

GARRISON DESIGN & CONSTRUCTION

FL# 4599 26 GA VERSA PANEL OVER 1X4 WOOD PURLINS

Florida Building Code 2020,

61G20-3 Method: 1-D

Category: Roofing

Subcategory: Roof Deck Compliance

Method: Rule 61G20-3 NON HVHZ

Product Manufacturer:

Garrison Design & Construction

, 5158 Woodlane Circle ,

Tallahassee, FL 32303

Engineer Evaluator:

Locke Bowden, P.E., FL#49704

, 9450 Alysburry P.E .

Montgomery, AL 36117



Compliance Statement:

Product described in this report demonstrated compliance with the Florida Building Code (FBC)2020

Certificate of Independence:

Locke Bowden, P.E., does not have nor will acquire financial interest in any company manufacturing products under this report. Locke Bowden, P.E., is not operated or controlled by any company manufacturing or distributing products under this report.

Product Description: Versa Panel Roof Panel, Min. 26 Ga. Steel, 36" Wide, through fastened roof panel over 1X4 wood purlins. Structural Application.

Panel Material/Standards: Material: Min. 26Ga. Steel compliant with FBC 2020, Section 1507.4.3
Yield Strength: Min. 80.0 ksi.
Corrosion Resistance: Panel material shall comply with FBC 2020 , Section 1507.4.3.

Panel Dimension(s): Thickness: 0.019" min.
Width: 36"
Rib Height: ¼" major rib at 9" O.C.
Panel Rollformer: MRS Metal Rollforming Systems

Panel Fastener: #9 – 15 X 1-1/2" HWH Woodgrip with sealing washer or approved equal ¼" minimum Penetration, Corrosion resistant FBC 2020 Section 1506.6, 1507

Substrate Description: Min. 1X4 No. 2 SYP Wood Purlins fastened to supports at 24" O.C. Max. Design of 1X4 wood purlins and supports are outside the scope of this evaluation. Must be designed in accordance with FBC 2020

Wind Zone Speeds: 120, 130, 140 <20' HT	Slope 2/12" – 6/12"	Gable or Hip Roof <i>Does not include overhang</i>
Exp. C	Risk Category II	Enclosed Building

Design Uplift Pressures: Table "A"

Maximum Total Uplift Design Pressure*:	-76.8 PSF
Panel Slot Fastener Spacing:	24" o.c.
Fastener Pattern: Zone 1, 2, 3	9", 9", 9", 9"

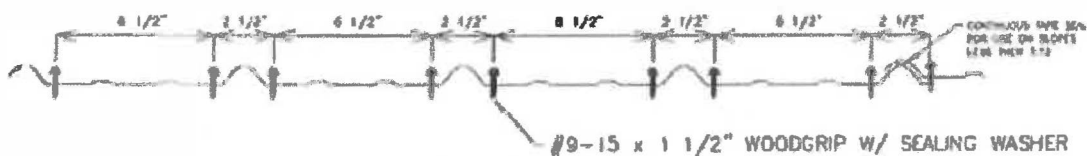
*Design Pressure Includes a Safety Factor = 2.0

MIN. 26 GA. VERSA PANEL OVER 1x4 WOOD PURLINS

FASTENER PATTERN AT 24" O.C.



PANEL END FASTENER PATTERN



Code Compliance: Product described demonstrated compliance with FBC Code 2020

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

Performance Standards: Product described herein has demonstrated compliance with:
UL 580-06 – Test for Uplift Resistance of Roof Assemblies
UL 1897-12– Uplift Test for Roof Covering Systems

Reference Data: UL 580-06 / 1897-12 Uplift Test- Force Engineering & Testing, Inc. (FBC Organization # TST-5328) Report No. 137-0045T-06B, Dated 12/12/2006

Test Standard Equivalency: 1. *The UL 580-94 test standard is equivalent to the UL 580-06 test standard.*
2. *The UL 1897-98, 04 test standard is equivalent to the UL 1897-12 test standard.*

Quality Assurance Entity: The manufacturer established compliance of roof panel product in accordance with the Florida Building Code and Rule 61G20-3 for manufacturing under a quality assurance program audited by an approved quality assurance entity.

Slope Range: Slopes less than 2:12 require waterproof peel and stick over entire wood substrate.

Installation: Install per manufacturer's recommended details.

Underlayment: Per Manufacturer's installation guidelines per Florida Building Code 2020.

Roof Panel Fire Classification: Fire classification is not part of this acceptance.

Shear Diaphragm: Shear diaphragm values are outside the scope of this report.

Compliance Statement: PRODUCT LISTED HEREIN, IS COMPLIANT FBC 2020 and ASCE 7-2016