

**EVALUATION REPORT OF  
BOSS METAL, INC.  
'26 GA. 5V CRIMP PANEL'**

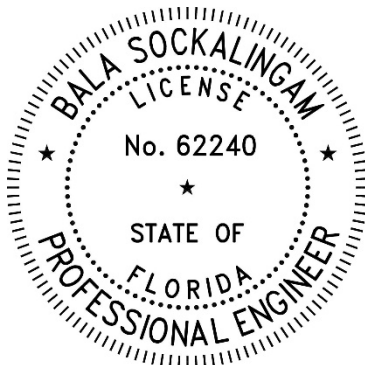
**FLORIDA BUILDING CODE 9TH EDITION (2026)  
FLORIDA PRODUCT APPROVAL  
FL 19624.1-R4  
ROOFING  
METAL ROOFING**

**Prepared For:  
Boss Metals, Inc.  
1750 Frankford Ave  
Panama City, FL 32405  
Telephone: (850) 481-5629**

**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. C3086-1  
Date: 10.10.2026**



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

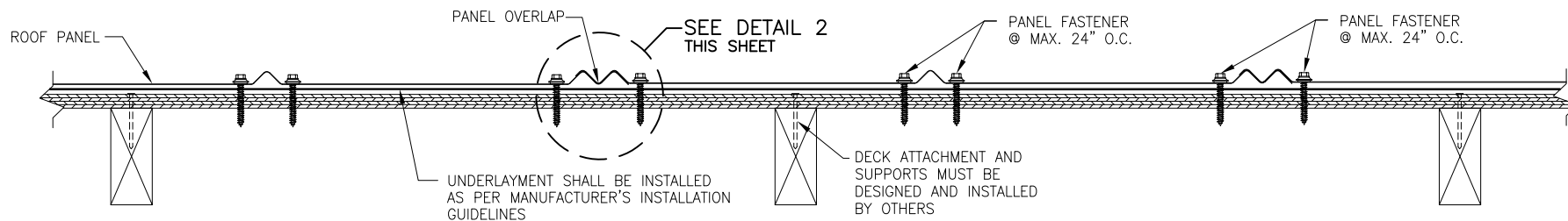
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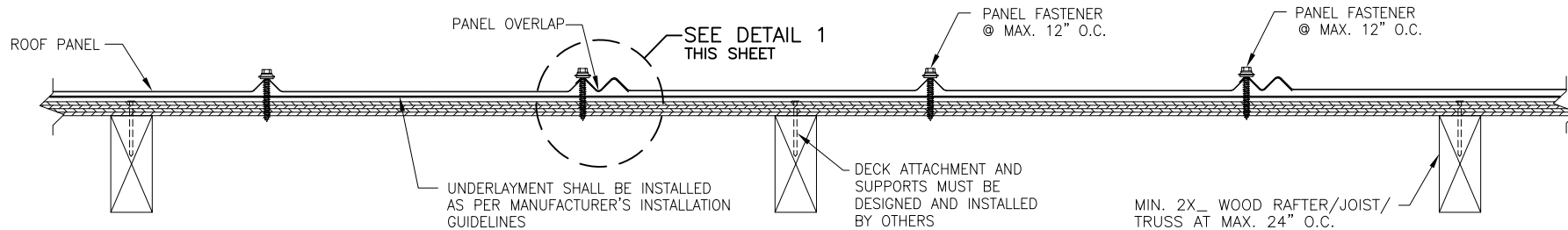
|                      |                                                                                                                                                                                                         |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Manufacturer:        | Boss Metal, Inc.                                                                                                                                                                                        |
| Product Name:        | 5V Crimp Panel                                                                                                                                                                                          |
| Panel Description:   | 24" wide coverage with (5) 1/2" high ribs                                                                                                                                                               |
| Materials:           | Minimum 26 ga., 80 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.             |
| Deck Description:    | Min. 15/32" thick APA rated plywood or min. 3/4" thick wood plank (min SG of 0.42) for new and existing constructions. Designed by others and installed as per FBC 2026.                                |
| Underlayment:        | Minimum underlayment as per FBC 2026 Section 1507.4.5.1                                                                                                                                                 |
| Slope:               | 1/2:12 or greater in accordance with FBC 2026 Section 1507.4.2. Requires applied lap sealant for roof slopes less than 3:12.                                                                            |
| Uplift Pressure:     | For 19/32" thick plywood (Factor of Safety = 2)                                                                                                                                                         |
| Fastener pattern 1   | 90 psf at fastener spacing of 24" o.c.<br>187.5 psf at fastener spacing of 16" o.c.                                                                                                                     |
| Fastener pattern 2   | 90 psf at fastener spacing of 24" o.c.<br>232.5 psf at fastener spacing of 12" o.c.                                                                                                                     |
| Panel Attachment:    | Fasteners are corrosion resistant as per FBC 2026 Section 1507.4.4. For installation in areas within 3000 ft. of a saltwater coastline, fasteners are corrosion resistant as per FBC 2026 Section 1711. |
| Fastener pattern 1   | #10 x 1.5" long wood screw with washer through panel flat. Four fasteners per panel width. (One each adjacent to overlap and underlap ribs and on both sides of intermediate rib).                      |
| Fastener pattern 2   | #10 x 1.5" long wood screw with washer at max 12" o.c. across panel width through panel rib.                                                                                                            |
| 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 fastener spacing listed herein shall not be     |

exceeded. The design pressure for reduced fastener spacing may be computed using rational analysis prepared by a Florida Professional Engineer or based on Boss Metals load span tables. This evaluation report is not applicable in High Velocity Hurricane Zone. Fire classification is not within 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 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  
PRI Construction Materials Technologies, LLC.  
Report #ACM-001-02-01, Reporting Date 5/11/2011  
Report #ACM-001-02-02, Reporting Date 5/11/2011

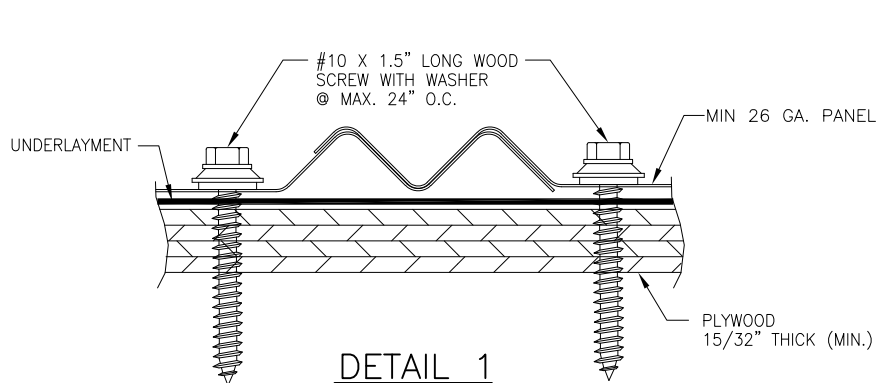


FASTENER PATTERN 1

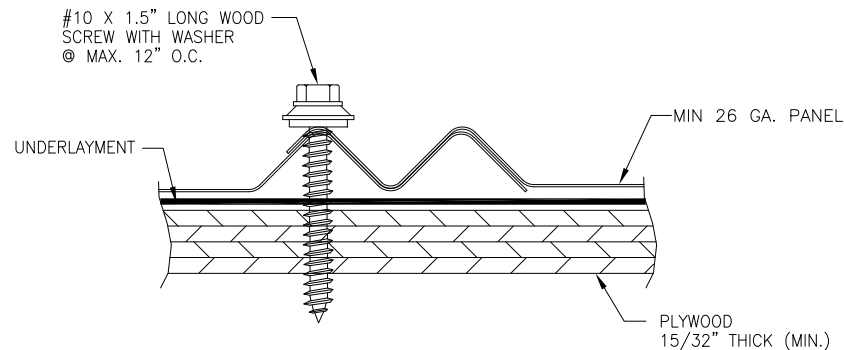


FASTENER PATTERN 2

# TYPICAL PANEL INSTALLATION X-SECTION



DETAIL 1



DETAIL 2

## GENERAL NOTES:

1. ARCHITECTURAL ROOF PANEL HAS BEEN DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE (FBC).
2. ROOF PANELS ARE SHALL BE MINIMUM 26 GA. EFFECTIVE COVERING WIDTH OF PANEL = 24".
3. THE ROOF PANELS SHALL BE INSTALLED OVER SHEATHING & 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 LOAD TABLE.
5. ALL FASTENERS MUST BE IN ACCORDANCE WITH THIS DRAWING & THE FLORIDA BUILDING CODE. IF A DIFFERENCE OCCURS BETWEEN THE MINIMUM REQUIREMENTS OF THIS DRAWING & THE CODE, THE CODE SHALL CONTROL.
6. RAFTERS/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>D.B.                                                                             |
| PLOT:                                        | DATE:<br>2/8/2021                                                                               |
| DATE                                         |                                                                                                 |
| BY                                           |                                                                                                 |
| REVISION DESCRIPTION                         |                                                                                                 |
| NO                                           |                                                                                                 |
| DRAWING TITLE<br>5V PANEL                    | MANUFACTURER<br>BOSS METAL, INC.<br>1750 FRANKFORD AVE<br>PANAMA CITY, FL 32405<br>850-481-5629 |
| CONSULTANTS<br>BALA SOCKALINGAM, PH.D., P.E. | 1216 N LANSING AVE, SUITE C<br>TULSA, OK 74106<br>PHONE: 918-492-5992                           |
| DRAWING NO.<br>3086-1                        | REV.                                                                                            |
| SHEET NO.<br>1                               | OF<br>1                                                                                         |

**BOSS METAL, INC.**  
**5V Crimp Panel Allowable Uplift Loads**  
**(Min 26 ga.)**

| Description                                                                                                                                                                       | Fastener Spacing<br>along Panel Length<br>(in) | Allowable Uplift Load (psf) |        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|-----------------------------|--------|
|                                                                                                                                                                                   |                                                | Plywood Thickness (in)      |        |
|                                                                                                                                                                                   |                                                | 15/32"                      | 19/32" |
| Coverage width: 24"<br><br>Panel fasteners through flat<br>Four fastener per panel<br>adjacent to panel ribs<br>(Fastener Pattern 1)<br>#10 x 1.5" long wood<br>screw with washer | 16                                             | 148                         | 187.5  |
|                                                                                                                                                                                   | 17                                             | 138.4                       | 175.3  |
|                                                                                                                                                                                   | 18                                             | 128.8                       | 163.1  |
|                                                                                                                                                                                   | 19                                             | 119.2                       | 150.9  |
|                                                                                                                                                                                   | 20                                             | 109.5                       | 138.8  |
|                                                                                                                                                                                   | 21                                             | 99.9                        | 126.6  |
|                                                                                                                                                                                   | 22                                             | 90.3                        | 114.4  |
|                                                                                                                                                                                   | 23                                             | 80.7                        | 102.2  |
|                                                                                                                                                                                   | 24                                             | 71.1                        | 90.0   |

| Description                                                                                                                                        | Fastener Spacing<br>along Panel Length<br>(in) | Allowable Uplift Load (psf) |        |
|----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|-----------------------------|--------|
|                                                                                                                                                    |                                                | Plywood Thickness (in)      |        |
|                                                                                                                                                    |                                                | 15/32"                      | 19/32" |
| Coverage width: 24"<br><br>Panel fasteners through ribs<br>spaced at 12" o.c.<br>(Fastener Pattern 2)<br>#10 x 1.5" long wood<br>screw with washer | 6                                              | 183.6                       | 232.5  |
|                                                                                                                                                    | 7                                              | 121.8                       | 154.3  |
|                                                                                                                                                    | 8                                              | 106.6                       | 135.0  |
|                                                                                                                                                    | 9                                              | 94.7                        | 120.0  |
|                                                                                                                                                    | 10                                             | 85.3                        | 108.0  |
|                                                                                                                                                    | 11                                             | 77.5                        | 98.2   |
|                                                                                                                                                    | 12                                             | 71.1                        | 90.0   |

**Notes:**

1. Design loads were calculated from test data with safety factor of 2.
2. Panels must be installed as per Evaluation Report FL 19624.1 and Boss Metal current installation procedure.
3. Three or more spans condition.