

Force Engineering & Testing

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Product Evaluation Report
OVERHOLT ENTERPRISES OF FLORIDA, LLC

***Minimum 29 Ga. Tuff Rib Roof Panel over 1x4 Wood Purlins over 15/32”
Plywood***

Florida Product Approval # 16649.2 R7

Florida Building Code 2023

Per Rule 61G20-3

Method: 1 –D

Category: Roofing

Subcategory: Metal Roofing

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

NON HVHZ

Product Manufacturer:

Overholt Enterprises of Florida, LLC.

6192 SW Hwy 72

Arcadia, FL 34266

Engineer Evaluator:

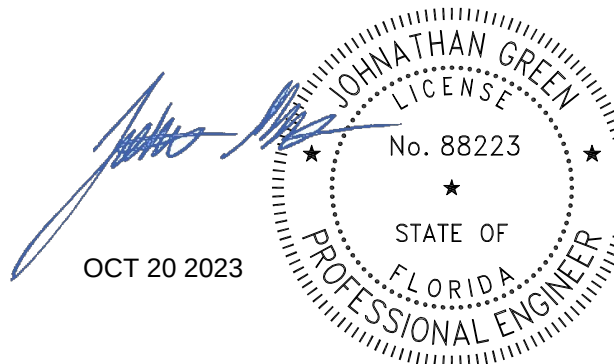
Johnathan Green, P.E. #88223

Florida Evaluation ANE ID: 12901

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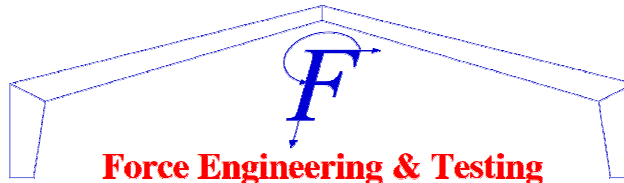
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JOHNATHAN GREEN ON
THE DATE ADJACENT TO
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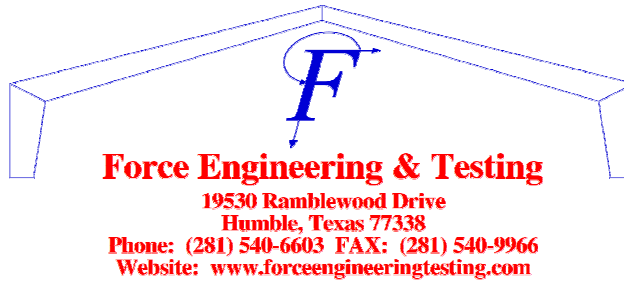
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Compliance Statement:	The product as described in this report has demonstrated compliance with the Florida Building Code 2023, Sections 1504.3.2, 1504.7.
Product Description:	Tuff Rib Roof Panel, Minimum 29 Ga. Steel, 36" Wide, through fastened roof panel over 1x4 wood purlins over one layer of asphalt shingles (optional) over Minimum 15/32" Plywood decking. Non-Structural Application.
Panel Material/Standards:	Material: Minimum 29 Ga. Steel conforming to Florida Building Code 2023 Section 1507.4.3. Yield Strength: Minimum 80.0 ksi Corrosion Resistance: Panel Material shall comply with Florida Building Code 2023, Section 1507.4.3.
Panel Dimension(s):	Thickness: 0.0145" Minimum Width: 36" Max. Rib Height: ¾" major rib at 9" O.C. Panel Rollformer: MRS Metal Rollforming Systems
Panel Fastener:	#9-15 x 1-1/2" HWH Woodgrip with sealing washing or approved equal #10 x 1-1/2" HWH HiLo Woodgrip with sealing washing or approved equal Corrosion Resistance: Per Florida Building Code 2023, Section 1507.4.4.
Substrate Description:	Minimum 1x4 No. 2 SYP wood purlins over maximum one layer of asphalt shingles/felt paper (optional) over Minimum 15/32" thick plywood over wood framing at maximum 24" O.C. 1x4 Wood Purlin Attachment Type 1: The 1x4 wood purlins shall be fastened to the wood framing with (2) 9x3" Deck Screws at a maximum 24" O.C. 1x4 Wood Purlin Attachment Type 2: The 1x4 wood purlins shall be fastened to the plywood with two rows of 8d x 1 ½" (8d x 2 ½" must be used if installing 1x4 wood purlins over existing shingles/felt/plywood) ring shank nails at 8" O.C. staggered. Design of 1x4 wood purlins, plywood and plywood supports are outside the scope of this evaluation. Substrate must be designed in accordance w/ Florida Building Code.
Allowable Design Uplift Pressures:	

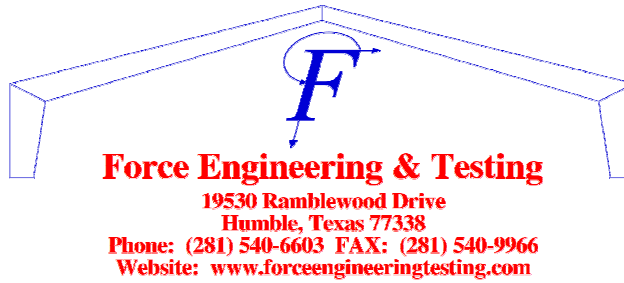
Table "A"

Maximum Allowable Total Uplift Design Pressure:	56.0 psf	131.0 psf	71.0 psf
Panel Fastener:	#9-15 x 1 ½"	#9-15 x 1 ½"	#10 x 1 ½" HiLo
Panel Fastener Pattern:	Type 1	Type 2	Type 1
Fastener Pattern:	9"-9"-9"-9"	6"-3"-6"-3"-6"-3"-6"	9"-9"-9"-9"
Fastener Pattern / 1x4 Wood Purlin Spacing:	24" O.C.	12" O.C.	24" O.C.
1x4 Wood Purlin Attachment Type:	Type 1	Type 1	Type 2

*Design Pressure includes a Safety Factor = 2.0.



Code Compliance:	The product described herein has demonstrated compliance with The Florida Building Code 2023, Section 1504.3.2, 1504.7.
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: ▪ UL 580-06 - Test for Uplift Resistance of Roof Assemblies ▪ UL 1897-2015 - Uplift Test for Roof Covering Systems ▪ FM 4471-92 - Foot Traffic Resistance Test
Reference Data:	1. UL 580-06 / 1897-04 Uplift Test Force Engineering & Testing, Inc. (FBC Organization # TST-5328) Report No. 517-0175T-13 2. UL 580-06 / 1897-15 Uplift Test Intertek Report No. H2623.01-450-44 3. FM 4471-10 - Foot Traffic Resistance Test Force Engineering & Testing, Inc. (FBC Organization # TST-5328) Report No. 517-0244T-13 4. Certificate of Independence By Johnathan Green, P.E. #88223
Test Standard Equivalency:	1. The UL 1897-04 test standard is equivalent to the UL 1897-2015 test standard. 2. The FM 4471-10, Foot Traffic Resistance test standard is equivalent to the FM 4471-92, Foot Traffic Resistance 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.
Minimum Slope Range:	Minimum Slope shall comply with Florida Building Code 2023, including Section 1507.4.2 and in accordance with Manufacturers recommendations. For slopes less than 3:12, lap sealant must be used in the panel side laps.
Installation:	Install per manufacturer's recommended details.
Underlayment:	Per Florida Building Code 2023, Section 1507.1 and manufacturer's installation guidelines.



Roof Panel Fire Classification:

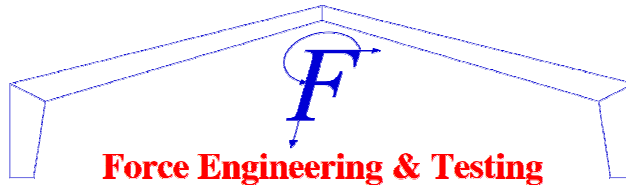
Fire classification is not part of this evaluation.

Shear Diaphragm:

Shear diaphragm values are outside the scope of this report.

Design Procedure:

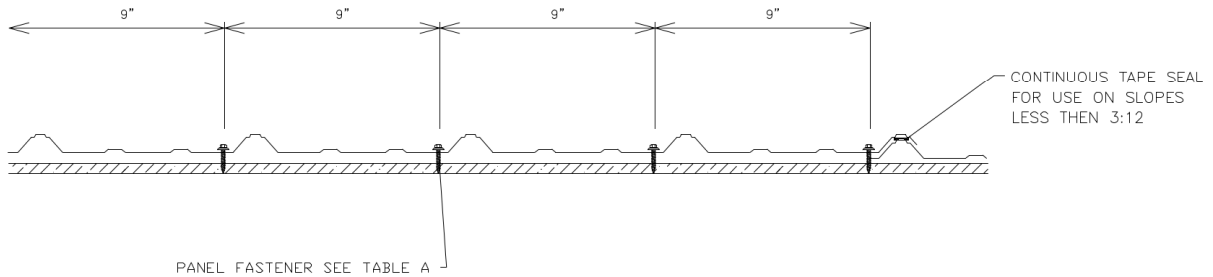
Based on the dimensions of the structure, appropriate wind loads are determined using Chapter 16 of the Florida Building Code 2023 for roof cladding wind loads. These component wind loads for roof cladding are compared to the allowable pressure listed above. The design professional shall select the appropriate 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, Chapter 23 for wood and Chapter 16 for structural loading.



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TYPE 1 9"-9"-9"-9" FASTENER PATTERN (SEE TABLE A FOR SPACING)



TYPE 2 6"-3"-6"-3"-6"-3"-6" FASTENER PATTERN (SEE TABLE A FOR SPACING)

