

Force Engineering & Testing  
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**Product Evaluation Report**  
**McELROY METAL, INC.**

**138T Roof Panel 24 Ga. 16" Coverage Plywood**

**Florida Product Approval # 22330.1 R6**

Florida Building Code 2026  
Per Rule 61G20-3  
Method: 1 -D

Category: Roofing  
Subcategory: Metal Roofing  
Compliance Method: 61G20-3.005(1)(d)  
NON HVHZ

**Product Manufacturer:**

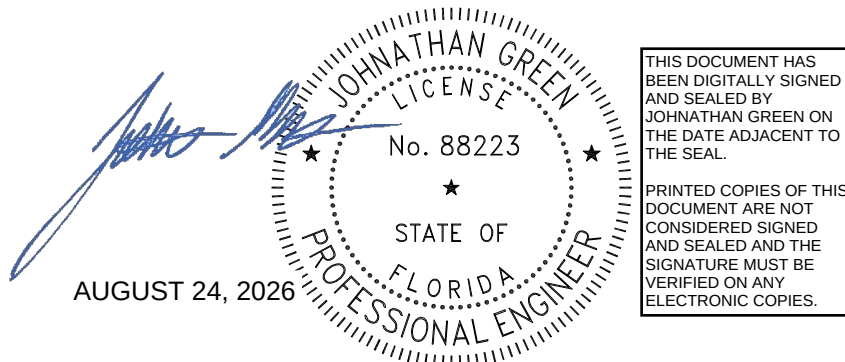
**McElroy Metal, Inc.**  
1500 Hamilton Road  
Bossier City, LA 71111

**Engineer Evaluator:**

**Johnathan Green, P.E. #88223**  
Florida Evaluation ANE ID: 12901

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BEEN DIGITALLY SIGNED  
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JOHNATHAN GREEN ON  
THE DATE ADJACENT TO  
THE SEAL.

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- Compliance Statement:** The product as described in this report has demonstrated compliance with the Florida Building Code 2026, Sections 1504.3.2.
- Product Description:** 138T Min. 24 Ga. Steel, 16" Coverage, standing seam roof panel over APA Rated Plywood decking. Non-Structural Application.
- Panel Material/Standards:** Material: Minimum 24 Ga. Steel, ASTM A792 or ASTM A653 G90 conforming to Florida Building Code 2026 Section 1507.4.3. Paint finish optional  
Yield Strength: Min. 50.0 ksi  
Corrosion Resistance: Panel Material shall comply with Florida Building Code 2026, Section 1507.4.3.
- Panel Dimension(s):** Thickness: 0.023"  
Width: 16" Maximum Coverage  
Rib: 1 3/8" tall T Rib  
Panel Seam: Mechanically seamed
- Panel Clip:** Product Name: 8" Shingle Recover Clip  
Type: Fixed, 16 Ga. steel, 8" long  
Corrosion Resistance: Per Florida Building Code 2026 Section 1506.7 and Section 1711 for installations within 3000 ft. of a saltwater coastline.
- Panel Clip Fastener:** #14-10 x 1 1/2" HWH Type A (See Table A for number of fasteners per panel clip)  
1/4" minimum penetration through plywood  
Corrosion Resistance: Per Florida Building Code 2026 Section 1506.6, 1507.4.4 and Section 1711 for installations within 3000 ft. of a saltwater coastline.
- Substrate Description:** 1) One layer of asphalt shingles/felt paper (optional) over 15/32" or greater APA Rated plywood. Design of plywood and plywood supports (maximum 24" O.C.) are outside the scope of this evaluation. Substrate must be designed in accordance w/ Florida Building Code.  
  
2) One layer of asphalt shingles/felt paper (optional) over 19/32" or greater APA Rated plywood. Design of plywood and plywood supports (maximum 24" O.C.) are outside the scope of this evaluation. Substrate must be designed in accordance w/ Florida Building Code.  
  
3) See FBC Section 1511 for roof recovering.

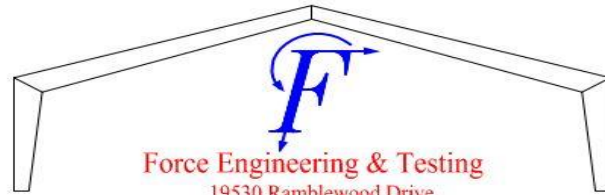
**Allowable Design Uplift Pressures:**

| Table A                                   |                |                |                |                |
|-------------------------------------------|----------------|----------------|----------------|----------------|
| Maximum Allowable Uplift Design Pressure: | 71.0 psf       | 153.5 psf      | 71.0 psf       | 146.0 psf      |
| Substrate Thickness:                      | 15/32" Plywood | 15/32" Plywood | 19/32" Plywood | 19/32" Plywood |
| Panel Clip Spacing:                       | 4'-0" O.C.     | 1'-0" O.C.     | 4'-0" O.C.     | 1'-0" O.C.     |
| Number of Fasteners per Clip:             | 4              | 4              | 2              | 2              |

\*Design Pressure includes a Safety Factor = 2.0.

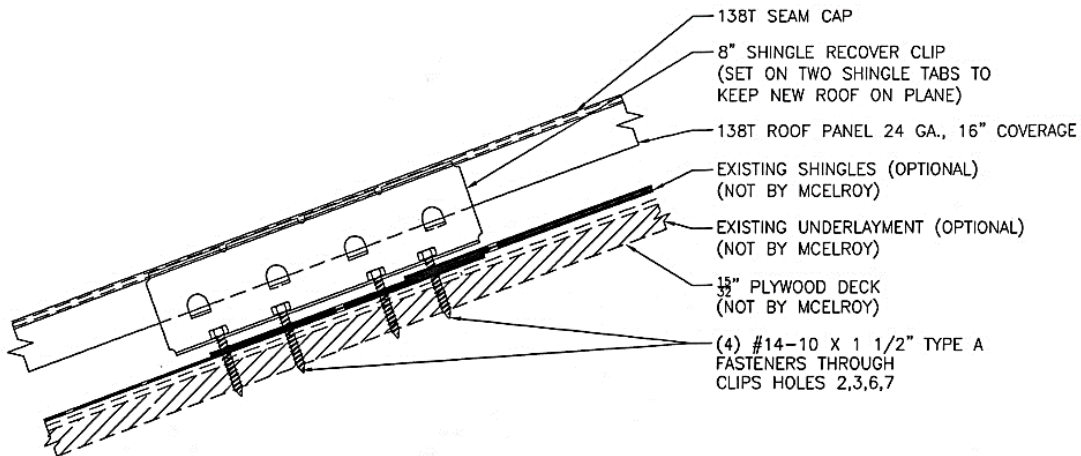


|                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Code Compliance:</b>                | The product described herein has demonstrated compliance with The Florida Building Code 2026, Section 1504.3.2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Evaluation Report Scope:</b>        | The product evaluation is limited to compliance with the structural wind load requirements of the Florida Building Code 2026, as relates to Rule 61G20-3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Performance Standards:</b>          | The product described herein has demonstrated compliance with: <ul style="list-style-type: none"><li>▪ UL 580-06 - Test for Uplift Resistance of Roof Assemblies</li><li>▪ UL 1897-15 - Uplift Test for Roof Covering Systems</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Reference Data:</b>                 | <ol style="list-style-type: none"><li>1. UL 580-06 / 1897-04 Uplift Test<br/>Force Engineering &amp; Testing, Inc. (FBC Organization # TST-5328)<br/>Report No. 90-0059T-17</li><li>2. Certificate of Independence<br/>By Johnathan Green, P.E. (No. 88223) @ Force Engineering &amp; Testing<br/>(FBC Organization # ANE ID: 12901)</li></ol>                                                                                                                                                                                                                                                                                         |
| <b>Test Standard Equivalency:</b>      | The UL 1897-04 test standard is equivalent to the UL 1897-2015 test standard.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Quality Assurance Entity:</b>       | 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.                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Minimum Slope Range:</b>            | Minimum Slope shall comply with Florida Building Code 2026, including Section 1507.4.2 and in accordance with Manufacturers recommendations. For slopes less than 3:12, lap sealant must be used in the panel side laps.                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Installation:</b>                   | Install per manufacturer's recommended details.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Limitation:</b>                     | Metal hip and ridge covers are outside the scope of this evaluation report and must be in compliance with FBC 2026 Section 1504.3.1.1 through other product approval.                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Underlayment:</b>                   | Per Florida Building Code 2026, Section 1507.1.1 and manufacturer's installation guidelines. Section 1511 for roof recovering.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Roof Panel Fire Classification:</b> | Fire classification is not part of this acceptance.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Shear Diaphragm:</b>                | Shear diaphragm values are outside the scope of this report.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Design Procedure:</b>               | Based on the dimensions of the structure, appropriate wind loads are determined using Chapter 16 of the Florida Building Code 2026 for roof cladding wind loads. These component wind loads for roof cladding are compared to the allowable pressure listed above. 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 and pullover. Support framing must be in compliance with Florida Building Code 2026 Chapter 22 for steel, Chapter 23 for wood and Chapter 16 for structural loading. |



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## 15/32" PLYWOOD SUBSTRATE



## 19/32" PLYWOOD SUBSTRATE

