



Product Evaluation Report
ROOFHUGGER

238T 24 Ga. 18" Wide over Roof Hugger Retrofit Framing Systems

Florida Product Approval # 17626.1 R3

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:

Roofhugger

P.O. Box 1027

Odessa, Florida 33556

Engineer Evaluator:

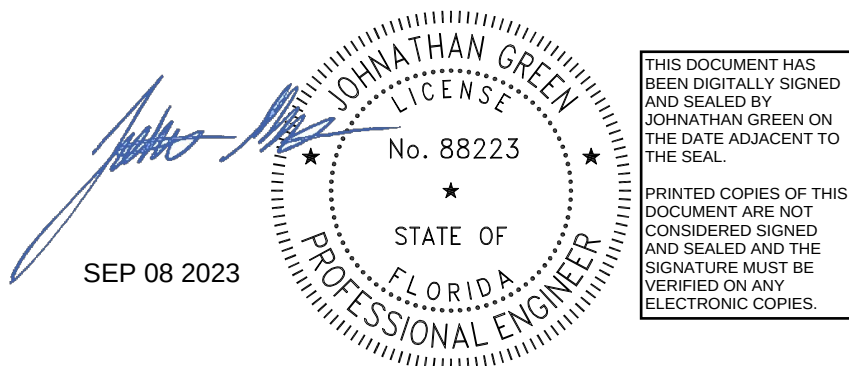
Johnathan Green, P.E. # 88223

Florida Evaluation ANE ID: 1920

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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: Retro Sub-Purlin Roof System for the purpose of re-roofing over an existing roof without removing existing panels. 238T roof panel over Roof Hugger over existing 2" Standing Seam roof panel.

Existing Roof Panel: Min. 24 Ga. Standing Seam panel, 16" wide, 2" tall standing seam rib.
Roof Hugger: Standing seam roof hugger, Min. 16 Ga. steel, 2.75" tall with 3" wide pre-punched holes at 16" O.C.
New Roof Panel: McElroy Metal, Inc. 238T T panel standing seam roof panel, 24 Ga. Steel, 18" wide, 24 Ga. Steel Seam Cap.

Panel Material/Standards: Material: Steel conforming to Florida Building Code 2023 Section 1507.4.3. Paint finish optional.
Existing Panel: Min. 24 Ga. steel, 0.024" thick
238T: Min. 24 Ga. steel, 0.024" thick
Roof Hugger: Min. 16 Ga. steel, 0.060" thick
Corrosion Resistance: Panel Material shall comply with Florida Building Code 2023, Section 1507.4.3.

Roof Panel Clips: Existing Roof Panel: Low clip
238T Roof Panel: 24 Ga. Steel, 0.024" thick Continuous Clips
Corrosion Resistance: Per Florida Building Code 2023 Section 1506.7.

Panel/Clip Fastener: Corrosion Resistance: Per Florida Building Code 2023, Section 1507.4.4.

Substrate Description: Min. 22 Ga. steel deck, Min. $F_y = 40$ ksi. Design of steel deck and steel deck supports are outside the scope of this evaluation. Substrate must be designed in accordance w/ Florida Building Code 2023.

Allowable Design Uplift Pressures:

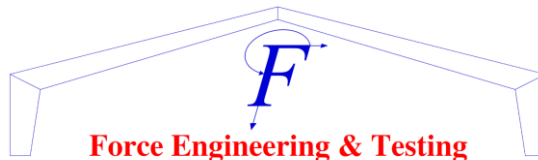
Table "A"

Maximum Design Pressure:	-123.5 psf	-161.0 psf
Roof Hugger Spacing:	4'-0" O.C.	2'-0" O.C.
Roof Hugger # of Fasteners	(3) #14-13 per 16"	(3) #14-13 per 16"

*Design Pressure includes a Safety Factor = 2.0.



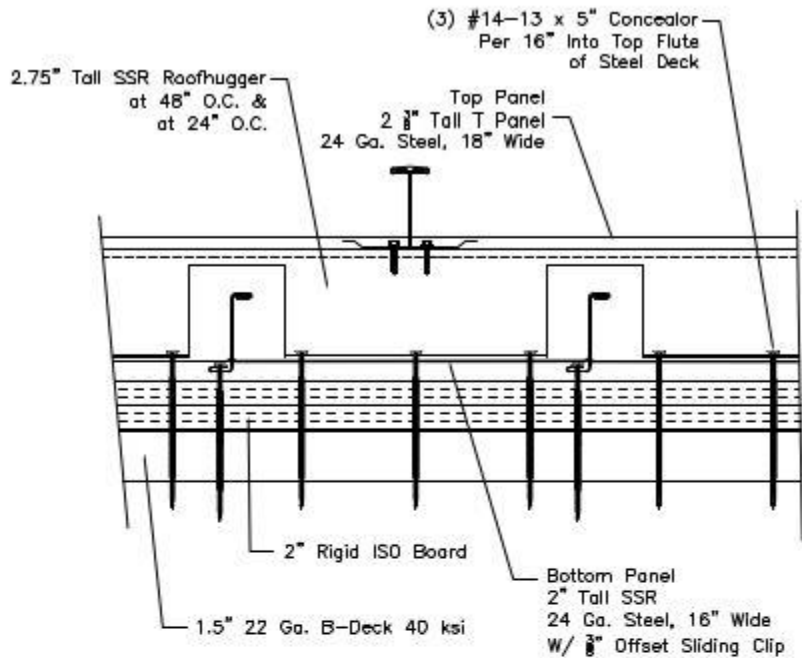
Code Compliance:	The product described herein has demonstrated compliance with The Florida Building Code 2023, Section 1504.3.2, 1504.7.
Evaluation Report Scope:	The product evaluation is limited to compliance with the structural wind load requirements of the Florida Building Code 2023, as relates to 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
Reference Data:	1. UL 580-06 / 1897-04 Uplift Test Force Engineering & Testing, Inc. (FBC Organization # TST-5328) Report No. 193-0269T-14 2. Certificate of Independence By Johnathan Green, P.E. (No. 88223) @ Force Engineering & Testing (FBC Organization # ANE ID: 1920)
Test Standard Equivalency:	The UL 1897-04 test standard is equivalent to the UL 1897-2015 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.
Installation:	Install per manufacturer's recommended details.
Underlayment:	Per Florida Building Code 2023 and manufacturer's installation guidelines.
Insulation:	Manufacturer's approved product (Optional)
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. Support framing must be in compliance with Florida Building Code 2023 Chapter 22 for steel, and Chapter 16 for structural loading.



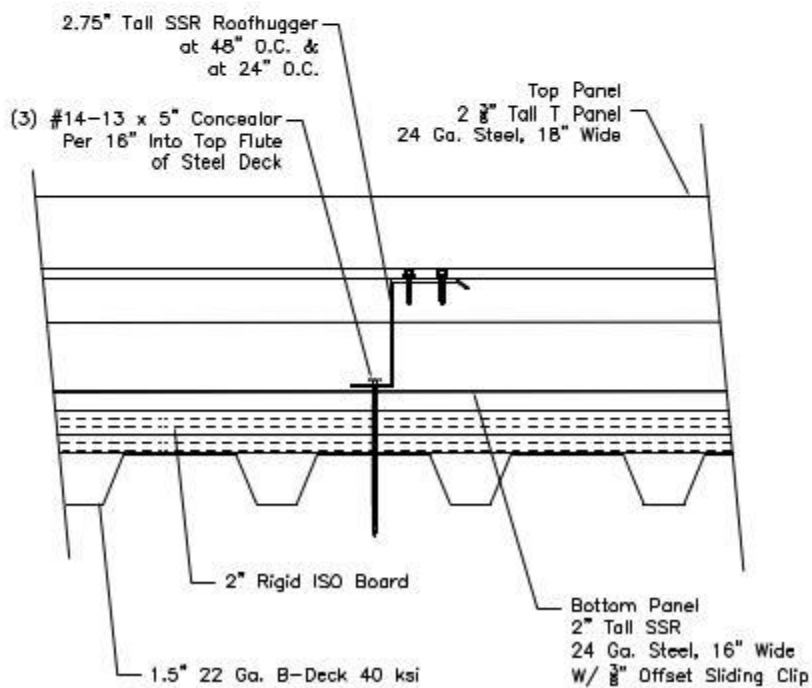
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DETAILS



SECTION A-A



SECTION B-B