

PRODUCT APPROVAL SPECIFICATION SHEET

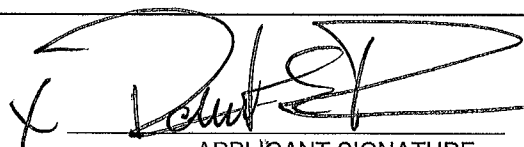
As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and approval numbers on the building components listed below if they will be utilized on the construction project for which you are applying for a building permit. We recommend you contact your local product supplier should you not know the product approval number for any of the applicable listed products.

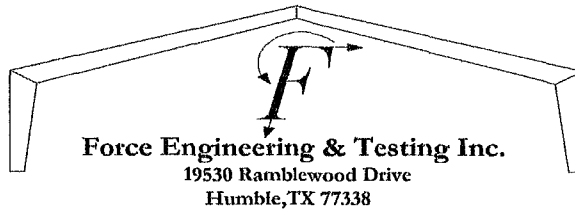
Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
1. EXTERIOR DOORS			
A. SWINGING			
B. SLIDING			
C. SECTIONAL			
D. ROLL UP			
E. AUTOMATIC			
F. OTHER			
2. WINDOWS			
A. SINGLE HUNG			
B. HORIZONTAL SLIDER			
C. CASEMENT			
D. DOUBLE HUNG			
E. FIXED			
F. AWNING			
G. PASS THROUGH			
H. PROJECTED			
I. MULLION			
J. WIND BREAKER			
K. DUAL ACTION			
L. OTHER			
3. PANEL WALL			
A. SIDING			
B. SOFFITS			
C. EIFS			
D. STOREFRONTS			
E. CURTAIN WALLS			
F. WALL LOUVER			
G. GLASS BLOCK			
H. MEMBRANE			
I. GREENHOUSE			
J. OTHER			
4. ROOFING PRODUCTS			
A. ASPHALT SHINGLES			
B. UNDERLAYMENTS	Atlas	Gouvilla Laurel	PL# 11915.1
C. ROOFING FASTENERS			
D. NON-STRUCTURAL METAL ROOFING	Tri County Metals	Ultra Rib 26ga Roof Panel	PL# 4595.1
E. WOOD SHINGLES AND SHAKES			
F. ROOFING TILES			
G. ROOFING INSULATION			
H. WATERPROOFING			
I. BUILT UP ROOFING ROOF SYSTEMS			
J. MODIFIED BITUMEN			
K. SINGLE PLY ROOF SYSTEMS			
L. ROOFING SLATE			
M. CEMENTS-ADHESIVES COATINGS			

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
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N. LIQUID APPLIED ROOF SYSTEMS			
O. ROOF TILE ADHESIVE			
P. SPRAY APPLIED POLYURETHANE ROOF			
Q. OTHER			
5. SHUTTERS			
A. ACCORDION			
B. BAHAMA			
C. STORM PANELS			
D. COLONIAL			
E. ROLL-UP			
F. EQUIPMENT			
G. OTHERS			
6. SKYLIGHTS			
A. SKYLIGHT			
B. OTHER			
7. STRUCTURAL COMPONENTS			
A. WOOD CONNECTORS/ ANCHORS			
B. TRUSS PLATES			
C. ENGINEERED LUMBER			
D. RAILING			
E. COOLERS-FREEZERS			
F. CONCRETE ADMIXTURES			
G. MATERIAL			
H. INSULATION FORMS			
I. PLASTICS			
J. DECK-ROOF			
K. WALL			
L. SHEDS			
M. OTHER			
8. NEW EXTERIOR ENVELOPE PRODUCTS			
A.			
B.			

The products listed below did not demonstrate product approval at plan review. I understand that at the time of inspection of these products, the following information must be available to the inspector on the jobsite; 1) copy of the product approval, 2) the performance characteristics which the product was tested and certified to comply with, 3) copy of the applicable manufacturers installation requirements. Further, I understand these products may have to be removed if approval cannot be demonstrated during inspection.

X  05/21/2014
 APPLICANT SIGNATURE DATE



**Product Evaluation Report
TRI COUNTY METALS**

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

Florida Product Approval # 4595.1 R2

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:

Tri County Metals

301 SE 16th Street

Trenton, Florida 32693

Engineer Evaluator:

Terrence E. Wolfe, P.E. # 44923

Florida Evaluation ANE ID: 1920

Validator:

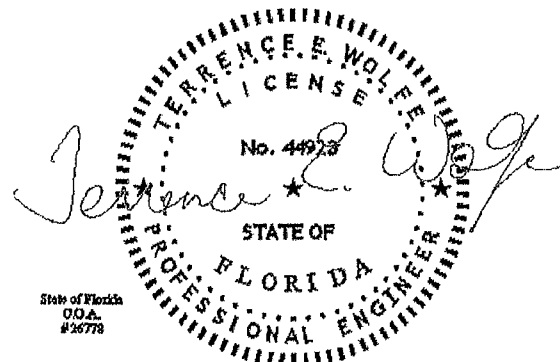
Locke Bowden, P.E., FL #49704

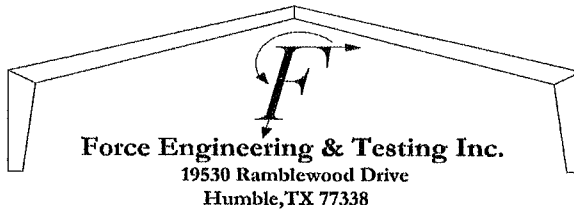
9450 Alysbury Place

Montgomery, AL 36117

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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: Ultra-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 conforming to Florida Building Code 2010 Section 1507.4.3.
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: 3/8" major rib at 9" O.C.
Panel Rollformer: MRS Metal Rollforming Systems

Panel Fastener: #10-16 x 1-1/2" HWH Woodgrip with sealing washing or approved equal 1/4" minimum penetration through plywood
Corrosion Resistance: Per Florida Building Code 2010, Section 1506.6, 1507.4.4

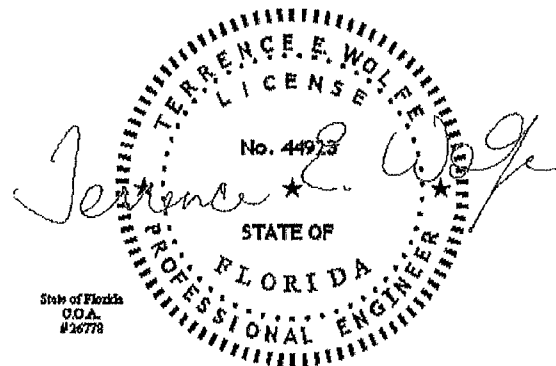
Substrate Description: Min. 15/32" thick, APA Rated plywood over supports at maximum 24" O.C. Design of plywood and plywood supports are outside the scope of this evaluation. Must be designed in accordance w/ Florida Building Code 2010.

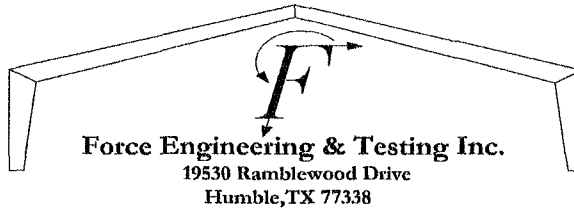
Design Uplift Pressures:

Table "A"

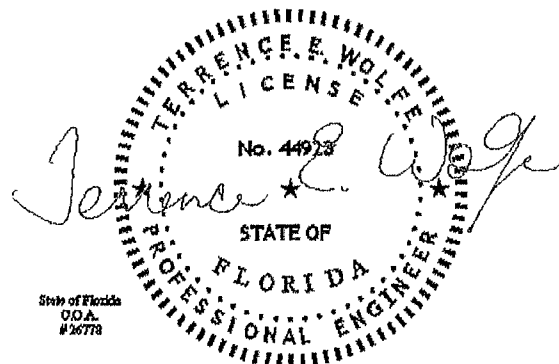
Maximum Total Uplift Design Pressure:	86.8 psf	146.0 psf
Fastener Pattern:	9"-9"-9"-9"	6.5"-2.5"-6.5"-2 5"-6.5"-2 5"-6.5"
Fastener Spacing:	24" O.C.	12" O.C.

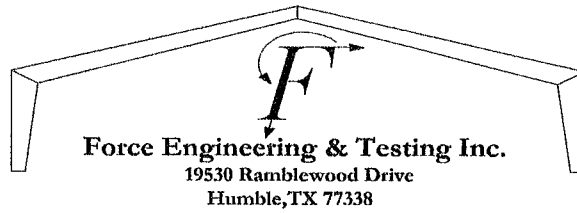
*Design Pressure includes a Safety Factor = 2.0.





- 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:**
1. UL 580-94 / 1897-98 Uplift Test
Force Engineering & Testing, Inc. (FBC Organization # TST-5328)
Report No. 136-0393T-07E, F
 2. Certificate of Independence
By Terrence E. Wolfe, P.E. (No. 44923) @ Force Engineering & Testing, Inc.
(FBC Organization # ANE ID: 1920)
- Test Standard Equivalency:**
1. The UL 580-94 test standard is equivalent to the UL 580-06 test standard.
 2. 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





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.

