

ICC-ES Evaluation Report

ESR-4802
Issued March 1, 2010
This report is subject to re-examination in one year.
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A Subsidiary of the International Code Council®
DIVISION: 07-THERMAL AND MOISTURE PROTECTION
Section: 07410-Metal Roof and Wall Panels
REPORT HOLDER:
ACME CUSTOM-BUILT PANELS
52380 FLOWER STREET
CHICO, MONTANA 43820
(808) 664-1512
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EVALUATION SUBJECT:
**CUSTOM-BUILT STANDING SEAM METAL ROOF
PANELS: CB-150**
1.0 EVALUATION SCOPE
Compliance with the following codes:

- 2009 *International Building Code*® (IBC)
- 2009 *International Residential Code*® (IRC)

Properties evaluated:

- Weather resistance
- Fire classification
- Wind uplift resistance

2.0 USES

Custom-Built Standing Seam Metal Roof Panels are steel panels complying with IBC Section 1507.4 and IRC Section R905.10. The panels are recognized for use as Class A roof coverings when installed in accordance with this report.

3.0 DESCRIPTION
3.1 Roofing Panels:

Custom-Built standing seam roof panels are fabricated in steel and are available in the CB-150 and SL-1750 profiles. The panels are roll-formed at the jobsite to provide the standing seams between panels. See Figures 1 and 3 for panel profiles.

The standing seam roof panels are roll-formed from minimum No. 24 gage [0.024 inch thick (0.61 mm)] cold-formed sheet steel. The steel conforms to ASTM A 792, with an aluminum-zinc alloy coating designation of AZ50.

4.0 INSTALLATION
4.1 General:

Installation of the Custom-Built Standing Seam Roof Panels must be in accordance with this report, Section

1507.4 of the IBC or Section R905.10 of the IRC, and the manufacturer's published Installation Instructions. The manufacturer's installation instructions must be available at the job site at all times during installation.

4.2 Roof Panel Installation:

CB-150: The CB-150 roof panels are installed on roofs having a minimum slope of 2:12 (17 percent). The roof panels are installed over the optional underlayment and secured to the sheathing with the panel clip. The clips are located at each panel rib side lap spaced 6 inches (152 mm) from all ends and at a maximum of 4 feet (1.22 m) on center along the length of the rib, and fastened with a minimum of two

4.3 Fire Classification:

The steel panels are considered Class A roof coverings in accordance with the exception to IBC Section 1505.2 and IRC Section R902.1.

4.4 Wind Uplift Resistance:

The systems described in Section 3.0 and installed in accordance with Sections 4.1 and 4.2 have an allowable wind uplift resistance of 45 pounds per square foot (2.15 kPa).

5.0 CONDITIONS OF USE

The standing seam metal roof panels described in this report comply with, or are suitable alternatives to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

5.1 Installation must comply with this report, the applicable code, and the manufacturer's published installation instructions. If there is a conflict between this report and the manufacturer's published installation instructions, this report governs.

5.2 The required design wind loads must be determined for each project. Wind uplift pressure on any roof area must not exceed 45 pounds per square foot (2.15 kPa).

6.0 EVIDENCE SUBMITTED:

Data in accordance with the ICC-ES Acceptance Criteria for Metal Roof Coverings (AC166), dated October 2007.

7.0 IDENTIFICATION

Each standing seam metal roof panel is identified with a label with a label bearing the product name, the material type and gage, the Acme Custom-Built Panels name and address, and the evaluation report number (ESR-4802).