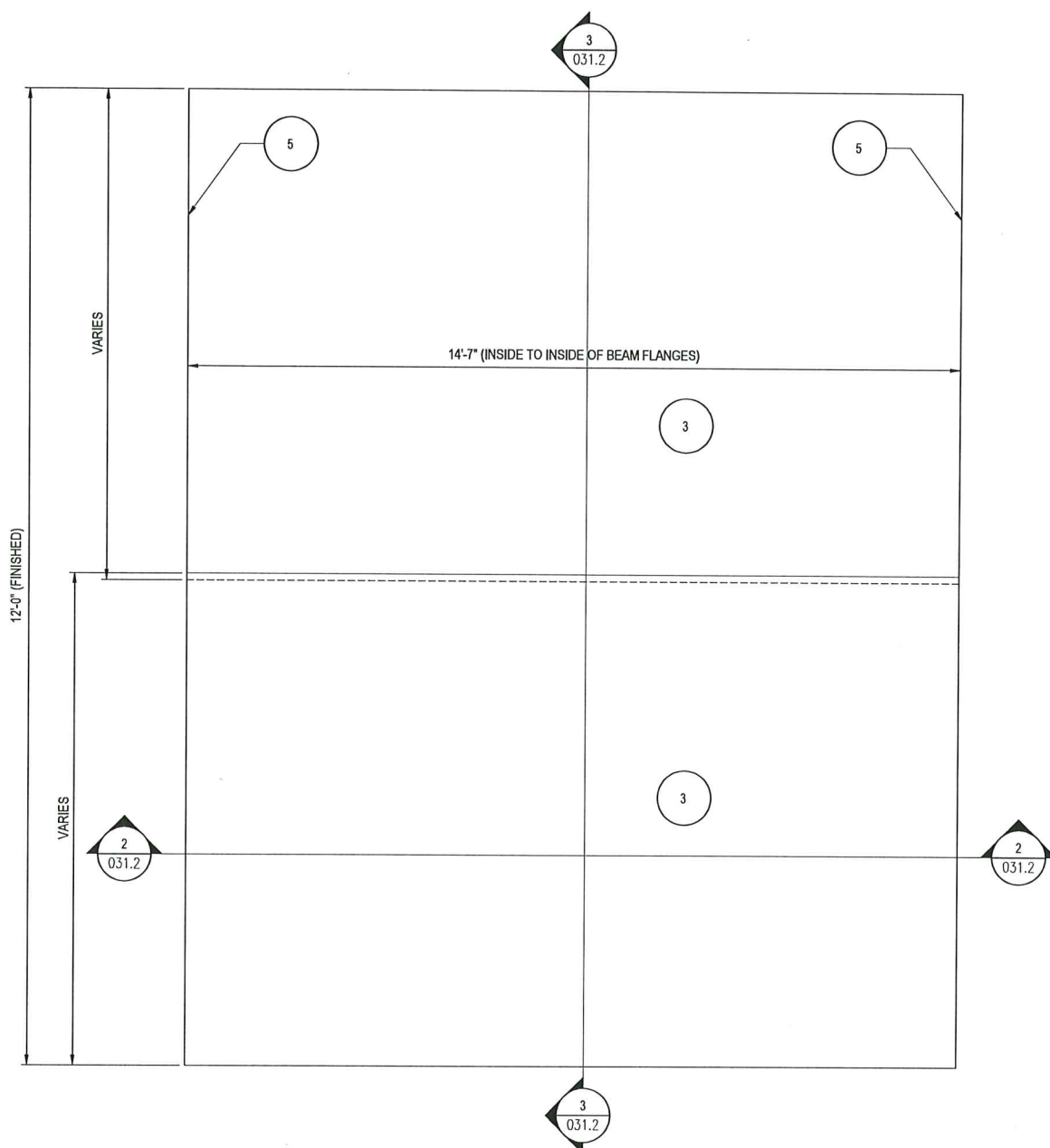
**MEMBRANE  
DETAILS**

DATE:	09/01/2023	DRAWN BY:	M. BELL
P23-031.2			
SPRUNG WO #_25967			



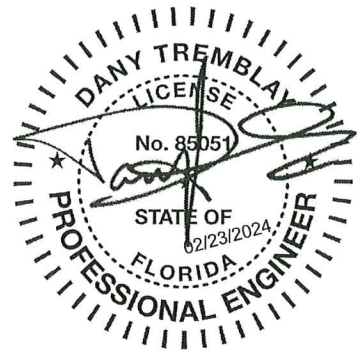


1 EXTERIOR/INTERIOR MEMBRANE PANEL  
1'-1'-0" SPECIMEN #1 & #3



1 EXTERIOR/INTERIOR MEMBRANE PANEL  
1'-1'-0" SPECIMEN #2

PRODUCT REVISED  
as complying with the Florida  
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Expiration Date 03/07/2029  
By He G. A. M. M.  
Miami Dade Product Control



intertek  
Total Quality Assured.  
Report #: N9064.01-450-18  
Date: 10/09/23  
Verified by: M. Bell



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SALT LAKE CITY, UTAH  
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info@canyonsstructural.com  
www.canyonsstructural.com

# SPRUNG STRUCTURES 5"x6" BEAM PANEL 15' x 12' HURRICANE TEST PANEL

REV.	MM/DD/YY	BY	DESCRIPTION
2	10/09/23	MB	FOR NOA SUBMISSION
3			
4			
5			
6			
7			
8			
9			

MEMBRANE  
DETAILS  
DATE: 09/01/2023 DRAWN BY: M. BELL  
P23-031.3  
SPRUNG WO #\_25967