

**EVALUATION REPORT OF
U.S.A. STEEL BUILDINGS INC.
'29 GA. R PANEL'
OVER STEEL SUPPORTS**

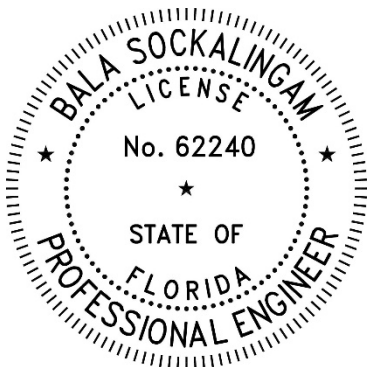
**FLORIDA BUILDING CODE 8TH EDITION (2023)
FLORIDA PRODUCT APPROVAL
FL 13364.1-R6
STRUCTURAL COMPONENTS
ROOF DECK**

**Prepared For:
U.S.A. Steel Buildings Inc.
210 Airport Road
Mt. Airy, NC 27030
Telephone: (800) 579-8589**

**Prepared By:
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**This report consists of
Evaluation Report (2 Pages including cover)
Installation Details (1 Page)**

**Report No. C2769-1
Date: 2.10.2024**

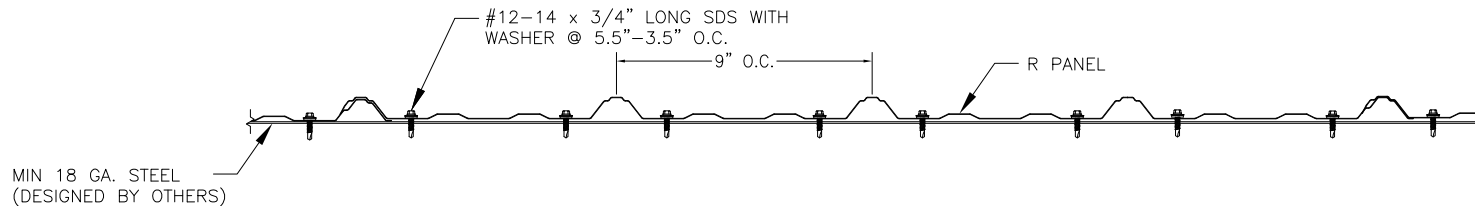


This item has been digitally signed and sealed by Bala Sockalingam, PE, on the date indicated.

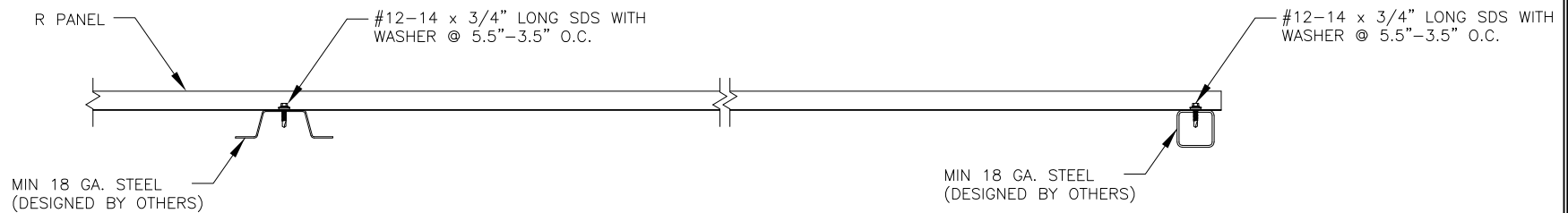
Printed copies of this document are not considered signed and sealed and this signature must be verified on any electronic copies.

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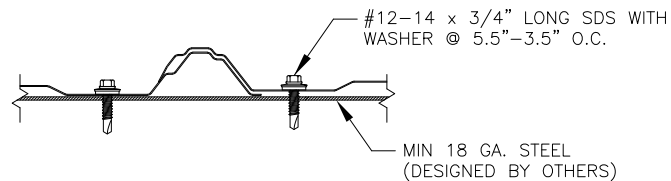
Manufacturer:	U.S.A. Steel Buildings Inc.
Product Name:	R Panel
Panel Description:	36" wide coverage with 3/4" high ribs at 9" o.c.
Materials:	Min. 29 ga., 80 ksi steel. Galvanized coated steel (ASTM A653) or Galvalume coated steel (ASTM A792) or painted steel (ASTM A755). Corrosion resistant as per FBC 2023 Section 1507.4.3.
Support Description:	Min 18 ga., min 50 ksi steel supports. (Must be designed by others)
Slope:	2:12 or greater in accordance with FBC 2023 Section 1507.4.2.
Design Pressure: (Based on testing)	-26.0 psf at support spacing of 60" o.c. (at 3 span condition with FS = 2.0)
Panel Attachment: At all supports	#12-14 x 3/4" long self-drilling screws with washers at 5.5"-3.5"-5.5" o.c. across panel width. Fasteners are corrosion resistant as per FBC 2023 Section 1507.4.4.
Test Standards:	Panel assembly tested in accordance with ASTM E1592-01 'Test Method for Structural Performance of Sheet Metal Roof and Siding Systems by Uniform Static Air Pressure Difference'.
Test Equivalency:	The test procedures in ASTM E1592-01 comply with test procedures prescribed in ASTM E1592-05(2017).
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 support spacing listed herein shall not be exceeded. The design uplift pressure for reduced support spacing may be computed using rational analysis prepared by a Florida Professional Engineer. This evaluation report is not applicable in High Velocity Hurricane Zone. Fire classification is not within 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 Report ENCON Technology Inc. C1682-1, Reporting Date 12/16/2009



TYPICAL PANEL INSTALLATION X-SECTION



SECTION VIEW



PANEL SIDELAP

GENERAL NOTES:

1. ROOF PANEL HAS BEEN DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE (FBC).
2. ROOF PANELS SHALL BE 29 GA. (t = 0.014"). EFFECTIVE COVERING WIDTH OF PANEL = 36".
3. 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 DESIGN LOADS.
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. SUPPORTS MUST BE DESIGNED TO WITHSTAND WIND LOADS AS REQUIRED REQUIRED FOR EACH APPLICATION AND ARE THE RESPONSIBILITY OF OTHERS.
7. PANELS MAY SPAN BETWEEN EAVE TO RIDGE SUPPORTS OR RAKE TO RAKE SUPPORTS.

DRAWN BY:	B.S.	CHECKED BY:	O.P.
PLOT:		DATE:	5/21/18
DATE			
BY			
REVISION	DESCRIPTION		
NO.			
DRAWING TITLE R PANEL OVER STEEL SUPPORTS			
CONSULTANTS BALA SOCKALINGAM, PH.D., P.E. 1216 N LANSING AVE, SUITE C TULSA, OK 74106 PHONE: 918-492-5992 FAX: 866-366-1543			
MANUFACTURER USA STEEL BUILDINGS INC. 16398 Fancy Gap Highway Cong, VA 24317 800-998-2534			
DRAWING NO.	2769-1	REV.	
SHEET NO.	1	OF	1