

**EVALUATION REPORT OF
ACI BUILDING SYSTEMS, LLC'S
'PBR PANEL'**

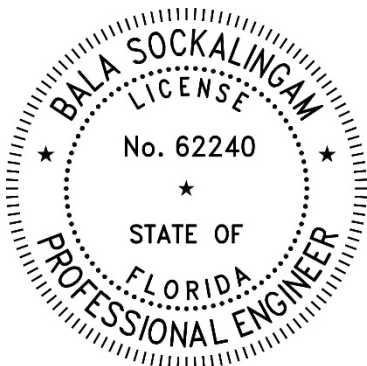
**FLORIDA BUILDING CODE 9TH EDITION (2026)
FLORIDA PRODUCT APPROVAL
FL 7396.2-R9
STRUCTURAL COMPONENTS
ROOF DECK**

**Prepared For:
ACI Building Systems, LLC
10125 Highway 6 West
PO Box 1316
Batesville, MS 38606
Telephone: (662) 563 4574**

**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. C3089-2
Date: 10.12.2026**



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

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Manufacturer:	ACI Building Systems, LLC
Product Name:	PBR Panel
Panel Description:	36" wide coverage with (4) 1-1/4" high ribs at 12" o.c.
Materials:	Min. 26 ga., 80 ksi steel 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 2026 Section 1507.4.3.
Support Description:	Min. 16 ga., 50 ksi steel section. (Must be designed by others)
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.
Design Uplift Pressure: (Factor of Safety = 2) (2 or more spans)	Fastener Pattern 1 -39.5 psf at support spacing of 60 o.c. -149.4 psf at support spacing of 24 o.c. Fastener Pattern 2 -52.4 psf at support spacing of 60 o.c. -193.8 psf at support spacing of 24 o.c.
Panel Fastening:	#12-14 x 1-1/4" long self-drilling screws with washer. Fasteners are corrosion resistant as per FBC 2026 Section 1507.4.4.
Fastener Pattern 1	Fasteners at 12" o.c. across the panel width at interior supports and at 7"-5"-7" o.c. across the panel width at end supports.
Fastener Pattern 2	Fasteners at 7"-5"-7" o.c. across the panel width at all supports.
Sidelap Fastening:	1/4"-14 x 7/8" long self-drilling screws with washer at 20" o.c. Fasteners are corrosion resistant as per FBC 2026 Section 1507.4.4.
	For installation in areas within 3000 ft. of a saltwater coastline, panel and sidelap fasteners are corrosion resistant as per FBC 2026 Section 1711.
Test Standards:	Roof 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' and FM 4470 Section 4.6 'Resistance to Foot Traffic'.
Test Equivalency:	The test procedures in ASTM E1592-01 comply with test procedures prescribed in ASTM E1592-05(2017).

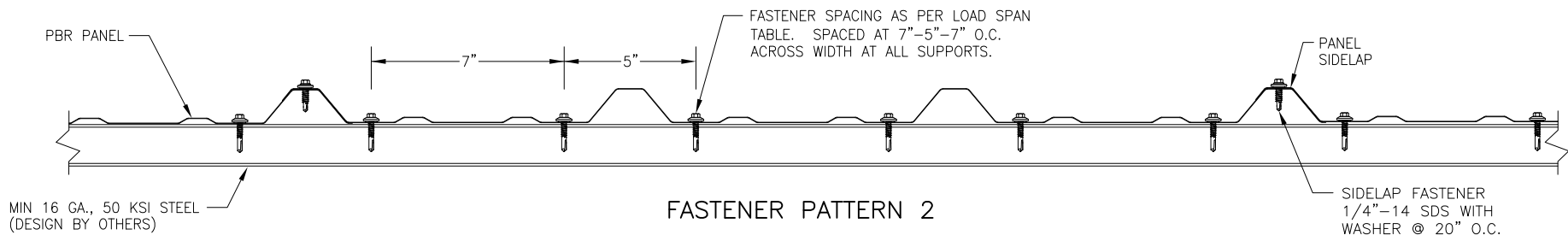
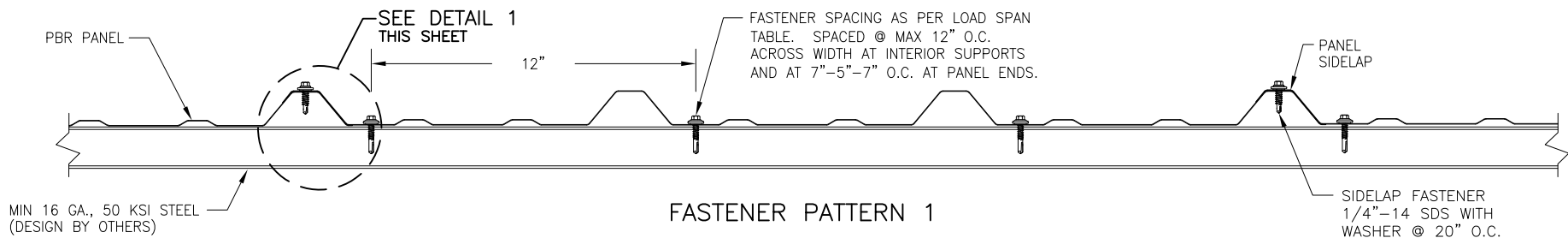
Code Compliance: The product described herein has demonstrated compliance with FBC 2026 Section 1507.4

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 design pressure for support spacing may be computed using rational analysis prepared by a Florida Professional Engineer or based on ACI Building Systems' 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.

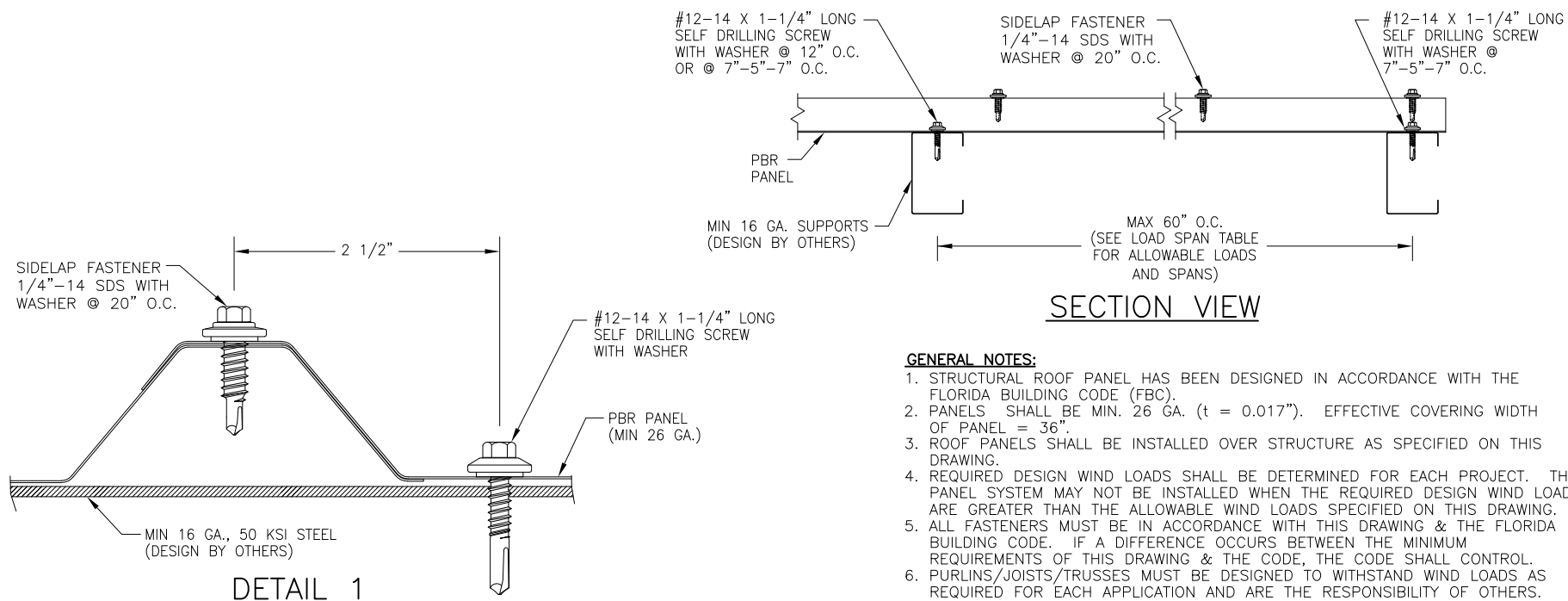
Supporting Documents: ASTM E1592 Test Reports
Farabaugh Engineering and Testing
T155-14, Reporting Date 3/19/2014
T156-14, Reporting Date 3/19/2014

FM 4470 Test Report
ENCON Technology Inc.
C2634-1, Reporting Date 3/25/2023

(ACI Building Systems is authorized to use Associated Steel Group's and Alliance Steel's Test Reports)



TYPICAL PANEL INSTALLATION X-SECTION



GENERAL NOTES:

1. STRUCTURAL ROOF PANEL HAS BEEN DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE (FBC).
2. PANELS SHALL BE MIN. 26 GA. (t = 0.017"). 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 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.

DRAWN BY: B.S.	CHECKED BY: K.S.
PLT:	DATE: 8/24/2024
DATE	
BY	
REVISION DESCRIPTION	
NO	
DRAWING TITLE PBR ROOF PANEL	
MANUFACTURER ACI BUILDING SYSTEMS, LLC 10125 HIGHWAY 6 WEST BATESVILLE, MS 38606 662 563 4574	
CONSULTANTS BALA SOCKALINGAM, PH.D., P.E. 1216 N LANSING AVE, SUITE C TULSA, OK 74106 PHONE: 918-492-5992	
DRAWING NO. 3089-2	REV.
PAGE NO. 1	OF 1

ACI BUILDING SYSTEMS, LLC

PBR Panel

Allowable Uplift Loads

Support Spacing (in)	Allowable Uplift Loads (psf)	
	Fastener Pattern 1	Fastener Pattern 2
24	-149.4	-193.8
27	-129.0	-167.6
30	-112.7	-146.7
33	-99.4	-129.5
36	-88.3	-115.2
39	-78.9	-103.2
42	-70.8	-92.8
45	-63.8	-83.8
48	-57.7	-76.0
51	-52.3	-69.0
54	-47.5	-62.9
57	-43.3	-57.4
60	-39.4	-52.4

Notes:

1. The bold numbers indicate allowable loads calculated from test data with safety factor of 2.
2. Fastener Pattern 1: Fasteners at 12" o.c. across the panel width at interior supports and at 7"-5"-7" o.c. across the panel width at end supports.
3. Fastener Pattern 2: Fasteners at 7"-5"-7" o.c. across the panel width at all supports.
4. Allowable load is applicable to two or more spans conditions.
5. Panels must be installed as per Evaluation Report FL 7396.2 and ACI Building Systems current installation procedure.
6. The structural capacity of support beams are not considered and must be examined independently.
7. Minimum support thickness is 16 ga.