

PRODUCT EVALUATION REPORT
ACI Building Systems, LLC

SWP Panel Through Fastened Wall Panel over Open Framing

Florida Product Approval Number FL113828.1

Category: Structural Components

Sub-Category: Structural Wall

Compliance Method: 61G20-3.005 (1)(D)

NON-HVHZ

Product Manufacturer

ACI Building Systems, LLC
10125 Highway 6 West
Batesville, MS 38606

Engineer Evaluator

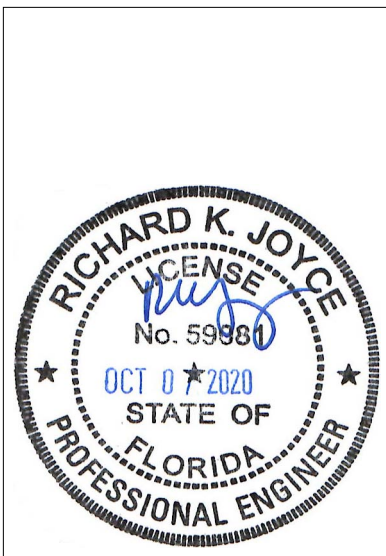
R. Keith Joyce, P.E., Florida 59081

Validator

Dennis L. Johnson, P.E., Florida 54340
Florida C.O.A. 30308

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Evaluation Report Pages 1-6 Dated 07-07-2020



Digitally signed by Richard K.
Joyce, P.E.
Date: 2020.10.07 20:52:09 -04'00'

Compliance Statement

The product described in this report has demonstrated compliance with the 2020 (7th Edition) Florida Building Code Sections 1404.5

Product Description

PBA Panel Through Fastened structural panels applied over open framing:

1. 24 Gauge (0.0227 Design Thickness) with a minimum $F_y = 50$ ksi and $F_u = 65$ ksi

Panel Material Standard

Formed steel in compliance with the 2020 (7th Edition) Florida Building Code Section 1405.2 with optional painted finish.

Panel Fasteners

Structural Panel Fasteners: SFS #10-16 Pancake Head Self Drilling Fasteners
Corrosion Resistance: Per Florida Building Code

Substrate Description

Minimum 16 gauge open framing.

Framing must be designed in accordance with the 2020 (7th Edition) Florida Building Code

Quality Assurance Entity

The manufacturer has established compliance of products in accordance with the 2020 (7th Edition) Florida Building Code as relates to Rule 61G20-3.005(3) for manufacturing under a quality assurance program audited by an approved quality assurance entity.

Insulation

Manufacturer's approved products (optional)

Fire Classification

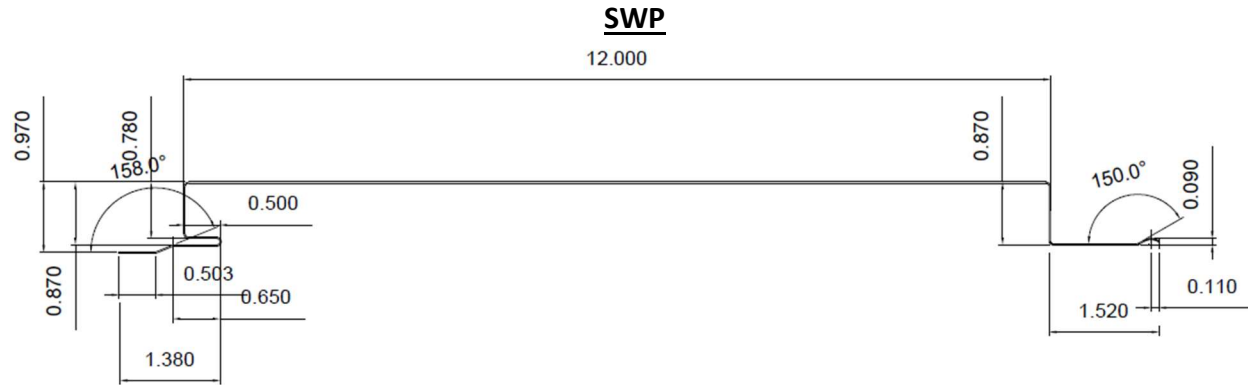
Fire Classification is outside the scope of this evaluation

Shear Diaphragm

Shear Diaphragm is outside the scope of this evaluation

Design Procedure

Based on dimensions of the structure, appropriate wind loads are determined using Chapter 16 of the 2020 (7th Edition) Florida Building Code for component roof/wall cladding. These component wind loads are compared to the allowable load listed in the span load tables of this evaluation report. The design professional shall select appropriate fastener pattern and panel gauge to reference in the construction documents for proper installation. Design of support framing must be in compliance with the 2020 (7th Edition) Florida Building Code.



SWP (24 Gauge)				Section Properties					
	Fy	Fu	Weight	Negative Bending			Positive Bending		
	Ksi	Ksi	psf	I _{xe}	S _{xe}	Maxo	I _{xe}	S _{xe}	Maxo
				In ⁴	In ³	Kip-in	In ⁴	In ³	Kip-in
24	50	65	1.04	0.0446	0.0460	1.379	0.0182	0.0299	0.895

SWP (24 Gauge)		Allowable Gravity Load					
Span Type	Span (ft)						
	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"
Single	88.0	70.4	57.8	48.7	37.3	29.5	23.9
2 Span	67.3	52.6	42.6	35.5	30.0	25.8	22.4
3-Span	71.1	55.9	45.7	38.3	32.7	28.3	24.7

Notes:

1. Allowable loads are based on uniform span length and uniformly distributed load.
2. Allowable gravity load is limited by bending, shear or deflection.
3. Allowable gravity loads are computed for a maximum total load deflection of L/60.
4. Weight of the panel must be included with gravity load combinations as appropriate.
5. This material is subject to change without notice
6. This material has been developed in accordance with the 2016 North American Specification for Cold-Formed Structural Steel Members

The engineering data contained herein is for the express use of the customers of ACI Building Systems, LLC and qualified design professionals.

SWP 24 Gauge Negative Design Wind Pressures

Purlin Spacing	Ultimate Load PSF	Allowable Load PSF
5'-0"	80.00	40.00
4'-6"		44.38
4'-0"		48.75
3'-6"		53.13
3'-0"		57.50
2'-6"		61.88
2'-0"		66.25
1'-6"		70.63
1'-0"	150.00	75.00