

**EVALUATION REPORT OF  
MAJOR'S METAL ROOFING & CUSTOM SHEET METAL, INC.  
'1.5" MECHANICALLY SEAMED PANEL'  
(24 GA. STEEL, 0.032" THICK ALUMINUM OR 16 OZ. COPPER)**

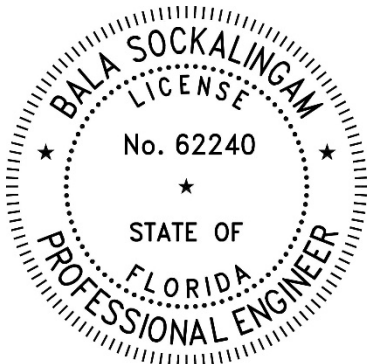
**FLORIDA BUILDING CODE 9TH EDITION (2026)  
FLORIDA PRODUCT APPROVAL  
FL 16179.1-R6  
ROOFING  
METAL ROOFING**

**Prepared For:  
Major's Metal Roofing & Custom Sheet Metal, Inc.  
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**Prepared By:  
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**This report consists of  
Evaluation Report (3 Pages including cover)  
Installation Details (1 Page)  
Load Span Table (1 Page)**

**Report No. C3084-1  
Date: 10.15.2026**



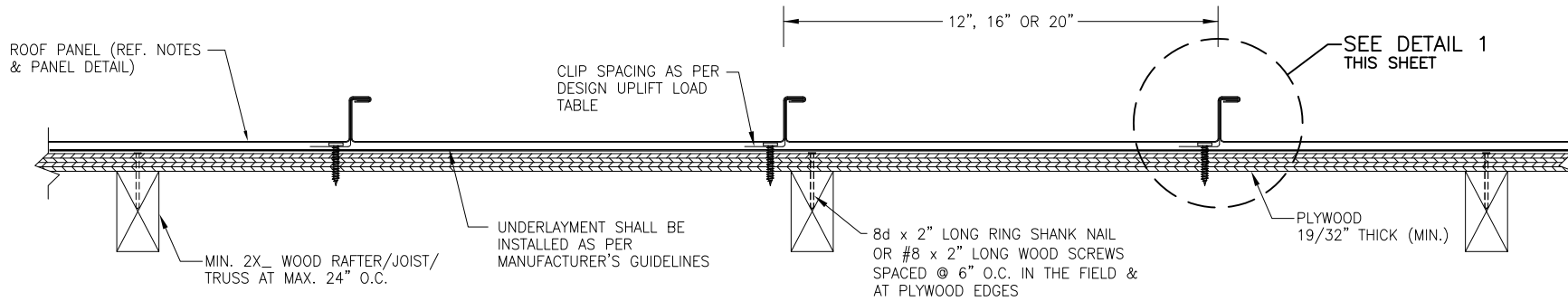
This item has been digitally signed and sealed by Bala Sockalingam, PE, on the date indicated.

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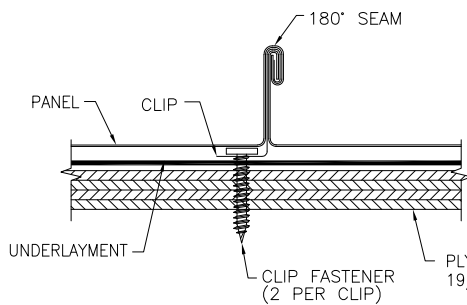
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| Manufacturer:           | Major's Metal Roofing & Custom Sheet Metal, Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Product Name:           | 1.5" Mechanically Seamed Panel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Panel Description:      | Standing seam panel with 12", 16" or 20" wide coverage and 1.5" high ribs with 90° or 180° seam.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Materials:              | Min. 24 ga., 50 ksi steel. galvanized coated steel (ASTM A653) or galvalume coated steel (ASTM A792) or painted steel (ASTM A755). Corrosion resistant as per FBC 2026 Section 1507.4.3.<br>Nom. 0.032" thick aluminum (ASTM B209).<br>Nom. 16 oz./sq.ft copper (ASTM B370).                                                                                                                                                                                                                                                                                                          |
| Deck Description:       | Min. 19/32" thick APA rated plywood or wood plank for new and existing constructions. Designed and installed as per FBC 2026.                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Deck Attachment:        | 8d x 2" long ring shank nails or #8 x 2" long wood screws at 6" o.c. in the plywood field and at 4" o.c. along edges.                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Underlayment:           | Minimum underlayment as per FBC 2026 Section 1507.4.5.1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Slope:                  | 1/4:12 or greater in accordance with FBC 2026 Section 1507.4.2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Design Uplift Pressure: | 57.3 psf at clip spacing of 34" o.c. for 12", 16" & 20" wide steel panels with 90° seam.<br>101 psf at clip spacing of 8" o.c. for 20" wide steel panels with 90° seam.<br>131 psf at clip spacing of 8" o.c. for 12" & 16" wide steel panels with 90° seam.<br>101 psf at clip spacing of 34" o.c. for 12", 16" & 20" wide aluminum panels with 180° seam.<br>60 psf at clip spacing of 12" o.c. for 12", 16" & 20" wide copper panels with 180° seam.<br>136.8 psf at clip spacing of 6" o.c. for 12" & 16" wide copper panels with 180° seam.                                      |
| Panel Attachment:       | 2" long, 1.125" wide and 1.5" high fixed clip with (2) #10 x 1" long low profile wood screws per clip. 24 ga. galvalume steel clips for steel panels and 26 ga. stainless steel clips for aluminum and copper panels. Clips and fasteners are corrosion resistant as per FBC 2026 Section 1506.7 and 1507.4.4, respectively. At panel ends, panels will be fastened to deck as per Major's Metal current installation procedure.<br><br>For installation in areas within 3000 ft. of a saltwater coastline, clips and fasteners are corrosion resistant as per FBC 2026 Section 1711. |

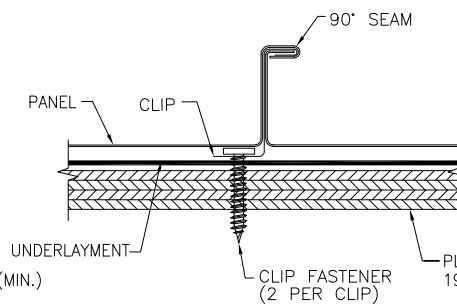
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|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Standards:       | Roof assembly tested in accordance with TAS 125-03 'Standard Requirements for Metal Roofing Systems'.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Code Compliance:      | The product described herein has demonstrated compliance with FBC 2026 Section 1507.4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Product Limitations:  | Design wind loads shall be determined for each project in accordance with FBC 2026 Section 1609 or ASCE 7-22 using allowable stress design. The maximum clip spacing listed herein shall not be exceeded. The design pressure for reduced clip spacing may be computed using rational analysis prepared by a Florida Professional Engineer or based on Major's Metal load span table. This evaluation report is not applicable in High Velocity Hurricane Zone. Fire classification is not within the scope of this Evaluation Report. Refer to FBC 2026 Section 1505 and current approved roofing materials directory or ASTM E108/UL790 report from an accredited laboratory for fire ratings of this product. Metal ridge and hip covers shall comply with FBC 2026 Section 1504.3.1.1 and is not within the scope of this Evaluation Report. Compliance shall be obtained through other approved product subcategory. |
| Supporting Documents: | TAS 125-03 Test Reports<br>Intertek Testing Services (Formerly Hurricane Test Laboratory, LLC)<br>0299-0801-03, Reporting Date 10/27/2003<br>0299-0320-04, Reporting Date 5/6/2004<br>0299-0728-03, Reporting Date 10/27/2003<br>0299-0311-02, Reporting Date 6/7/2002<br>0299-0516-07, Reporting Date 6/14/2007                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |



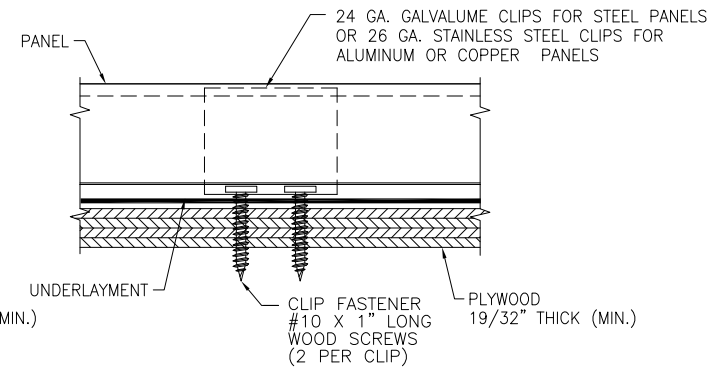
**TYPICAL PANEL INSTALLATION X-SECTION**



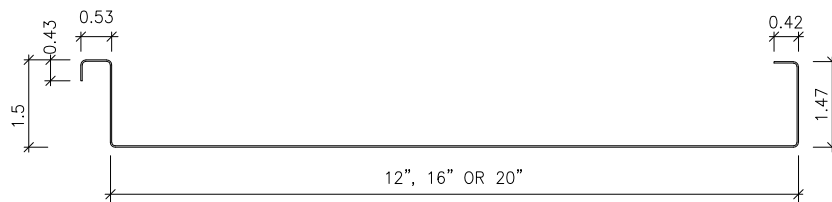
**CLIP SECTION VIEW**



**DETAIL 1**



**CLIP SIDE VIEW**



**PANEL SECTION**

(MIN 24 GA. STEEL)  
(MIN 0.032" THICK ALUMINUM)  
(MIN 16 OZ COPPER)

**GENERAL NOTES:**

1. ARCHITECTURAL STANDING SEAM ROOF PANEL HAS BEEN DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE (FBC).
2. ROOF PANELS SHALL BE MIN. 24 GA. STEEL, 0.032" THICK ALUMINUM OR 16 OZ COPPER. EFFECTIVE COVERING WIDTH OF PANEL = 12", 16" OR 20".
3. THE ROOF PANELS SHALL BE INSTALLED OVER STRUCTURE AS SPECIFIED ON THIS DRAWING.
4. REQUIRED DESIGN WIND LOADS SHALL BE DETERMINED FOR EACH PROJECT. THIS PANEL SYSTEM MAY NOT BE INSTALLED WHEN THE REQUIRED DESIGN WIND LOADS ARE GREATER THAN THE ALLOWABLE WIND LOADS SPECIFIED ON LOAD TABLE.
5. CLIPS AND FASTENERS MUST BE IN ACCORDANCE WITH THIS DRAWING & FLORIDA BUILDING CODE. IF A DIFFERENCE OCCURS BETWEEN THE MINIMUM REQUIREMENTS OF THIS DRAWING & THE CODE, THE CODE SHALL CONTROL.
6. PURLINS/JOISTS/TRUSSES MUST BE DESIGNED TO WITHSTAND WIND LOADS AS REQUIRED FOR EACH APPLICATION AND ARE THE RESPONSIBILITY OF OTHERS.

|                                                                                                                                                                                                                                                                                                                                                    |                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| DRAWN BY:<br>B.S.                                                                                                                                                                                                                                                                                                                                  | CHECKED BY:<br>M.C. |
| PLOT:                                                                                                                                                                                                                                                                                                                                              | DATE:<br>1/5/2023   |
| DATE                                                                                                                                                                                                                                                                                                                                               | BY                  |
| REVISION DESCRIPTION                                                                                                                                                                                                                                                                                                                               | NO.                 |
| <p><b>DRAWING TITLE</b></p> <p>24 GA. 1.5" MECHANICALLY SEAMED PANEL</p> <p>CONSULTANTS<br/><b>BALA SOCKALINGAM, PH.D., P.E.</b></p> <p>MANUFACTURER<br/><b>MAJOR'S METAL ROOFING &amp; CUSTOM SHEET METAL, INC.</b><br/>406 NW 54th STREET<br/>MIAMI, FL 33127</p> <p>1216 N LANSING AVE, SUITE C<br/>TULSA, OK 74106<br/>PHONE: 918-492-5992</p> |                     |
| DRAWING NO.<br><b>3084-1</b>                                                                                                                                                                                                                                                                                                                       | REV.                |
| PAGE NO.<br><b>1</b>                                                                                                                                                                                                                                                                                                                               | OF<br><b>1</b>      |

# MAJOR'S METAL ROOFING & CUSTOM SHEET METAL, INC.

## 1.5" Mechanically Seamed Panel Uplift Loads

| Panel Description                                                                             | Clip Spacing<br>(in) | Uplift Design<br>Load<br>(psf) |
|-----------------------------------------------------------------------------------------------|----------------------|--------------------------------|
| 20" wide<br>Min. 24 ga steel - 90° seam.<br>24 Ga. Galvalume Steel Clip                       | <b>8</b>             | <b>101.0</b>                   |
|                                                                                               | 12                   | 94.3                           |
|                                                                                               | 16                   | 87.6                           |
|                                                                                               | 20                   | 80.8                           |
|                                                                                               | 24                   | 74.1                           |
|                                                                                               | 28                   | 67.4                           |
|                                                                                               | <b>34</b>            | <b>57.3</b>                    |
| 12" or 16" wide<br>Min. 24 ga steel - 90° seam.<br>24 Ga. Galvalume Steel Clip                | <b>8</b>             | <b>131.0</b>                   |
|                                                                                               | 12                   | 119.7                          |
|                                                                                               | 16                   | 108.3                          |
|                                                                                               | 20                   | 97.0                           |
|                                                                                               | 24                   | 81.2                           |
|                                                                                               | 28                   | 69.6                           |
|                                                                                               | <b>34</b>            | <b>57.3</b>                    |
| 12", 16" or 20" wide<br>Min 0.032" thick Aluminum - 180° seam.<br>26 Ga. Stainless Steel Clip | <b>34</b>            | <b>101.0</b>                   |
| 20" wide<br>Min. 16 oz/sq.ft Copper - 180° seam.<br>26 Ga. Stainless Steel Clip               | <b>12</b>            | <b>60.0</b>                    |
| 12" or 16" wide<br>Min. 16 oz/sq.ft Copper - 180° seam.<br>26 Ga. Stainless Steel Clip        | <b>6</b>             | <b>136.8</b>                   |
|                                                                                               | 8                    | 102.6                          |
|                                                                                               | 10                   | 82.1                           |
|                                                                                               | <b>12</b>            | <b>60.0</b>                    |

### Notes:

1. The bold numbers indicate design loads calculated from test data with safety factor of 2.
2. Panels must be installed as per Evaluation Report FL 16179.1 and Major's Metal current installation procedure.
3. Three or more spans condition.