

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

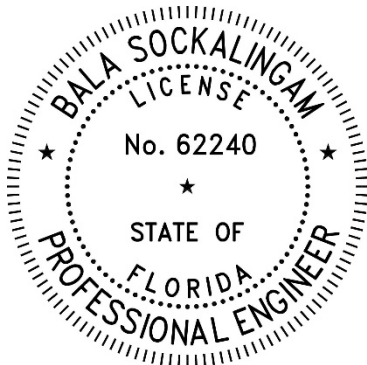
**FLORIDA BUILDING CODE 8TH EDITION (2023)
FLORIDA PRODUCT APPROVAL
FL 7395.3-R8
PANEL WALLS
SIDING**

**Prepared For:
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**This report consists of
Evaluation Report (2 Pages including cover)
Installation Details (1 Page)
Load Span Table (1 Page)**

**Report No. C2685-3
Date: 8.31.2023**

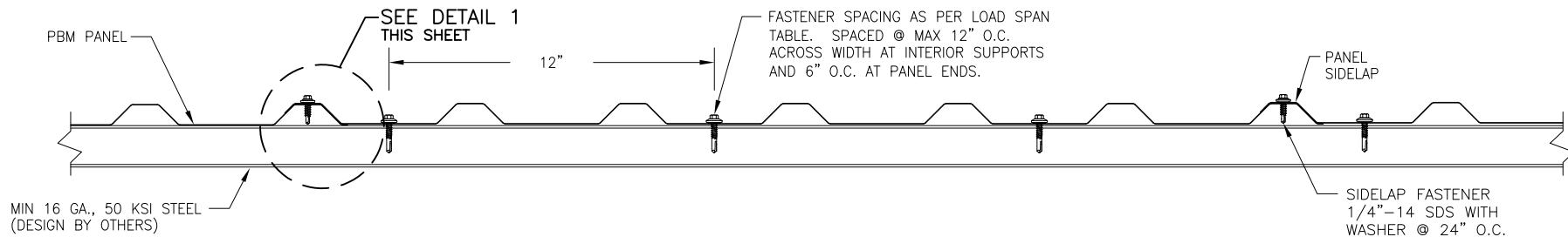


This item has been digitally signed and sealed by Bala Sockalingam, PE, on the date indicated.

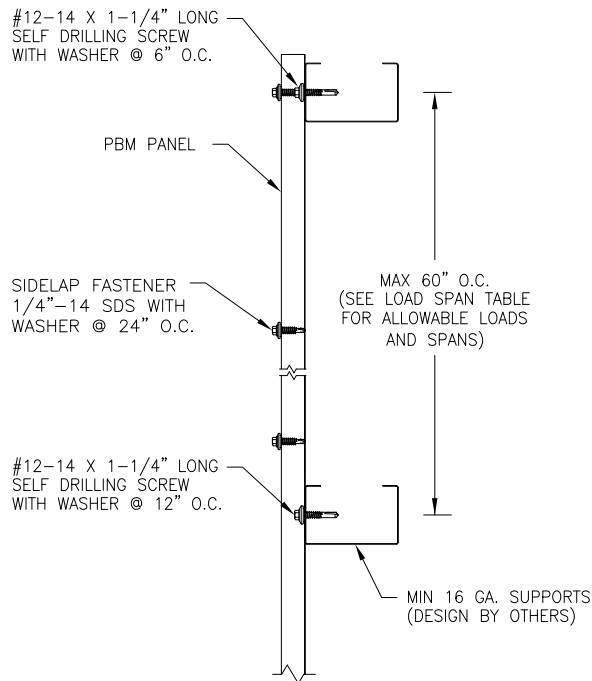
Printed copies of this document are not considered signed and sealed and this signature must be verified on any electronic copies.

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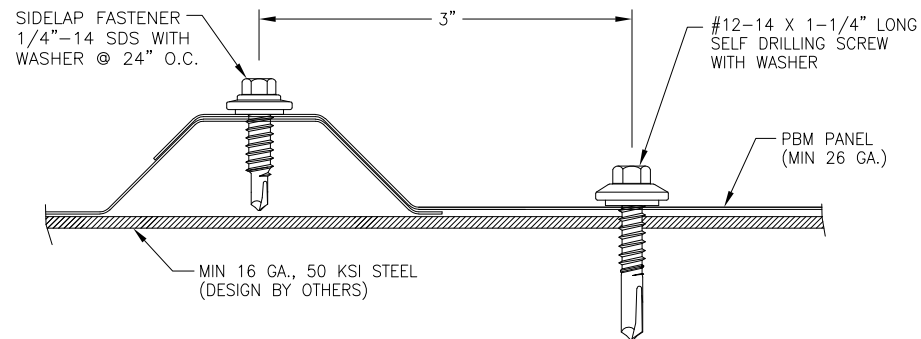
Manufacturer:	ACI Building Systems, LLC
Product Name:	PBM Panel
Panel Description:	36" wide coverage with (7) 3/4" high ribs at 6" o.c
Materials:	Min. 26 ga., 80 ksi steel or min. 24 ga., 50 ksi steel. Galvanized coated steel (ASTM A653) or Galvalume coated steel (ASTM A792) or painted steel (ASTM A755) as per FBC 2023 Section 1405.2.
Support Description:	Min. 16 ga., min 50 ksi steel section. (Must be designed by others)
Design Outward Pressures: (Factor of Safety = 2)	-52.5 psf at support spacing of 60 o.c. -118.9 psf at support spacing of 24 o.c.
Panel Fastening:	#12-14 x 1-1/4" long corrosion resistant self-drilling screws with washer.
At interior supports	at 12" o.c. across panel width
At panel ends	at 6" o.c. across panel width
Sidelap Fastening:	1/4"-14 x 7/8" long corrosion resistant self-drilling screws with washer at 24" o.c.
Test Standard:	Wall assembly tested in accordance with ASTM E1592-05(2012) 'Test Method for Structural Performance of Sheet Metal Roof and Siding Systems by Uniform Static Air Pressure Difference'
Test Equivalency:	The test procedures in E1592-05(2012) comply with test procedures prescribed in ASTM E1592-05(2017).
Code Compliance:	The product described herein has demonstrated compliance with FBC 2023 Section 1404.5.
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 design pressure for reduced 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.
Supporting Documents:	ASTM E1592 Test Report ENCON Technology Inc. C2095-1, Reporting Date 7/27/2016 (ACI Building Systems is authorized to use Alliance Steel's Test Reports)



TYPICAL PANEL INSTALLATION X-SECTION



SECTION VIEW



DETAIL 1

GENERAL NOTES:

1. STRUCTURAL WALL PANEL HAS BEEN DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE (FBC).
2. WALL PANELS SHALL BE MIN 26 GA. ($t = 0.018$). EFFECTIVE COVERING WIDTH OF PANEL = 36".
3. THE WALL 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 FOR EACH APPLICATION AND ARE THE RESPONSIBILITY OF OTHERS.

DRAWN BY: B.S.	CHECKED BY: K.S.
PLOT:	DATE: 8/29/2023
DATE	
BY	
REVISION DESCRIPTION	
NO.	
DRAWING TITLE PBM WALL 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 FAX: 866-366-1543	
DRAWING NO.	REV.
2685-3	
PAGE NO.	
1	1

ACI BUILDING SYSTEMS, LLC
PBM Panel
Allowable Outward Loads

Support Spacing (in)	Allowable Outward Loads (psf)
24	-118.9
27	-113.4
30	-105.0
33	-95.5
36	-87.5
39	-80.8
42	-75.0
45	-70.0
48	-65.6
51	-61.8
54	-58.3
57	-55.3
60	-52.5

Notes:

1. The bold numbers indicate allowable loads calculated from test data with safety factor of 2.
2. Fasteners at 12" o.c. across the panel width at interior supports and at 6" o.c. across the panel width at end supports.
3. Allowable load is applicable to two or more spans conditions.
4. Panels must be installed as per Evaluation Report FL 7395.3 and ACI Building Systems current installation procedure.
5. The structural capacity of supports are not considered and must be examined independently.
6. Minimum support thickness is 16 ga.