



Product Evaluation Report
WHIRLWIND STEEL BUILDINGS, INC.

24 Ga. Fluted 16" Wall Panel over open framing

Florida Product Approval # FL 17702.4 R7

Florida Building Code 2026

Per Rule 61G20-3

Method: 2 –B

Category: Structural Components

Subcategory: Structural Wall

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

NON HVHZ

Product Manufacturer:

Whirlwind Steel Buildings, Inc.

8234 Hansen Road

Houston, TX 77075

Engineer Evaluator:

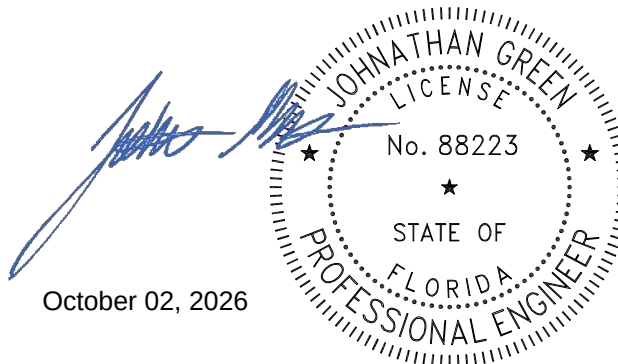
Johnathan Green, P.E. #88223

Florida Evaluation ANE ID: 12901

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Compliance Statement: The product as described in this report has demonstrated compliance with the Florida Building Code 2026, Sections 1709.2.

Product Description: Fluted 16" Wall Panel, 24 Ga. Steel, 16" Wide, through fastened structural wall panel. Structural Application.

Panel Material/Standards: Material: 24 Ga. Steel, panel material shall comply with Florida Building Code 2026 Section 1405.2.
Yield Strength: Min. 50.0 ksi

Panel Dimension(s): Thickness: 0.0235" min.
Width: 16" maximum coverage
Panel Height: 1.8" interlocking seam

Panel Fasteners: Panel Support Fastener: #12-14 x 1" HWH SD no washer or approved equal
Panel Sidelap/Joint fastener at supports: ¼-14 x 7/8" HWH SD w/ sealing washer at each support. For use on Table B only.
Corrosion Resistance: Per Florida Building Code 2026 and Section 1711 for installations within 3000 ft. of a saltwater coastline.

Substrate Description: Min. 16 Ga. Steel Framing. Framing must be designed in accordance w/ Florida Building Code 2026.

Allowable Design Pressures:

Table "A"

Maximum Allowable Design Pressures:	+225.0 psf -13.0 psf	+100.0 psf -13.0 psf	+56.0 psf -13.0 psf	+36.0 psf -13.0 psf	+25.0 psf -13.0 psf
Panel Span:	2'-0"	3'-0"	4'-0"	5'-0"	6'-0"
Panel Support Fastener:	(1) #12-14 HWH SD	(1) #12-14 HWH SD	(1) #12-14 HWH SD	(1) #12-14 HWH SD	(1) #12-14 HWH SD
Panel Sidelap/Joint Fastener:	None	None	None	None	None

*Design Pressure includes a Safety Factor = 2.0.

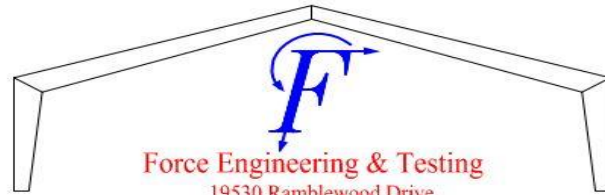
Table "B"

Maximum Allowable Design Pressures:	+225.0 psf -67.6 psf	+100.0 psf -63.7 psf	+56.0 psf -59.8 psf	+36.0 psf -48.1 psf	+25.0 psf -36.4 psf
Panel Span:	2'-0"	3'-0"	4'-0"	5'-0"	6'-0"
Panel Support Fastener:	(2) #12-14 HWH SD	(2) #12-14 HWH SD	(2) #12-14 HWH SD	(2) #12-14 HWH SD	(2) #12-14 HWH SD
Panel Sidelap/Joint Fastener:	(1) ¼ -14 HWH SD	(1) ¼ -14 HWH SD	(1) ¼ -14 HWH SD	(1) ¼ -14 HWH SD	(1) ¼ -14 HWH SD

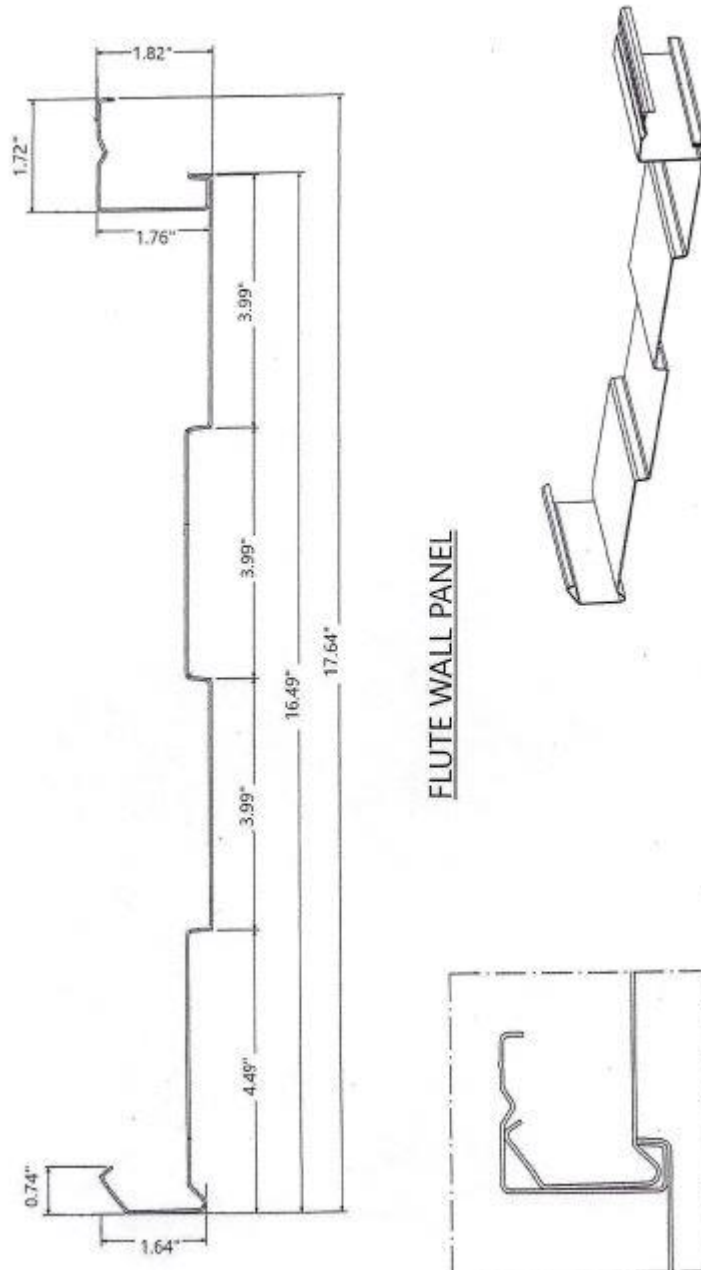
*Design Pressure includes a Safety Factor = 2.0.

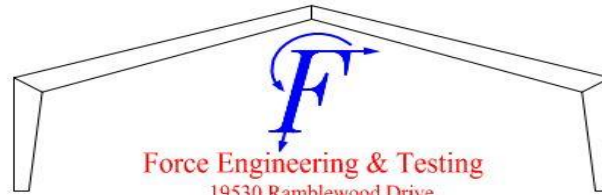


Code Compliance:	The product described herein has demonstrated compliance with The Florida Building Code 2026, Section 1709.2.
Evaluation Report Scope:	The product evaluation is limited to compliance with the structural wind load requirements of the Florida Building Code 2026, as relates to Rule 61G20-3.
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) Farabaugh Engineering & Testing, Inc. Report No. T-205-24 2. Fluted Panel Section Properties and Positive Pressure Calculation by David Wall, P.E. Whirlwind Steel Building, Inc. 3. 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 roof 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)
Roof Panel Fire Classification:	Fire classification is not part of this acceptance.
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 2026 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 2026 Chapter 22 for steel, and Chapter 16 for structural loading.



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FLUTED 16" WALL PANEL

PANEL ATTACHMENT

