

**EVALUATION REPORT OF
METAL SALES MANUFACTURING CORPORATION
'26 GA. CLASSIC RIB PANEL'
FASTENED TO 18 GA. SUPPORTS**

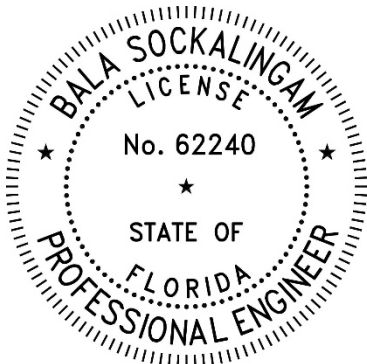
**FLORIDA BUILDING CODE 8TH EDITION (2023)
FLORIDA PRODUCT APPROVAL
FL 47814.1
STRUCTURAL COMPONENTS
ROOF DECK**

**Prepared For:
Metal Sales Manufacturing Corporation
7800 Highway 60
Sellersburg, IN 47172
Telephone: (502) 855-4300
Fax: (502) 855-4200**

**Prepared By:
Bala Sockalingam, Ph.D., P.E.
Florida Professional Engineer #62240
1216 N Lansing Ave., Suite C
Tulsa, OK 74106
Telephone: (918) 492-5992**

**This report consists of
Evaluation Report (3 Pages including cover)
Installation Details (1 Page)
Load Span Table (1 Page)**

**Report No. C2952-1
Date: 10.8.2025**



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

Printed copies of this document are not considered signed and sealed and this signature must be verified on any electronic copies.

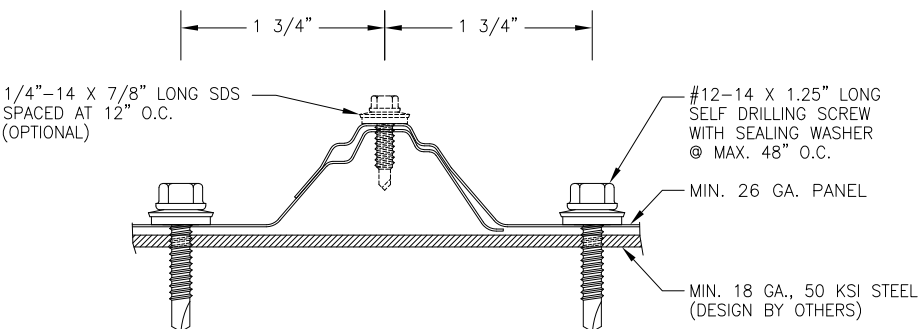
**2025.10.08
18:08:05
-05'00'**

Manufacturer:	Metal Sales Manufacturing Corporation
Product Name:	Classic Rib
Panel Description:	36" wide coverage with (5) 3/4" high ribs
Materials:	Min. 26 ga., 80 ksi or 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 2023 Section 1507.4.3.
Support Description:	Min. 18 ga., 50 ksi steel section. (Must be designed by others)
Slope:	1/2:12 or greater in accordance with FBC 2023 Section 1507.4.2. Requires applied lap sealant for roof slopes less than 3:12.
Underlayment:	Not Required
Design Uplift Pressure: (Factor of Safety = 2)	50.4 psf at fastener spacing of 48" o.c. (3 or more spans) 156.6 psf at fastener spacing of 18" o.c. (3 or more spans)
Panel Attachment:	#12-14 x 1.25" long self-drilling screws with washer. Fasteners are corrosion resistant as per FBC 2023 Section 1507.4.4.
At panel ends	5.5"-3.5"-5.5" o.c. across panel width
At intermediate	9" o.c. across panel width with two fasteners at each sidelap.
Sidelap Attachment: (Optional)	¼"-14 x 7/8" long self-drilling screws with washer at 12" o.c. Fasteners are corrosion resistant as per FBC 2023 Section 1507.4.4. Recommended for roof slope less than 3:12.
Test Standards:	Roof assembly tested in accordance with ASTM E1592-05(2017) 'Test Method for Structural Performance of Sheet Metal Roof and Siding Systems by Uniform Static Air Pressure Difference' and FM 4470 Section 5.5 'Resistance to Foot Traffic'.
Test Equivalency:	The test procedure in FM 4470 (1992) complies with test procedure prescribed in FM 4470 (2016) Section 4.6 'Resistance to Foot Traffic'.
Code Compliance:	The product described herein has demonstrated compliance with FBC 2023 Section 1507.4.
Product Limitations:	Design wind loads shall be determined for each project in accordance with FBC 2023 Section 1609 or ASCE 7-22 using allowable stress design. The maximum fastener spacing listed herein shall not be exceeded. The design uplift pressure for reduced fastener spacing may be computed using rational analysis prepared by a Florida Professional

Engineer or Metal Sales 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 2023 Section 1505 and current approved roofing materials directory or ASTM E108/UL790 report from an accredited laboratory for fire ratings of this product.

Supporting Documents: ASTM E1592 Test Reports
ENCON Technology Inc.
C2944-2, Reporting Date 9/29/2025

FM 4470 Test Report
ENCON Technology Inc.
C1587-2, Reporting Date 5/17/2008



GENERAL NOTES:

1. STRUCTURAL ROOF PANEL HAS BEEN DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE (FBC).
2. ROOF PANELS SHALL BE MIN. 26 GA. ($t = 0.018"$). EFFECTIVE COVERING WIDTH OF PANEL = 36".
3. THE ROOF PANELS SHALL BE INSTALLED OVER STRUCTURE AS SPECIFIED ON THESE DRAWINGS.
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 THIS DRAWING.
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. PURLINS/JOISTS/TRUSSES MUST BE DESIGNED TO WITHSTAND WIND LOADS AS REQUIRED FOR EACH APPLICATION AND ARE THE RESPONSIBILITY OF OTHERS.
7. REQUIRES APPLIED LAP SEALANT FOR ROOF SLOPE $< 3:12$.

DRAWING TITLE	CLASSIC RIB ROOF PANEL					
	CONSULTANTS BALA SOCKALINGAM, PH.D., P.E.		MANUFACTURER METAL SALES MANUFACTURING CORP.			
	1216 N LANSING AVE, SUITE C		7800 HIGHWAY 60			
	TULSA, OK 74106		SELLERSBURG, IN 47172			
	PHONE: 918-492-5992		502-855-4300			
DRAWING NO. 2952-1	REV.				DRAWN BY: B.S.	CHECKED BY: D.S.
PAGE NO. 1 OF 1					DATE: 10/3/2025	

METAL SALES MANUFACTURING CORPORATION
Min 26 ga. Classic Rib Panels Fastened to 18 ga. Supports
Allowable Uplift Loads

Description	Fastener Spacing along panel length (in)	Allowable Uplift Load (psf)
Coverage width: 36"	18	156.6
	20	140.9
Panel Fasteners	22	128.1
#12-14 x 1.25" long hex head screws with sealed washer	24	117.4
	26	108.4
	28	100.7
Interior Supports:	30	93.9
Panel fasteners spaced at 9" o.c. across panel width with two fasteners at each sidelap.	32	88.1
	34	82.9
	36	78.3
	38	74.2
End Supports:	40	70.5
Panel fasteners spaced at 5.5" 3.5"-5.5" o.c. across panel width	42	65.8
	44	59.9
	46	54.8
	48	50.4

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 47814.1 and Metal Sales current installation procedure.
3. Three or more spans condition.