

# 26 GA. AG PANEL LOAD TABLE OVER 15/32 PLYWOOD

## MID FLORIDA

Buildings having a Roof Mean Height  $\leq$  20'-0"; Roof Slope: 2"/12" - 12"/12"  
Wind Speeds 110-140 mph, Exp C, I = 1.0, based on FLORIDA BUILDING CODE 2004

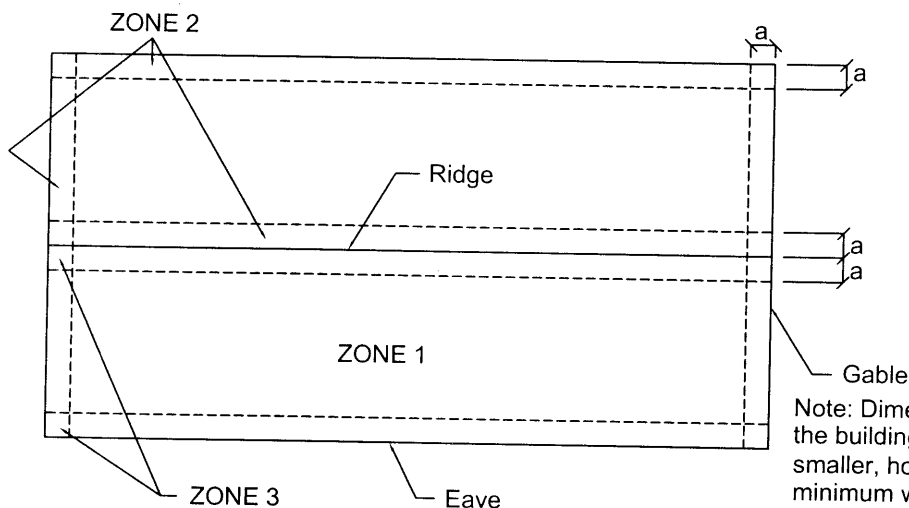
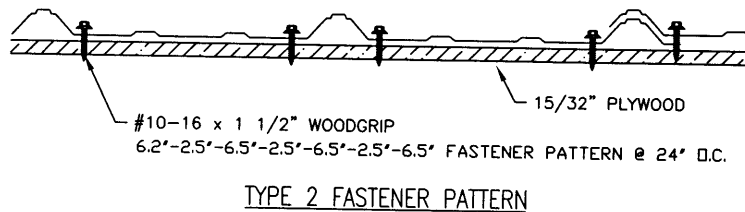
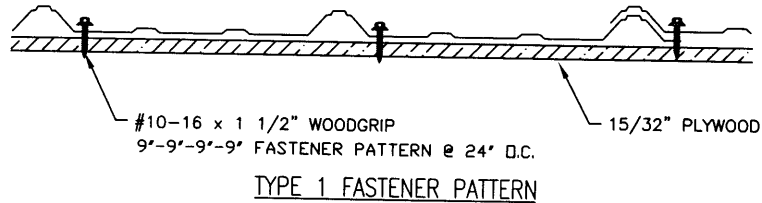
26 GA. AG PANEL FASTENER SPACING						
ZONE	FASTENER	SUBSTRATE	WIND SPEED ZONE			
			110	120	130	140
			ON CENTER SPACING	ON CENTER SPACING	ON CENTER SPACING	ON CENTER SPACING
ZONE 1	#10-16-1-1/2"	15/32" PLYWOOD	24" TYPE 1	24" TYPE 1	24" TYPE 1	24" TYPE 1
ZONE 2	#10-16-1-1/2"	15/32" PLYWOOD	24" TYPE 1	24" TYPE 1	24" TYPE 1	24" TYPE 2
ZONE 3	#10-16-1-1/2"	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.

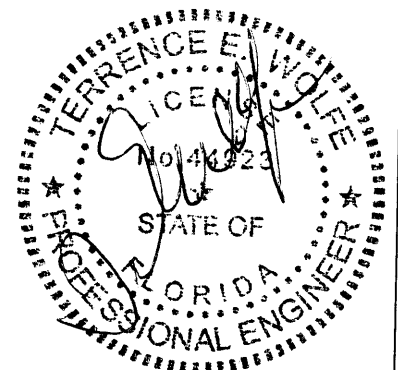
**PANEL FASTENER:** (1) #10-16 x 1-1/2" WOODGRIP W/ HI/LO THREADS AND SEALING WASHER.

**MAXIMUM ALLOWABLE PANEL UPLIFT PRESSURE:** 71.0 PSF @ 24" FASTENER SPACING TYPE 1 FASTENER PATTERN, 108.5 PSF @ 24" FASTENER SPACING TYPE 2 FASTENER PATTERN BASED ON TAS 125, UL 580/UL 1897 TESTING FOR 29 GA..

**SUBSTRATE:** MIN. 15/32" PLYWOOD. MUST BE DESIGNED IN ACCORDANCE WITH FBC 2004.



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.



*Mid Florida Metal Roofing  
Supply, Inc.*

**PRODUCT EVALUATION REPORT**

*26 Ga. AG Roof Panel over 15/32" Plywood*

Engineer Evaluator:

Terrence E. Wolfe, P.E. # 44923  
2405-a S. Houston Ave., Suite 500  
Humble, TX 77396

Validator:

Locke Bowden, P.E., FL #49704  
200 Eton Road  
Montgomery, AL 36109



**Reference: 9B-72.130(2), F.A.C.**

**MANUFACTURER:**

Mid Florida Metal Roofing & Supply Inc.  
27622 County Road 561  
Tavares, FL 32778

**STATEMENT OF COMPLIANCE WITH THE FOLLOWING CODE CRITERIA:**

Florida Building Code 2004:  
Chapter 15: Roof Assemblies  
    Section 1504.3.2; 1505.3, 1507.4, 1518.9  
Chapter 16: Structural Designs  
Chapter 22: Steel  
    Section 2209 Cold-form Steel  
Chapter 23. Wood  
    Section 2304

**PRODUCT DESCRIPTION:**

26 Ga. AG Roof Panel, 0.0185" Coated Thickness, Grade 80, 36" Coverage, 3/4" Tall rib, non-structural metal panel over 15/32" plywood decking.

**TECHNICAL DOCUMENTATION SUPPORTING COMPLIANCE STATEMENT**

**A. DRAWINGS**

1. Erection Drawings

**B. TESTS**

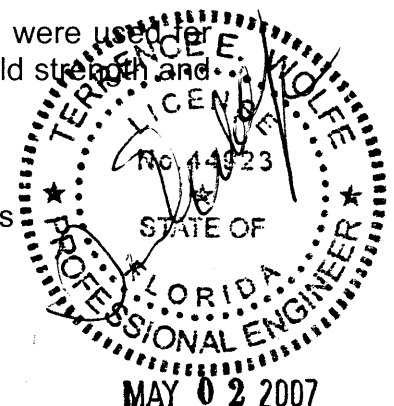
1. Test Report 194-0135T-07 dated 5-2-07 for 29 Ga. AG Panel by Force Engineering & Testing per TAS 125-03 UL 580-94, per FBC, Uplift Resistance of Roof Assemblies, UL 580 1897-98, per FBC, Uplift Tests for Roof Covering Systems
  - A) Test #1 Main Field, Tested 4-9-07 Grade 80 steel over 15/32" Plywood
  - B) Test #2 Edge Field, Tested 4-26-07 Grade 80 steel over 15/32" Plywood

**C. MATERIAL**

1. 26 Ga., 0.0185" min. Grade 80.

**RATIONAL ANALYSIS:** The 29 Ga. test report and test pressures were used for the 26 Ga. evaluation report. The 26 Ga. material has the same yield strength and a greater thickness giving the 26 Ga. greater strength.

**INSTALLATION REQUIREMENTS:** See uploaded erection drawings



**LIMITATIONS AND CONDITIONS OF USE FOR NON-HVHZ:**

**Maximum Uplift Pressure:**

**Main Field Pressure:** -71.0 psf @ 9"-9"-9"-9" (Type 1) Fastener Pattern @ 24" O.C. Fastener Spacing

**Perimeter & Corner Pressure:** -108.5 psf @ 6.5"-2.5"-6.5"-2.5"-6.5"-2.5"-6.5" (Type 2) Fastener Pattern @ 24" O.C. Fastener Spacing

**Minimum Roof Slope limitations:** 2:12

**Substrate Description:** over 15/32" CDX Plywood

**Substrate Attachment:** Designed by Florida P.E.

**Vapor Barrier:** 30 # Asphalt Saturated organic felt paper in compliance with ASTM D226, Type I or Type II.

**Insulation System:** None

**Fire Barrier:** (Optional) 1/4" Georgia Pacific "Dens Deck", or 5/8" water resistant type X gypsum sheathing with treated core and facer, or manufacturer approved equal.

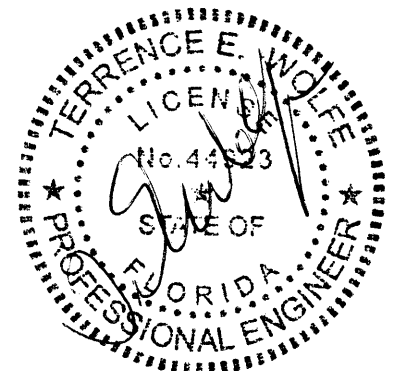
**DESIGN PROCEDURE:**

Based on the dimensions of the structure, appropriate loads are determined using Chapter 16 of the FBC for roof cladding wind loads. These component wind loads for roof cladding are compared to the allowable negative pressure listed in the load tables. The design professional shall select the appropriate erection details to reference in his drawings for proper fastener attachment to his structure. Support framing and the plywood decking must be in compliance with FBC Chapter 23 for wood and Chapter 16 for structural loading.

**CERTIFICATE OF INDEPENDENCE:** See upload attachments

**AUTHORIZED REPRESENTATIVE:**

Terrence E. Wolfe, P.E.  
FL #44923



MAY 02 2007