



**American  
Iron and Steel  
Institute**

## News Release

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### **AISI PUBLISHES NEW COLD-FORMED STEEL RESEARCH REPORT ON LOAD BEARING CLIP ANGLE DESIGN**

WASHINGTON, D.C. – The American Iron and Steel Institute (AISI) has published a new cold-formed steel research report on load bearing clip angle design. The report presents the second phase of a research project aimed at developing design methods for three limit states of cold-formed steel clip angles – shear, compression, and pullover of the screw connections. “RP18-4: Load Bearing Clip Angle Design – Phase II” is available for [free download here](#).

During the first phase of the research, new design methods were developed for the three limit states. Load and Resistance Factor Design (LRFD) and Limit State Design (LSD) resistance factors and Allowable Stress Design (ASD) safety factors were also provided to apply to the proposed design equations for nominal strength. In the second phase, the research focused on investigating: 1) the fastener pattern effects on the behavior and strength of clip angles, 2) the serviceability of clip angles subjected to tension, and 3) the design of clip angles subjected to combined shear and bending with different boundary locations.

“Clip angles are widely used in cold-formed steel structures, and the completed phases of this research provide us with a better understanding of their behavior,” said Jay Larson, P.E., F.ASCE, managing director of AISI’s Construction Technical Program. “The results of this work will enable improved guidance and aids for designers of cold-formed steel structures.”

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*AISI's codes and standards work is conducted under the Construction Market Council of the Steel Market Development Institute (SMDI), a business unit of AISI, which increases and defends the use of steel by developing innovative materials, applications and value-added solutions for customers in the automotive, construction and packaging markets. SMDI investors include: [AK Steel Corporation](#), [Algoma](#), [ArcelorMittal](#), [Nucor Corporation](#) and [SSAB Americas](#). For more information on SMDI's Construction Market program, visit [www.buildusingsteel.org](http://www.buildusingsteel.org). Follow SMDI Construction on Twitter [@BuildUsingSteel](#).*

*AISI serves as the voice of the North American steel industry in the public policy arena and advances the case for steel in the marketplace as the preferred material of choice. AISI also plays a lead role in the development and application of new steels and steelmaking technology. AISI is comprised of 21 member companies, including integrated and electric furnace steelmakers, and approximately 120 associate members who are suppliers to or customers of the steel industry. For more news about steel and its applications, view AISI's website at [www.steel.org](http://www.steel.org). Follow AISI on [Facebook](#) or Twitter ([@AISISteel](#)).*

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