



MEGALOC™

24 GA MEGALOC™ 18" ROOF PANEL OVER OPEN FRAMING
FLORIDA PRODUCT APPROVAL NO. 11650.1 R3

Product Evaluation Report
GULF COAST SUPPLY & MANUFACTURING, LLC.

24 Ga. MegaLoc™ 18" Wide Roof Panel over Open Framing

Florida Product Approval #11650.1 R3

Florida Building Code 2017
Per Rule 61G20-3
Method: 1 –D

Category: Structural Components

Subcategory: Roof Deck

Compliance Method: 61G20-3.005(1)(d)
NON HVHZ

Product Manufacturer:

Gulf Coast Supply & Manufacturing, LLC.

14429 SW 2nd Place, Suite G30
Newberry, FL 32669

Engineer Evaluator:

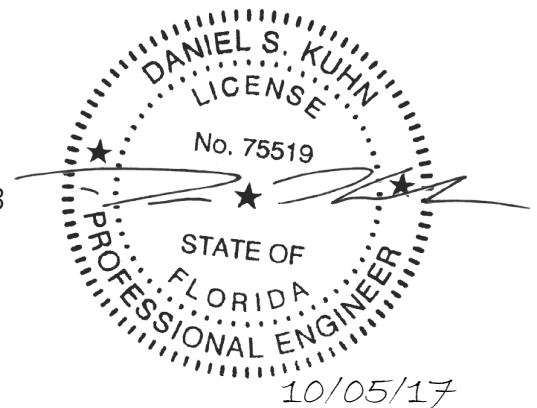
Dan Kuhn, P.E. #75519

Florida Evaluation ANE ID: 10743

Validator:

Locke Bowden, P.E. #49704

9450 Alysbury Place
Montgomery, AL 36117



Contents:

Evaluation Report Pages 1 – 5





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- Compliance Statement:** The product as described in this report has demonstrated compliance with the Florida Building Code 2017, Sections 1504.3.2, 1504.7.
- Product Description:** MegaLoc™, 2" Mechanical Lock Standing Seam Roof Panel, Minimum 24 Ga. Steel, Maximum 18" Coverage. Structural Application.
- Panel Material/Standards:** Material: Minimum 24 Ga. Steel, ASTM A792 or ASTM A653 G90 conforming to Florida Building Code 2017 Section 1507.4.3. Paint Finish Optional. Yield Strength: Minimum 80.0 ksi
Corrosion Resistance: Panel Material shall comply with Florida Building Code 2017, Section 1507.4.3.
- Panel Dimension(s):** Thickness: 0.0245" Minimum
Width: 18" Maximum Coverage
Rib Height: 2"
Panel Seam: 180° Seam, Double Lock w/ Mechanical Seamer
- Roof Panel Clips:** Product Name: NC-33003 Sliding Clip Assembly
Corrosion Resistance: Per Florida Building Code 2017 Section 1506.7
- Clip Fastener:** (2) #10-16 x 1" Pancake Self Driller per clip.
Corrosion Resistance: Per Florida Building Code 2017, Section 1506.6, 1507.4.4
- Substrate Description:** Minimum 16 Ga. Steel Framing. Must be designed in accordance w/ Florida Building Code 2017.
- Design Uplift Pressures:**

Table "A"		
Maximum Design Pressure	-45.0 psf	-120.0 psf
Clip Spacing	5'-0" O.C.	1'-0" O.C.
<i>*Design Pressure Includes a Safety Factor = 2.0</i>		



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Code Compliance:	The product described herein has demonstrated compliance with the Florida Building Code 2017, Sections 1504.3.2, 1504.7.
Evaluation Report Scope:	The product evaluation is limited to compliance with the structural wind load requirements of the Florida Building Code 2017, as relates to Rule 61G20-3.
Performance Standards:	The product described herein has demonstrated compliance with: <ul style="list-style-type: none">• ASTM E 1592-12 Test method for structural performance of sheet metal roof and siding systems by uniform static air pressure difference.• FM 4471-1992, Section 4.4 Foot Traffic Resistance Test
Reference Data:	<ol style="list-style-type: none">1. ASTM E 1592-01 Force Engineering & Testing, Inc. (FBC Organization # TST-5328) Report No. 117-0247T-08 Dated 07/14/20072. FM 4471-95, Section 4.4 Foot Traffic Resistance Test Force Engineering & Testing, Inc. (FBC Organization # TST-5328) Report No. 117-0238T-09A, Dated 07/20/20093. Certificate of Independence By Dan Kuhn, P.E. (FL# 75519) @ Kuhn Engineering, LLC (FBC Organization # ANE ID: 10743)
Test Standard Equivalence:	<ol style="list-style-type: none">1. ASTM E 1592-01 is equivalent to ASTM E 1592-12.2. The FM 4471-95 test standard is equivalent to the FM 4471-1992 test standard.
Quality Assurance Entity:	The manufacturer has established compliance of roof panel products in accordance with the Florida Building Code and Rule 61G20-3.005(3) for manufacturing under a quality assurance program audited by an approved quality assurance entity.
Minimum Slope Range:	Minimum Slope shall comply with Florida Building Code 2017, including Section 1507.4.2 and in accordance with Manufacturer's recommendations.
Installation:	Install per Manufacturer's recommended details.
Insulation:	Manufacturer's approved product (Optional).
Roof Panel Fire Classification:	Fire classification is not part of this evaluation
Shear Diaphragm:	Shear Diaphragm values are outside the scope of this report.





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Design Procedure:

The design professional shall select the appropriate erection details to reference in his drawings for proper fastener attachment to his structure and analyze the panel fasteners for pullout. The maximum fastener spacing listed herein shall not be exceeded. Support framing must be in compliance with FBC 2017. Design wind loads shall be determined for each project in accordance with FCB 2017 or ASCE7-10 using allowable stress design method.

