Force Engineering & Testing
19530 Ramblewood Drive
Humble, Texas 77338
Phone: (281) 540-6603 FAX: (281) 540-9966
Website: www.forceengineeringtesting.com

Product Evaluation Report

WHIRLWIND STEEL BUILDINGS, INC.

26 Ga. 7.2 Wall Panel over open framing

Florida Product Approval # FL 17702.2 R5

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:
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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OCT 21 2024

JOHNATHAN GREEN
LICENSE
No. 88223
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

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: 7.2 Wall Panel, 26 Ga. Steel, 36" Wide, through fastened structural wall panel. Structural Application.

Panel Material/Standards: Material: 26 Ga. Steel, panel material shall comply with Florida Building Code 2023 Section 1405.2.
Yield Strength: Min. 80.0 ksi

Panel Dimension(s):

Thickness:	0.0185" min.
Width:	36" maximum coverage
Rib Height:	1 ½" major rib at 7.2" O.C.

Panel Fastener: #12-14 x 1-1/4" Ultimate HWH SD with sealing washer or approved equal at 7.2"-7.2"-7.2"-7.2" fastener pattern. Panel side laps fastened together w/ ¼-14 x 7/8" Ultimate HWH SD w/ sealing washer at 20" O.C.
Corrosion Resistance: Per Florida Building Code 2023.

Substrate Description: Min. 16 Ga. Steel Framing. Framing must be designed in accordance w/ Florida Building Code 2023.

Allowable Design Pressures:

Table "A"

Maximum Design Pressure:	-85.0 psf	+85.0 psf
Fastener Pattern:	7.2"-7.2"-7.2"-7.2"	7.2"-7.2"-7.2"-7.2"
Fastener Spacing:	5'-0" O.C.	5'-0" O.C.

*Design Pressure includes a Safety Factor = 2.0.
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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 1592-01
   Force Engineering & Testing, Inc. (FBC Organization # TST-5328)
   Report No. 14-0298T-06A, B.
2. Certificate of Independence
   By Johnathan Green, P.E. (No. 88223) @ Force Engineering & Testing
   (FBC Organization # ANE ID: 12901)

Test Standard Equivalency: 1. The ASTM E 1592-01 test standard is equivalent to the ASTM E 1592-05 (2017) test standard.

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 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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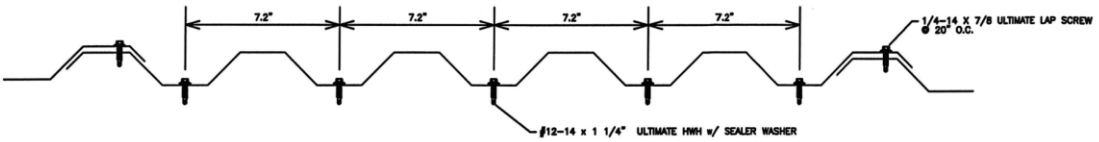
26 GA. 7.2 PANEL FASTENER PATTERN