



## PRODUCT EVALUATION REPORT

*7.2 Panel*

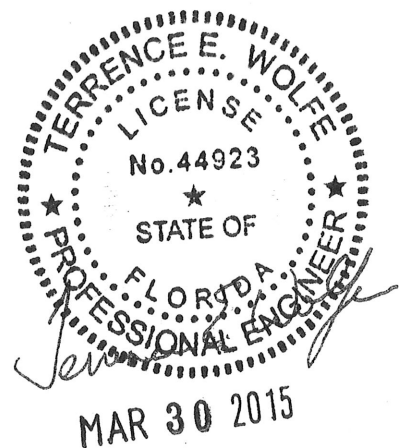
State of Florida Professional Engineer:

Terrence E. Wolfe, P.E. # 44923

19530 Ramblewood Drive

Humble, TX 77338

State of Florida  
C.O.A.  
# 26778



**Manufacturer:**

**MBCI, L.P.** *a division of NCI, L.P.*

**Houston**

14031 West Hardy  
Houston, TX 77064

**Lubbock**

5711 FM-40  
Lubbock, TX 79401

**Oklahoma City**

7000 S. Eastern Ave.  
Oklahoma City, OK 73149

**San Antonio**

8677 I-10 East  
Converse, TX 78109

**Atlanta**

2280 Monier Ave.  
Lithia Springs, GA 30122

**Richmond**

801 South Ave.  
Colonial Heights, VA 23834

**Indianapolis**

1780 McCall Drive  
Shelbyville, IN 46176

**Omaha**

1011 Ellison Ave.  
Omaha, NE 68110

**Memphis**

300 Highway 51 North  
Hernando, MS 38632

**Rome**

6168 State Route 233  
Rome, NY 13440

**Adel**

1600 Rogers Road  
Adel, GA 31620

**Phoenix**

660 South 91<sup>th</sup> street  
Tolleson, AZ 85353

**Salt Lake City**

1155 West 2300 North  
Salt Lake City, UT 84116

**Oskaloosa**

515 13<sup>th</sup> Ave E.  
Oskaloosa, IA 52577

**Atwater**

550 Industry Way  
Atwater, CA 95301

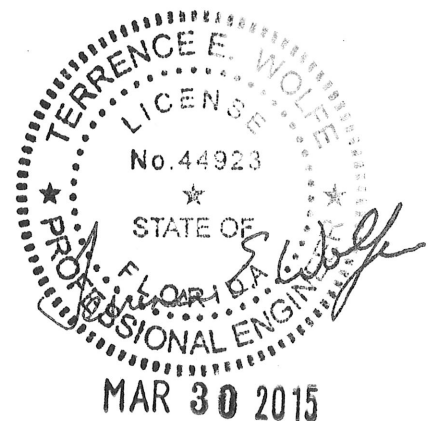
**Ennis**

1804 Jack McKay Blvd.  
Ennis, TX 75120

**Nicholasville**

6975 Danville Rd.  
Nicholasville, KY 40340

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**SUBJECT:**

Structural Component, Roof Deck.

**DESCRIPTION:**

7.2 Panel – a 36", wide, through-fastened, structural, metal roof panel, available in 26-ga. (.019). 7.2 Panel is typically applied over open framing. 7.2 Panel is through-fastened roof system.

**CODE CRITERIA:**

**PER RULE 61G20-3, CHAPTER 15, FLORIDA BUILDING CODE – BUILDING, 5<sup>TH</sup> EDITION (2014), ROOF ASSEMBLIES AND ROOFTOP STRUCTURES**

**SECTION 1504  
PERFORMANCE REQUIREMENTS**

**1504.1 Wind resistance of roofs.** Roof decks and roof coverings shall be designed for wind loads in accordance with Chapter 16, Sections 1504.2, 1504.3, and 1504.4.

**1504.3.2 Metal panel roof systems.** Metal panel roof systems through fastened or standing seam shall be tested in accordance with UL580 or ASTM E 1592 or TAS 125.

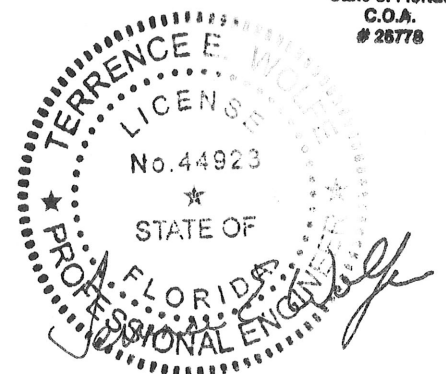
**Exception:** Metal roofs constructed of cold-formed steel, where the roof deck acts as the roof covering and provides both weather protection and support for structural loads, shall be permitted to be designed and tested with accordance with the applicable reference structural design standard in section 2210.1

**1504.7 Impact Resistance.** Roof coverings installed on low-slope roofs (roofs slope < 2:12) in accordance with Section 1507 shall resist impact damage based on the results of tests conducted in accordance with ASTM D 3746, ASTM D 4272, CGSB 37-GP-52M or the "Resistance to Foot Traffic" in Section 5.5 of FM 4470. All Structural metal roofing systems having a thickness equal or greater than 22 gage and all nonstructural metal roof systems having a thickness equal to or greater than 26 gage shall be exempt from test listed above.

**SECTION 1505  
FIRE CLASSIFICATION**

**1505.1 General.** Roof assemblies shall be divided into the classes defined below. Class A, B, and C roof assemblies and roof coverings required to be listed by this section shall be tested in accordance with ASTM E 108 or UL 790.

State of Florida  
C.O.A.  
# 26778



MAR 30 2015

## SECTION 1506 MATERIALS

**1506.1 Scope.** The requirements set forth in this section shall apply to the application of roof-covering materials specified herein. Roof coverings shall be applied in accordance with this chapter and the manufacturer's installation instructions.

*See attached installation details.*

**1506.4 Product identification.** Roof covering materials shall be delivered in packages bearing the manufacturer's identifying marks and approved testing agency labels required in accordance with 1505.

**1506.6 Screws.** Wood Screws shall conform to ANSI/ASME B 18.6.1. Screws shall be corrosion resistant by coating, galvanization, stainless steel, nonferrous metal or suitable corrosion-resistant material. Corrosion resistance shall be equivalent to ASTM A641, Class1; TAS114, App E; or exhibit not more than 5 percent rust after 1000 hrs. exposure ASTM B 117.

**1506.7 Clips.** Clips shall be corrosion resistant clips. The corrosion resistance shall meet shall meet 0.90 oz per sq ft measured according to ASTM A 90/A90M, TAS 114 Appendix E or an equal corrosion resistance coating, electro galvanization, mechanical galvanization, hot dipped galvanization, stainless steel, nonferrous metals and alloys or other suitable corrosion resistant materials.

*Clips must meet the above corrosion resistance*

## SECTION 1507 REQUIREMENTS FOR ROOF COVERINGS

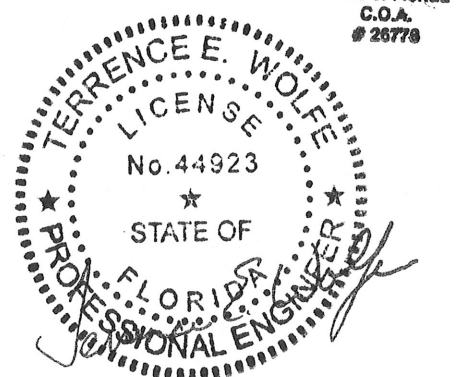
**1507.4 Metal roof panels.** The installation of metal roof panels shall comply with the provisions of this section.

**1507.4.1 Deck requirements.** Metal roof panel roof coverings shall be applied to a solid or closely fitted deck, except where the roof covering is specifically designed to be applied to spaced supports.

*See attached limits of use.*

**1507.4.2 Deck slope.** The minimum slope for standing seam of roof systems shall be one-quarter unit vertical in 12 units horizontal (2-percent slope).

*See attached limits of use.*



MAR 30 2015

## LIMITATIONS OF USE FOR NON-HIGH VELOCITY HURRICANE ZONES

<b>Minimum Slope:</b>	1/2:12
<b>Substrate:</b>	Steel
<b>Substrate Description:</b>	Purlins or FL P.E. designed equal.
<b>Substrate Attachment:</b>	Designed by FL P.E. per FBC 5 <sup>th</sup> Edition (2014)
<b>Fire Barrier:</b>	Class A fire exposure rating in accordance with FBC Section 1505.1 with UL 790.
<b>Insulation:</b>	(Optional) Vinyl or reflective foil faced fiberglass batten insulations that have a flame spread rating of no more than 25 and a smoke development rating of not more than 450.
<b>Minimum Substrate Thickness:</b>	16-ga purlins or FL P.E. designed equal per FBC 5 <sup>th</sup> Edition (2014)

**Minimum Substrate Thickness:** 16-ga purlins or FL P.E. designed equal.

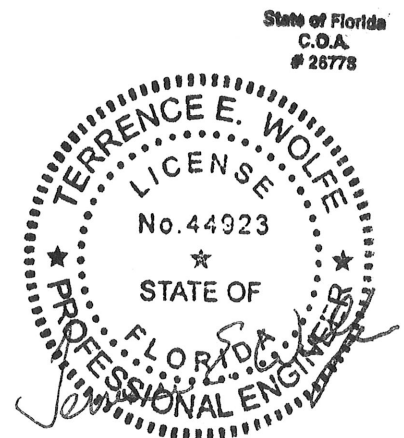
### Documentation Supporting the Compliance Statement:

The product has been tested in accordance with:

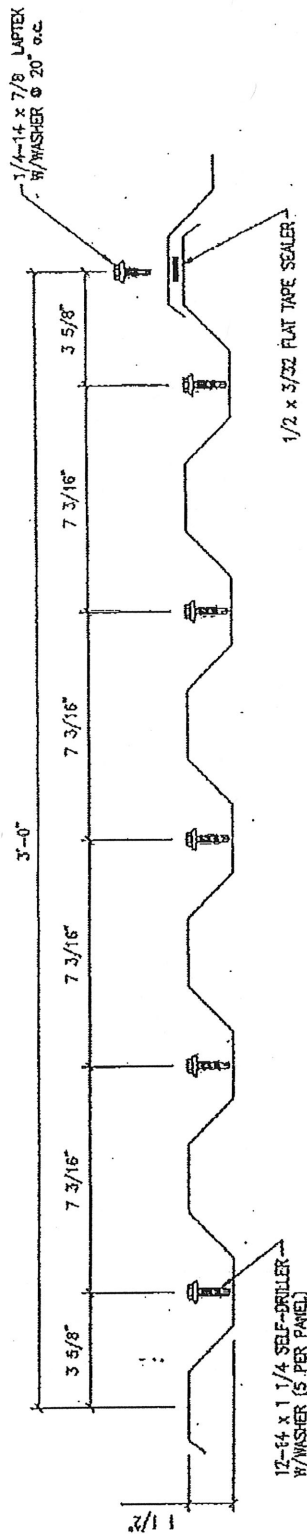
- UL 580 Testing through UL construction # 244 located in Northbrook, IL 60062.
- UL 790 Class A documentation under Section 1505.1, located in Northbrook, IL 60062.
- FM 4471 "Foot Traffic" for roof slopes 2:12 or less - Test Report 07-0258T-11 E dated 1-4-12 by Force Engineering & Testing, Inc. located in Humble, TX 77338. The FM 4471-92 test standard is equivalent to the FM 4471-10 test standard.

**Maximum Uplift Pressure:** -52.5 psf @ 5'-3 1/4"

**Application:** Install 7.2 Panel per the manufacturers approved details.

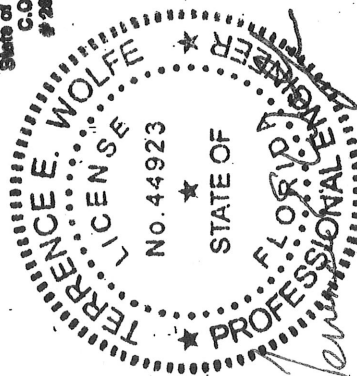


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'7.2' PANEL PROFILE & FASTENER SPACING

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