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GULF COAST SUPPLY & M

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08-14-2012

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MIN. 26 GA. TUFF RIB ROOF PANEL LOAD TABLE OVER 15/32 PLYWOOD

GULF COAST
SUPPLY & MFG.,
LLC

Buildings having a Roof Mean Height $\leq$ 20'-0"; Roof Slope: 2"/12" - 6"/12" Gable or Hip Roof
Wind Speeds 130-160 mph, Exp C, Risk Category II, Enclosed Bldg. based on FLORIDA BUILDING CODE 2010

MIN. 26 GA. TUFF RIB PANEL FASTENER SPACING						
ZONE	FASTENER	SUBSTRATE	WIND SPEED ZONE			
			130	140	150	160
			ON CENTER SPACING	ON CENTER SPACING	ON CENTER SPACING	ON CENTER SPACING
ZONE 1	#9-15-1-1/2"	15/32" PLYWOOD	24" TYPE 1	24" TYPE 1	24" TYPE 1	24" TYPE 1
ZONE 2	#9-15-1-1/2"	15/32" PLYWOOD	24" TYPE 1	24" TYPE 1	24" TYPE 1	24" TYPE 2
ZONE 3	#9-15-1-1/2"	15/32" PLYWOOD	24" TYPE 2	24" TYPE 2	24" TYPE 2	24" TYPE 2

PANEL DESCRIPTION: MIN. 26 GA. GRADE 80, 36" COVERAGE, 3/4" TALL

PANEL ROLLFORMER: MRS METAL ROOFING SYSTEMS

PANEL FASTENER: (1) #9-15 x 1-1/2" WOODGRIP W/ SEALING WASHER

MAXIMUM ALLOWABLE PANEL UPLIFT PRESSURE: 89.25 PSF @ 24" FASTENER SPACING TYPE 1 FASTENER PATTERN, 159.25

PSF @ 24" FASTENER SPACING TYPE 2 FASTENER PATTERN BASED ON TAS 125, UL 580/UL 1897 TESTING.

PLYWOOD DECKING: MIN. 15/32" THICK. PLYWOOD MUST BE DESIGNED IN ACCORDANCE WITH FBC 2010.

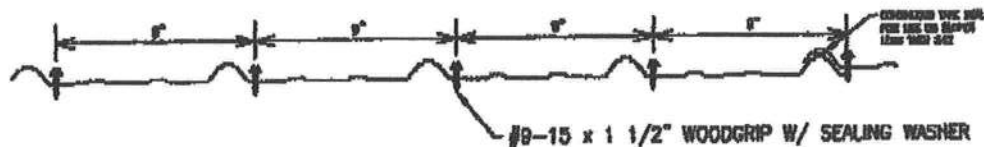
ROOF SLOPE: ON ROOF SLOPES LESS THAN 3:12, LAP SEALANT MUST BE USED IN PANEL SIDE LAPS.

LOAD TABLE BASED ON WIND PRESSURES CALCULATED PER ASCE 7-10 (K_d=0.85) MULTIPLIED BY 0.6 PER FBC 2010,

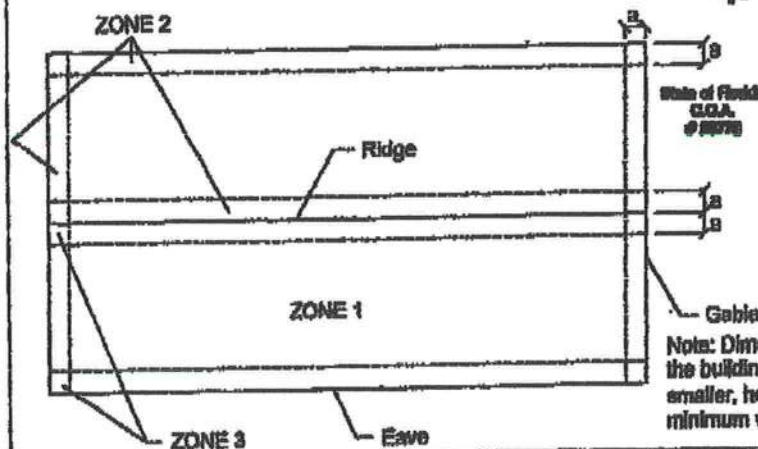
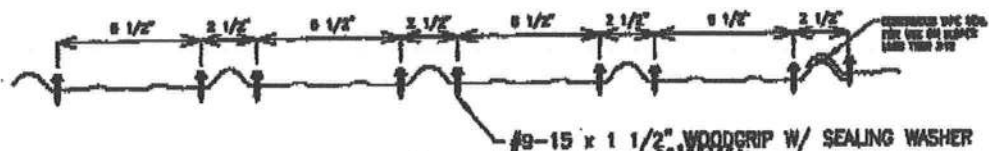
SECTION 1809.1.5.

LOAD TABLE DOES NOT INCLUDE OVERHANG ZONES

TYPE 1 FASTENER PATTERN



TYPE 2 FASTENER PATTERN



Note: Dimension (a) is defined as 10% of the minimum width of the building or 40% of the mean height of the roof, whichever is smaller, however, (a) cannot be less than either 4% of the minimum width of the building or 3 feet.

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**Design Procedure:**

Based on the dimensions of the structure, appropriate wind loads are determined using Chapter 16 of the Florida Building Code 2010 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 2010 Chapter 22 for steel, Chapter 23 for wood and Chapter 16 for structural loading.



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Code Compliance:	The product described herein has demonstrated compliance with The Florida Building Code 2010, Section 1504.3.2.
Evaluation Report Scope:	The product evaluation is limited to compliance with the structural wind load requirements of the Florida Building Code 2010, as relates to Rule 9N-3.
Performance Standards:	The product described herein has demonstrated compliance with: - UL 580-06 - Test for Uplift Resistance of Roof Assemblies - UL 1897-04 - Uplift Test for Roof Covering Systems
Reference Data:	- UL 580-94 / 1897-98 Uplift Test Force Engineering & Testing, Inc. (FBC Organization # TST-5328) Report No. 117-0062T-07A, B, Dated 02/19/2007 - Certificate of Independence By Terrence E. Wolfe, P.E. (No. 44923) @ Force Engineering & Testing, Inc. (FBC Organization # ANE ID: 1920)
Test Standard Equivalency:	- The UL 580-94 test standard is equivalent to the UL 580-06 test standard. - The UL 1897-98 test standard is equivalent to the UL 1897-04 test standard.
Quality Assurance Entity:	The manufacturer has established compliance of roof panel products in accordance with the Florida Building Code and Rule 9N-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 2010, 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 Manufacturer's installation guidelines per Florida Building Code 2010 Section 1507.4.5.
Roof Panel Fire Classification:	Fire classification is not part of this acceptance.
Shear Diaphragm:	Shear diaphragm values are outside the scope of this report.



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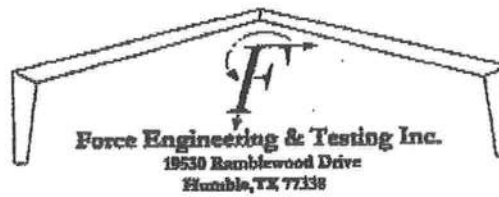
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Compliance Statement: The product as described in this report has demonstrated compliance with the Florida Building Code 2010, Sections 1504.3.2.

Product Description: Tuff Rib, $\frac{1}{8}$ " Rib Roof Panel, Min. 26 Ga. Steel, 36" Wide, through fastened roof panel over 15/32" Plywood decking, Non-Structural Application.

Panel Material/Standards: Material: Minimum 26 Ga. Steel, ASTM A792 or ASTM A653 G90 conforming to Florida Building Code 2010 Section 1507.4.3. Paint finish optional
Yield Strength: Min. 80.0 ksi
Corrosion Resistance: Panel Material shall comply with Florida Building Code 2010, Section 1507.4.3.

Panel Dimension(s): Thickness: 0.0185" min.
Width: 36"
Rib Height: $\frac{1}{8}$ " 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
 $\frac{1}{4}$ " minimum penetration through plywood
Corrosion Resistance: Per Florida Building Code 2010, Section 1506.6, 1507.4.4

Substrate Description: Min. 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. Must be designed in accordance w/ Florida Building Code 2010.

Design Uplift Pressures:

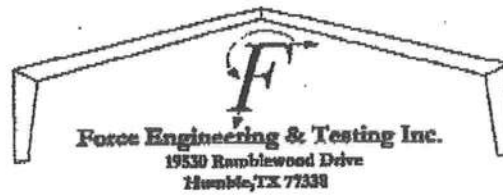
Table "A"

Maximum Total Uplift Design Pressure:	69.25 psf	159.25 psf
Fastener Patterns:	9"-9"-9"-9"	6.5"-2.5"-6.5"-2.5"- 6.5"-2.5"-6.5"
Fastener Spacing:	24" O.C.	12" O.C.

*Design Pressure Includes a Safety Factor = 2.0.

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Product Evaluation Report
GULF COAST SUPPLY & MANUFACTURING, LLC.

26 Ga. Tuff Rib Roof Panel over 15/32" Plywood

Florida Product Approval # 11651.22 R1

Florida Building Code 2010

Per Rule 9N-3

Method: 1-D

Category: Roofing

Subcategory: Metal Roofing

Compliance Method: 9N-3.005(1)(d)

NON HVHZ

Product Manufacturer:

GULF COAST SUPPLY & MANUFACTURING, LLC.
4020 S.W. 449th Street
Horseshoe Beach, Florida 32648

Engineer Evaluator:

Terrence E. Wolfe, P.E. # 44923
Florida Evaluation ANE ID: 1920

Validator:

Locke Bowden, P.E., FL #49704
9450 Alysbery Place
Montgomery, AL 36117

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