

Force Engineering & Testing

19530 Ramblewood Drive

Humble, Texas 77338

Phone: (281) 540-6603 FAX: (281) 540-9966

Website: www.forceengineeringtesting.com

Product Evaluation Report

FIRST CHOICE METALS

Min. 29 Ga. AG Wall Panel over open framing

Florida Product Approval # 46678.2 R1

Florida Building Code 2023

Per Rule 61G20-3

Method: 2 –B

Category: Structural Components

Subcategory: Structural Wall

Compliance Method: 61G20-3.005(2)(B)

NON HVHZ

Product Manufacturer:

First Choice Metals

1104 Paris Rd Suite 300

Mayfield, KY 42066

Engineer Evaluator:

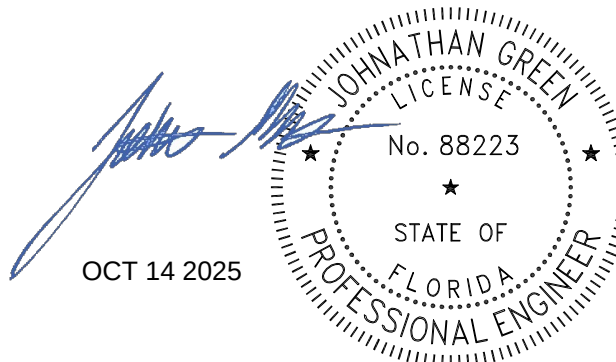
Johnathan Green, P.E. #88223

Florida Evaluation ANE ID: 12901

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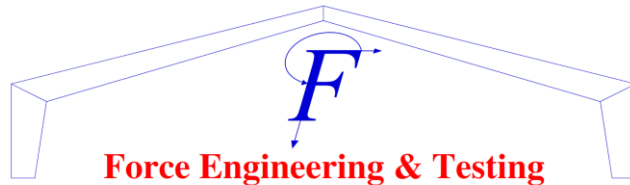
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THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY JOHNATHAN GREEN ON THE DATE ADJACENT TO THE SEAL.

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Compliance Statement:	The product as described in this report has demonstrated compliance with the Florida Building Code 2023, Sections 1709.2.
Product Description:	AG Wall Panel, Min. 29 Ga. Steel, 36" Wide, through fastened structural wall panel. Structural Application.
Panel Material/Standards:	Material: Min. 29 Ga. Steel, ASTM A792 or ASTM A653 G90 panel material shall comply with Florida Building Code 2023 Section 1405.2. Paint finish optional. Yield Strength: Min. 80.0 ksi
Panel Dimension(s):	Thickness: 0.0145" (Nominal) Width: 36" maximum coverage Rib Height: ¾" major rib at 9" O.C. Panel Rollformer: MRS Metal Rollforming Systems
Panel Fastener:	#12-14 x 1 ¼" MetalGrip Cupped Head SD3 w/ EPDM washing or approved Corrosion Resistance: Per Florida Building Code 2023, Section 1507.4.4.
Substrate Description:	Minimum 18 Ga. Grade 50 or thicker Steel Framing. Framing must be designed in accordance w/ Florida Building Code 2023.

Allowable Design Pressures:

Table "A"

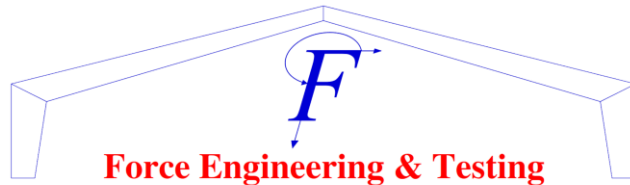
Maximum Allowable Design Pressure:	-28.6 psf	+26.0 psf	-93.7 psf	+158.7 psf
Panel Fastener Pattern:	9"-9"-9"-6"-3"	9"-9"-9"-6"-3"	9"-9"-9"-6"-3"	9"-9"-9"-6"-3"
Panel Fastener Pattern Spacing:	5'-0" O.C.	5'-0" O.C.	2'-0" O.C.	2'-0" O.C.

*Design Pressure includes a Safety Factor = 2.0

*Interpolation may be used between spacing.



Code Compliance:	The product described herein has demonstrated compliance with The Florida Building Code 2023, Section 1709.2.
Evaluation Report Scope:	The product evaluation is limited to compliance with the structural wind load requirements of the Florida Building Code 2023, as relates to Rule 61G20-3.
Performance Standards:	The product described herein has demonstrated compliance with: ▪ ASTM E 1592-05 (2017) Test method for structural performance of sheet metal roof and siding systems by uniform static air pressure difference.
Reference Data:	1. ASTM E 1592-05 (2017) Test Force Engineering & Testing (FBC Organization # TST-5328) Report No. 797-0089T-25 2. Certificate of Independence By Johnathan Green, P.E. (No. 88223) @ Force Engineering & Testing (FBC Organization # ANE ID: 12901)
Quality Assurance Entity:	The manufacturer has established compliance of wall panel products in accordance with the Florida Building Code and Rule 61G20-3.005 (3) for manufacturing under a quality assurance program audited by an approved quality assurance entity.
Installation:	Install per manufacturer's recommended details.
Insulation:	Manufacturer's approved product (Optional)
Shear Diaphragm:	Shear diaphragm values are outside the scope of this report.
Design Procedure:	Based on the dimensions of the structure, appropriate wind loads are determined using Chapter 16 of the Florida Building Code 2023 for wall cladding wind loads. These component wind loads for wall cladding are compared to the allowable pressure listed above. The design professional shall select the appropriate erection details to reference in his drawings for proper fastener attachment to his structure and analyze the panel fasteners for pullout and pullover. Support framing must be in compliance with Florida Building Code 2023 Chapter 22 for steel, and Chapter 16 for structural loading.



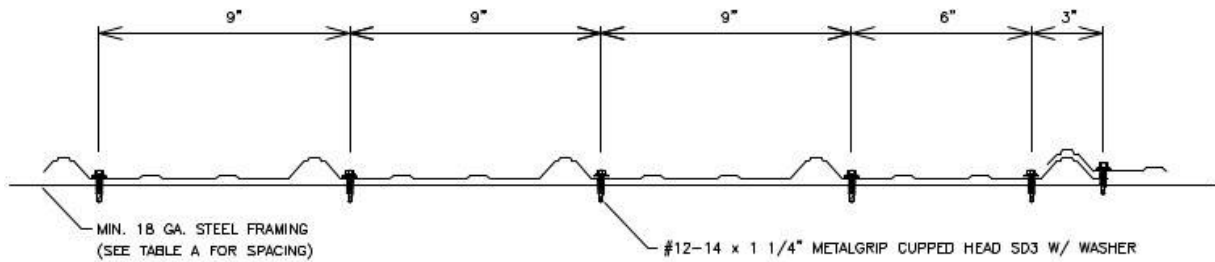
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PANEL FASTENER PATTERN AT INTERIOR SUPPORTS



PANEL FASTENER PATTERN AT PANEL ENDS

