

Force Engineering & Testing

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

Product Evaluation Report
SUNSHINE METAL SUPPLY, INC.

Ridge Vent System over 15/32" Plywood

Florida Product Approval # 22245.1 R2

Florida Building Code 2020

Per Rule 61G20-3

Method: 2 - B

Category: Roofing

Subcategory: Roofing Accessories that are an Integral Part of the Roofing System

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

NON HVHZ

Product Manufacturer:

Sunshine Metal Supply, Inc.

719 Cattleman Road

Sarasota, Florida 34232

Engineer Evaluator:

Johnathan Green, P.E. #88223

Florida Evaluation ANE ID: 12901

Validator:

Brian Jaks P.E. #70159

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Compliance Statement: The product as described in this report has demonstrated compliance with the Florida Building Code 2020, Sections 1709.2.

Product Description: Ridge Vent System for metal roof panels over minimum 15/32" APA Plywood decking.

Product Material/Standards: Ridge Cap: Minimum 26 Ga. (0.185") Grade 50
ASTM A792 AZ50, ASTM A653 G-90 or ASTM A755.

Perforated Ridge Channel #1: Minimum 22 Ga. (0.29") Grade 50
ASTM A792 AZ50, ASTM A653 G-90 or ASTM A755. 1/8" diameter perforations at 3/16" spacing.

Perforated Ridge Channel #2: Minimum 22 Ga. (0.29") Grade 50
ASTM A792 AZ50, ASTM A653 G-90 or ASTM A755. 1/8" diameter perforations at 3/16" spacing.

Fasteners: Ridge Cap to Perforated Ridge Channel #1: (1) 1/8" Rivet at 12" O.C.
Ridge Cap to Perforated Ridge Channel #2: (1) 1/8" Rivet at 16" O.C.

Perforated Ridge Channel #1 to plywood: (1) #12-11x1" Pancake Type A at 12" O.C.
Perforated Ridge Channel #2 to plywood: (2) #12-11x1" Pancake Type A at 16" O.C. (3/4" apart)
1/4" minimum penetration through plywood.
All Fasteners shall be Corrosion Resistance: Per Florida Building Code 2020, Section 1507.4.4.

Substrate Description: Minimum 15/32" thick, APA Rated plywood over supports at maximum 24" O.C.
Design of plywood and plywood supports are outside the scope of this evaluation. Substrate must be designed in accordance w/ Florida Building Code 2020.

Roof Panel: Maximum 1 3/4" tall FBC approved roof panel.

Design Pressures: Maximum Design pressures: +90.0 psf / -90.0 psf



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Code Compliance: The product described herein has demonstrated compliance with The Florida Building Code 2020, Section 1709.2.

Evaluation Report Scope: The product evaluation is limited to compliance with the structural wind load requirements of the Florida Building Code 2020, as relates to Rule 61G20-3.

Performance Standards: The product described herein has demonstrated compliance with:

- ASTM E 330-02 – Standard Test Method for the Structural Performance of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference.

Reference Data:

1. ASTM E330-02
Force Engineering & Testing, Inc. (FBC Organization # TST-5328)
Report No. 596-0170T-16
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 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.

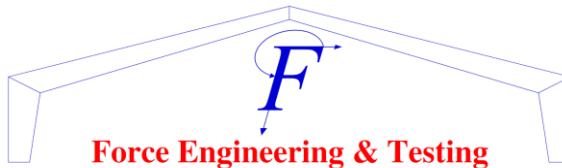
Installation: Install per manufacturer's recommended details.

Design Procedure: Based on the dimensions of the structure, appropriate wind loads are determined using Chapter 16 of the Florida Building Code 2020 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 2020 Chapter 22 for steel, Chapter 23 for wood and Chapter 16 for structural loading.



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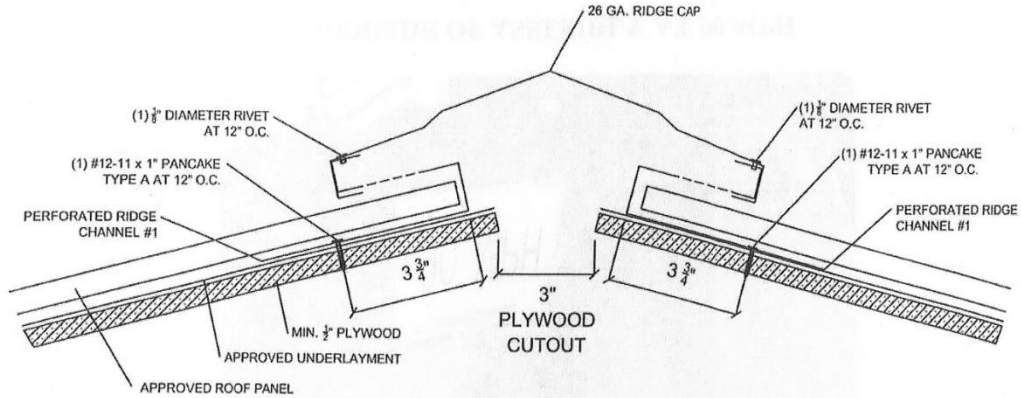


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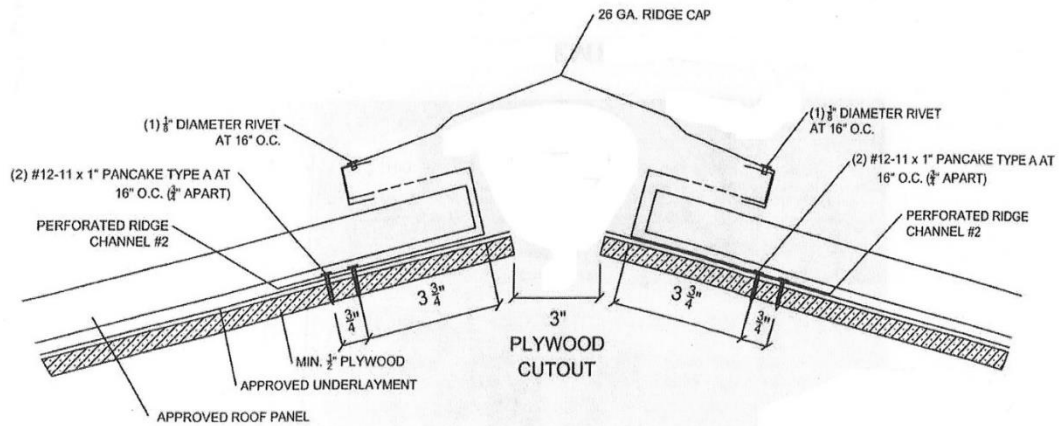
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RIDGE VENT SYSTEM WITH RIDGE CHANNEL #1



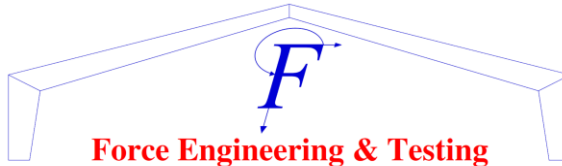
RIDGE VENT SYSTEM WITH RIDGE CHANNEL #2



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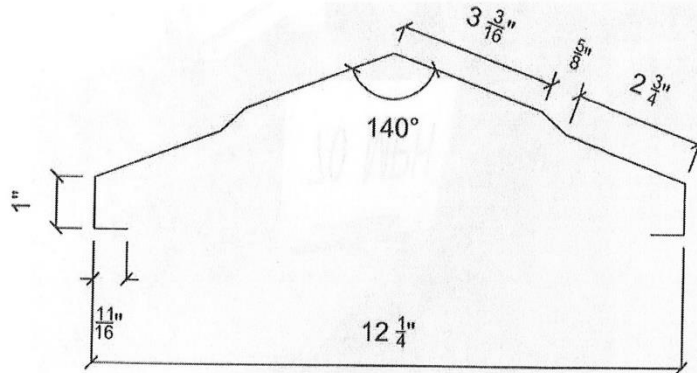


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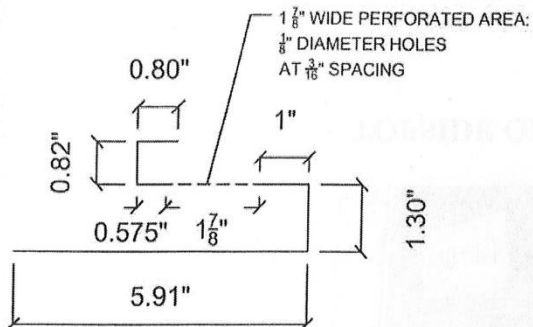
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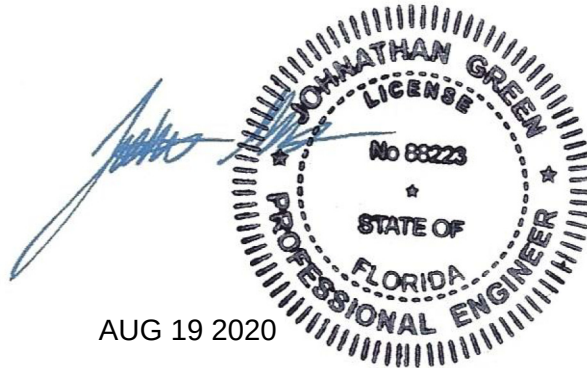
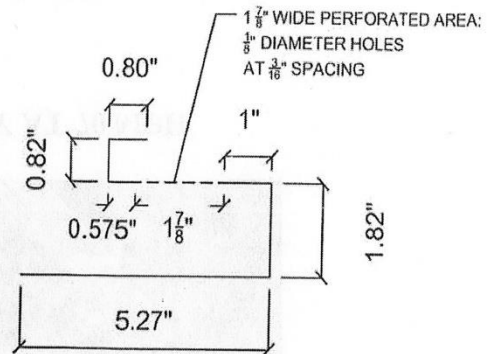
26 GA. STEEL RIDGE CAP



22 GA. STEEL PERFORATED RIDGE CHANNEL #1



22 GA. STEEL PERFORATED RIDGE CHANNEL #2



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