



# Testing & Engineering Report

Ridge Runner™

TER No. 0712-02

Long View Enterprises, LLC

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**Long View Enterprises, LLC**  
**W11455 Longview Rd**  
**Brandon, WI 53919**  
**866-933-3750**  
**[www.theridgerunner.biz](http://www.theridgerunner.biz)**

## 1. Subject:

Strength and Serviceability Test of the Ridge Runner™

## 2. Application Summary:

The Ridge Runner™ has demonstrated that the product has sufficient strength capable of supporting a combined worker and equipment load of 250 lbs with a safety factor of four. The product proved to successfully withstand loads in a variety of situations to which the Ridge Runner™ will be exposed.

Simulation and testing of real-life serviceability of the Ridge Runner™ also demonstrated that the product can be used safely in normal and typical working environments where proper bracing is used.

It has been shown that the Ridge Runner™ provides the capacity to be used by framers as they install trusses. However, this only applies to situations in which:

- a. The Ridge Runner™ is being used in accordance with the installation and use instructions provided by Long View Enterprises, LLC.
- b. The trusses it is used with have been properly restrained and braced in accordance with recommendations from the Building Component Safety Information, BCSI 2006 Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

It is imperative for framers using the Ridge Runner™ to ensure stable ground bracing, plumb trusses, properly sized and spaced top and bottom chord temporary lateral restraints and diagonal bracing in accordance with Building Component Safety Information, BCSI 2006 Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses. This will ensure that there is a safe and stable set of trusses that will work as the framework needed to effectively use this product to install trusses.

## SBCRI Confidential Research and Testing

The Ridge Runner™ meets the following OSHA requirements:

- a. Based on OSHA Standard 29 CFR 1926.1053, Requirements for Ladders, the Ridge Runner™ is capable of supporting a combined worker and equipment load of 250 lbs, with a safety factor of four.
- b. Ridge Runner™ meets OSHA 1001.1 Safety Guidelines for Working on Peaks and Ridge Beams per OSHA1001.1: “Workers at the peak, in the web of trusses, or on top of the ridge beam, shall work from a stable position. They must either sit on a ridge seat (or the equivalent) or position themselves in previously stabilized trusses or rafters and lean into, and reach through, the trusses or rafters.”

### 3. Evaluation Scope:

A prototype of the Ridge Runner™ was used during the installation of wood trusses and dimension lumber rafters for testing purposes.

### 4. Product Description/Materials:

The Ridge Runner™ is constructed of durable 0.21875-inch thick powder coated aluminum and is designed to fit over the 1-1/2” wide edge of a wood truss chord or dimension lumber rafter or joist to provide a comfortable and stable work platform capable of supporting a combined worker and equipment load of 250 lbs. The Ridge Runner™ is attached to each supporting piece of lumber with two 16d (0.131” x 3.5” minimum) nails. The aluminum that forms the Ridge Runner™ conforms to ASTM B209 specifications with a minimum yield strength of 17,000 psi and a minimum tensile strength of 20,000 psi. See Photos 1 & 2 below to view a typical application of the Ridge Runner™.



**Photo 1.** Ridge Runner™ installed on top chord of truss.



**Photo 2.** Worker using the Ridge Runner™ to install trusses.

## 5. Design and Installation:

The Ridge Runner™ has been designed and tested to support a worker with an equipment load of 250 lbs with a safety factor of four. The Ridge Runner™ is intended to be installed on a minimum 2x4 nominal wood support, which is assumed to have the capability of safely supporting the weight of the Ridge Runner™ together with the worker and equipment load up to 250 lbs.

The manufacturer's installation instructions must be adhered to and a copy of these instructions must be available at all times on the jobsite during installation.

It is imperative for framers using the Ridge Runner™ to ensure that stable ground bracing, plumb trusses, properly sized and spaced top and bottom chord temporary lateral restraints and diagonal bracing is used in accordance with Building Component Safety Information, BCSI 2006 Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses. This will ensure that there is a safe stable set of trusses that will work as the framework needed to effectively use this product to install trusses.

## 6. Identification:

Each Ridge Runner™ described in this report shall be identified with a marking or label bearing the product's name (Ridge Runner™) and/or trademark.

## 7. Evidence Submitted:

- a. Qualtim Test Report Number: 071217 Ridge Runner™ entitled, "Strength and Serviceability Test of Ridge Runner™" containing load and deformation test results.
- b. Ryerson Material Certification, dated October 17, 2007, containing material description and composition.

## 8. Conditions of Use:

- a. The total load applied to the Ridge Runner™, including the weight of the worker and all of his/her equipment, shall not exceed 250 lbs.
- b. Restrain and brace trusses in accordance with the recommendations provided in the BCSI - B2 Summary Sheet - Truss Installation & Temporary Restraint/Bracing published by WTCA – Representing the Structural Building Components Industry.
- c. The manufacturer's installation instructions must be adhered to and a copy of these instructions must be available at all times on the jobsite during installation.

9. **Basis of Report:**

Ridge Runner™ can be used to comply with the lateral restraint requirements found in the following OSHA requirements:

- a. Based on OSHA Standard 29 CFR 1926.1053, Requirements for Ladders, Ridge Runner™ can easily sustain an applied worker load (design load) of 250 lbs design plus a safety factor of four.
- b. Ridge Runner™ meets OSHA 1001.1 Safety Guidelines for Working on Peaks and Ridge Beams per OSHA1001.1: “Workers at the peak, in the web of trusses, or on top of the ridge beam, shall work from a stable position. They must either sit on a ridge seat (or the equivalent) or position themselves in previously stabilized trusses or rafters and lean into, and reach through, the trusses or rafters.”



**Responsibility Statement**

The information contained herein is based on a product evaluation performed in accordance with the referenced testing and/or analysis using generally accepted engineering practices. Product quality control is the responsibility of the manufacturer. Consult your local jurisdiction or design professional to assure compliance with the local building code and the proper detailing and application for the intended purpose. Qualtim, Inc. and SBC Research Institute do not make any warranty, express or implied, or assume any legal liability or responsibility for the use, application of, and/or reference to opinions, findings, conclusions, or recommendations included in this report.