

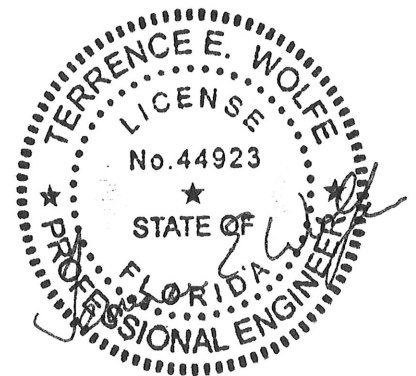


PRODUCT EVALUATION REPORT

Craftsman SB Panel

Terrence E. Wolfe, P.E. # 44923
19530 Ramblewood Drive
Humble, TX 77338

State of Florida
C.O.A.
28778



MAR 30 2015

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 91th street
Tolleson, AZ 85353

Salt Lake City

1155 West 2300 North
Salt Lake City, UT 84116

Oskaloosa

515 13th Ave E.
Oskaloosa, IA 52577

Atwater

550 Industry Way
Atwater, CA 95301

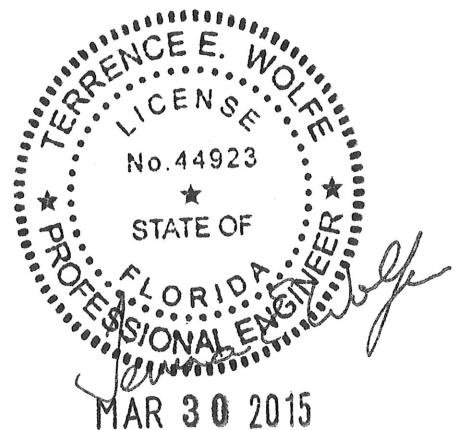
Ennis

1804 Jack McKay Blvd.
Ennis, TX 75120

Nicholasville

6975 Danville Rd.
Nicholasville, KY 40340

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SUBJECT:

Roofing, Metal Roofing

DESCRIPTION:

Craftsman SB – 16.5", wide, snap-on batten, non-structural, metal roof panel, available in 24-ga. (0.023"). Craftsman is typically applied over plywood substrate. Craftsman is snap-on batten roof system.

CODE CRITERIA:

PER RULE 61G20-3, CHAPTER 15, FLORIDA BUILDING CODE – BUILDING, 5TH 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.

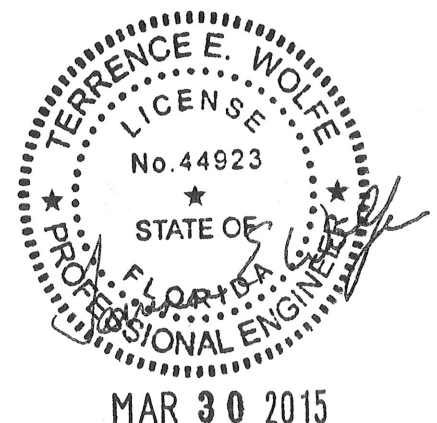
Exception: Metal roofs constructed of cold-formed steel, where the roof deck acts as the roof covering and provides both weather protection and support for structural loads, shall be permitted to be designed and tested with accordance with the applicable reference structural design standard in section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

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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.



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

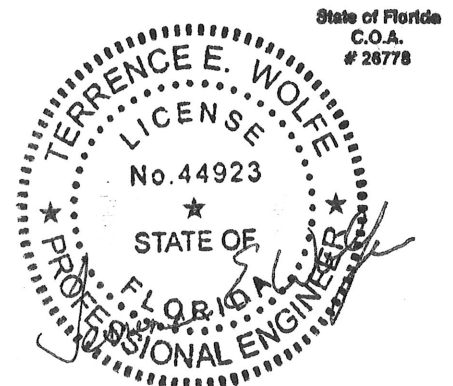
1507.4 Metal roof panels. The installation of metal roof panels shall comply with the provisions of this section.

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.



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1507.4.3 Material standards. Metal-sheet roof covering systems that incorporate supporting structural members shall be designed in accordance with Chapter 22. Metal-sheet roof coverings installed over structural decking shall comply with Table 1507.4.3(2).

Table 1507.4.3(2) Metal Roof Coverings

Roof Covering Type	Minimum Application Rate
55% Aluminum-Zinc Alloy Coated Steel	ASTM A 792 AZ 50
5% Aluminum Alloy Coated Steel	ASTM A 875 GF60
Galvanized Steel	ASTM A 653G-90
Prepainted Steel	ASTM A 755

1507.4.4 Attachment. Metal roof panels shall be secured to the supports in accordance with the manufacturer's fasteners. In absence of manufacturer recommendations, the following fasteners shall be used.

1. Galvanized fasteners shall be used for steel roofs.
2. Copper, brass, bronze, copper alloy or 300 series stainless-steel fasteners shall be used for copper roofs.
3. Aluminum-zinc coated fasteners are acceptable for aluminum-zinc coated roofs.
4. Stainless-steel fasteners are acceptable for all types of metal roofs.

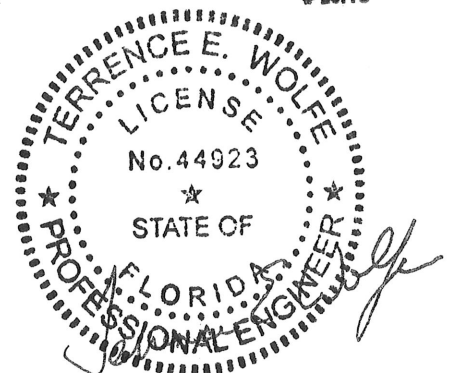
See attached Installation instructions.

CHAPTER 22 STEEL

SECTION 2210 COLD-FORMED STEEL CONSTRUCTION

2210.1 Regular cold-formed steel. The design of cold-formed carbon and low-alloy steel structural members shall be in accordance AISI S100.

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LIMITATIONS OF USE FOR NON-HIGH VELOCITY HURRICANE ZONES

Minimum Slope:	3:12 (per manufacturer's recommendation).
Deck Type:	Wood
Deck Description:	19/32" or greater plywood or wood plank.
Deck Attachment:	Applied in accordance with FBC 5 th Edition (2014)
Underlayment:	Applied in accordance with FBC 5 th Edition (2014)
Moisture Barrier:	Min. 40 mil self adhering membrane
Fire Barrier:	Class A fire exposure rating in accordance with FBC Section 1505.1 with UL 790.
Minimum Deck Thickness:	19/32" or greater plywood or wood plank.

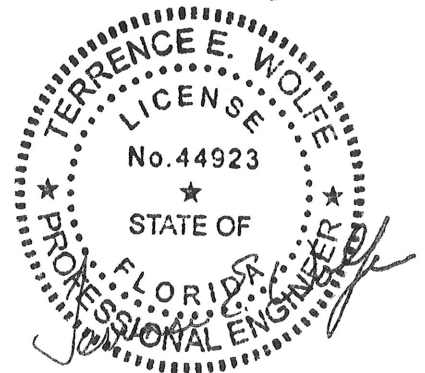
Documentation Supporting the Compliance Statement:

- UL 790 Class A documentation under Section 1505.1, located in Northbrook, IL 60062.
- TAS UL 580 under construction number 280 located in Northbrook, IL 60062.
- UL 580/1897: Test Report T230-12 dated June 27, 2012 by Farabaugh Engineering and Testing located in McKeesport, PA 15135. 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.

Maximum Uplift Pressure:	16.5" Craftsman SB -52.50 psf @ 2'-0" -71.00 psf @ 0'-6"
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Application:	Install Craftsman SB per the manufacturers approved details. Use #12 pancake fasteners of sufficient length to penetrate $\frac{5}{16}$ " through the sheathing for 16.5" Craftsman Panels.
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Houston, TX 877/713-6224
 Adel, GA 888/446-6224
 Atlanta, GA 877/612-6224
 Atwater, CA 800/829-9324
 Dallas, TX 800/553-6224
 Indianapolis, IN 800/735-6224

Jackson, MS 800/622-4136
 Lubbock, TX 800/758-6224
 Memphis, TN 800/208-6224
 Oklahoma City, OK 800/597-6224
 Omaha, NE 800/458-6224
 Phoenix, AZ 888/533-6224

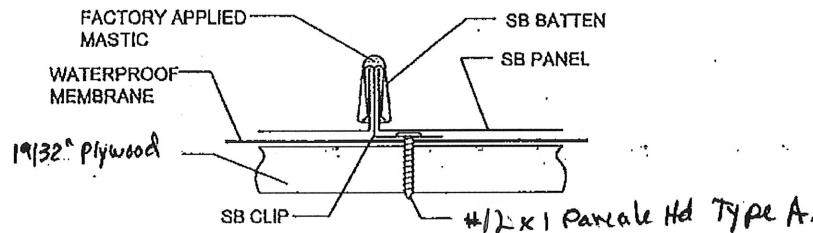
Richmond, VA 800/729-6224
 Rome, NY 800/659-6224
 Salt Lake City, UT 800/874-2404
 San Antonio, TX 800/588-6224



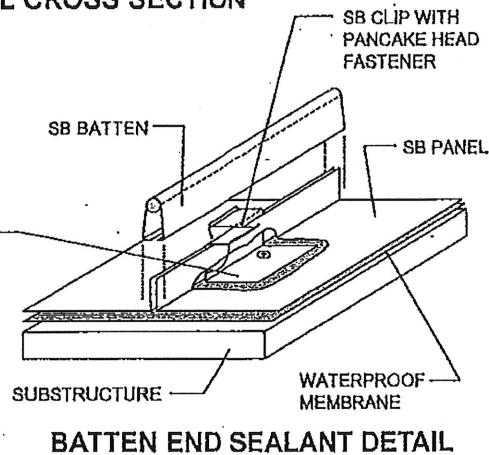
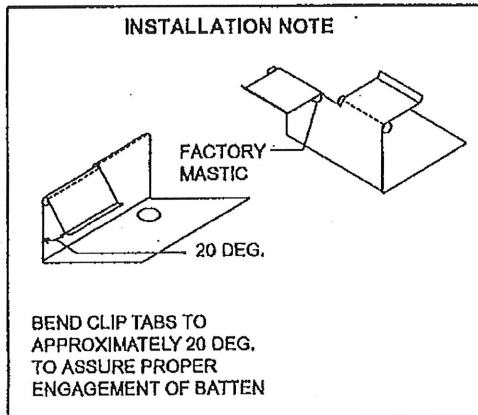
Craftsman™

PRODUCT INFORMATION

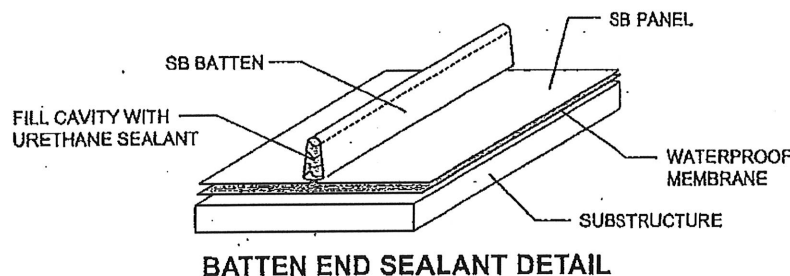
TYPICAL DETAILS PANEL



INSTALLED PANEL CROSS SECTION



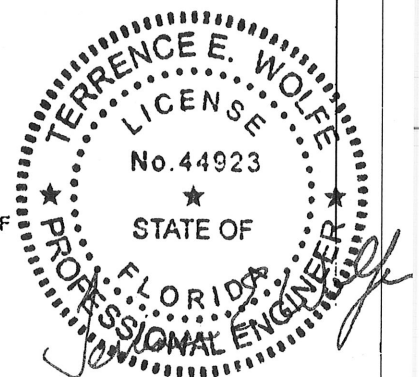
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BATTEN END SEALANT DETAIL

NOTES:

1. Factory applied mastic in battens is mandatory.
2. If it is necessary to raise the tabs of a clip up after they have been bent down into place, the clip must be replaced to prevent clip failure.
3. Clips to be installed on 2'-0" o.c. unless otherwise instructed on roof plans.
4. Ends of panels should be sealed with urethane sealant at all eave and valley conditions.



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