

## Leadership



**American  
Iron and Steel  
Institute**



**CFSEI**  
COLD-FORMED STEEL  
ENGINEERS INSTITUTE



**CFSC**

Cold-Formed  
Steel Council



**Steel Framing Alliance™**



STEEL FRAMING INDUSTRY ASSOCIATION

## TrusSteel Provides Peak Performance

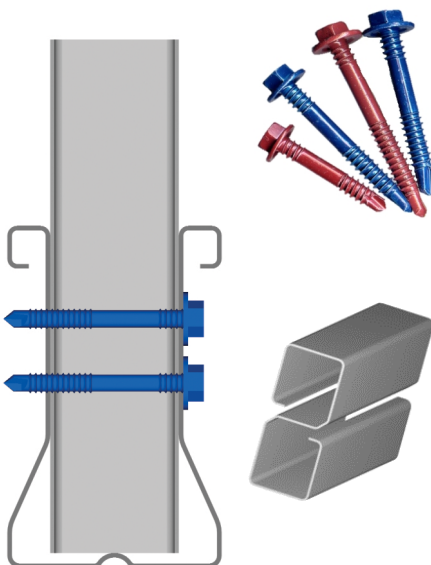
The innovative TrusSteel Cold-Formed Steel Truss System offers proven, reliable and economical solutions for virtually every roof or floor application. It delivers strength and stiffness, highly efficient transfer of structural loads and greater stability for easier handling and installation. That's why it's the most accepted and specified cold-formed steel truss system available.

Today, as a member of ITW's North American Construction Group, Alpine TrusSteel is building upon its firm foundation of experience and stability by continuously delivering new products and services to the marketplace. TrusSteel embraces its role as the industry leader in engineering, software development and metal forming technology. These leadership qualities have led to more TrusSteel trusses being installed each year than any other proprietary CFS truss system.

TrusSteel provides ongoing leadership to the cold-formed steel truss industry through active participation in key organizations such as the Cold-Formed Steel Engineers Institute and the American Iron and Steel Institute. TrusSteel is also actively involved with the International Code Council, Underwriters Laboratories and the U.S. Green Building Council.

TrusSteel's state-of-the-art roll-forming facility in Pontotoc, Mississippi opened in 2014. The 150,000 sq. ft. facility is currently home to precision high-speed roll formers that manufacture all rolled chord and web products for the TrusSteel system. Strategically located near multiple steel mills ensures a minimal carbon footprint that enhances LEED credits and delivers best-in-class practices.

## Innovation



### Unique Chord Sections

The symmetrical shape of the TrusSteel patented U-shaped chord sections provides nearly equal chord member moment capacity in both in-plane directions. The TrusSteel chord members have superior bending strength in out-of-plane directions. These characteristics combine to create an efficient truss that is exceptionally strong and stiff.

### Multiple Web Sections

TrusSteel combines its patented roll-formed webs along with fully welded rectangular tube webs, both in various sizes and steel thicknesses, to attain strength and suitability simultaneously. These symmetrical shapes contribute to the stiffness and stability of each truss which reduces bracing by eliminating torsional buckling.

### Patented Fasteners

TrusSteel revolutionized the CFS truss industry with the introduction of Double-Shear™ fastener technology. This patented technology provides a rigid, bolt-like connection at all chord/web intersections and is specifically designed to resist movement and back-out. In addition to strength, the color-coded fasteners deliver a dependable and easily inspected connection.

### Structural Connections

TrusSteel manufactures a comprehensive line of truss-to-truss and truss-to-bearing connectors, which provide consistent quality and ease of field installation. The industry's most extensive library of Standard Details, which describes our connections, capacities and section properties, is available in various CAD formats via [www.TrusSteel.com](http://www.TrusSteel.com).

## Productivity



### Design Flexibility

TrusSteel provides span capabilities with greater design flexibility than those of competing products such as bar joists and cee stud trusses. As a result, you can design in familiar roof lines, pitched or flat, with hips, gables, gambrels, mono pitch, mansards, cantilevers, overhangs, scissors and floor trusses - even curves and barrel vaults using TrusSteel's ARC™ truss system. TrusSteel delivers a framing solution for all types of construction including retrofit.

### Easy to Specify and Design

TrusSteel's comprehensive Truss Design Manual contains information on the latest industry standards and building codes, a guide specification in CSI format, and standard details in DXF and DWG formats, assuring that your specs and construction documents are accurate and complete. Local TrusSteel fabricators can aid you in making informed decisions about project designs and costs.

### Availability

TrusSteel supports the most extensive network of CFS truss fabricators in the industry. This nationwide network assures that TrusSteel trusses are available for your projects in every region of the United States and Canada. Authorized Fabricators may qualify as "local" suppliers toward LEED point calculations.

### More Information

For in-depth technical and application information on TrusSteel, go to [www.TrusSteel.com](http://www.TrusSteel.com). You can download CAD details, order a Truss Design Manual or request an educational seminar.



## Responsibility



**Project Phoenix - Pentagon Rebuild**



**Ka'anapali Ocean Resorts - Maui, HI**

### Responsible Products

TrusSteel CFS trusses contribute to a safer built environment. They do not emit moisture or fumes during their life cycle. They are resistant to insect attack, and do not provide a medium for the growth of mold. And, since steel is the most recycled building material, TrusSteel can help you reach your LEED goals.

### Recognized Fire Resistance

Noncombustible TrusSteel trusses provide integral, recognized fire resistance that does not fade with time. See our Truss Design Manual or our website for more information on TrusSteel's useful, cost-saving UL-listed roof and floor assemblies.

### Structural Performance

Backed by nearly 50 years of experience in the truss industry, you can be assured that TrusSteel understands the structural performance of trusses. The powerful SteelVIEW™ truss design software analyzes each truss using the latest industry standards, guided by AISI Design Standards. TrusSteel's unique multi-node modeling, derived and validated from full-scale testing, delivers the most accurate structural analysis within the industry.

### Quality Trusses

TrusSteel CFS trusses are built in a shop environment with experienced fabrication personnel. TrusSteel endorses industry truss shop quality control standards developed by the SBCA Cold-Formed Steel Council.

### Economical System

Since TrusSteel CFS trusses are the stiffest trusses in the industry, less permanent bracing is typically required within the truss system. This feature, combined with excellent performance at 4 ft. or greater on-center spacing, can reduce the cost of the installed truss system through reduced labor costs, materials and project duration. Property insurance premium discounts may provide long-term savings.



## Availability



**SteelVIEW**  
instinctive building

iCommand • iModel • iDesign



**TrusSteel**  
ENGINEERED BY ALPINE  
32 bit software for Microsoft Windows 7/8



### Who is a TrusSteel Authorized Fabricator?

An Authorized Fabricator is an independently owned and operated local truss fabrication shop. Each Fabricator markets and services truss projects in their own region, backed by our near 50 continuous years of truss experience. Taken together, the nationwide network of TrusSteel Authorized Fabricators forms a vast repository of truss and framing knowledge at your disposal.

### Knowledge Base

TrusSteel Authorized Fabricators are truss experts. They can answer questions about truss applications and installations, as well as questions about pricing and delivery. Do you have questions about CFS roof framing systems, truss layouts, spans, spacing, profiles, systems, connections, bracing, overhangs, mechanical chases...and more? Call your local Authorized Fabricator. They can save you money up front in your design development or structural design process.

### Engineering

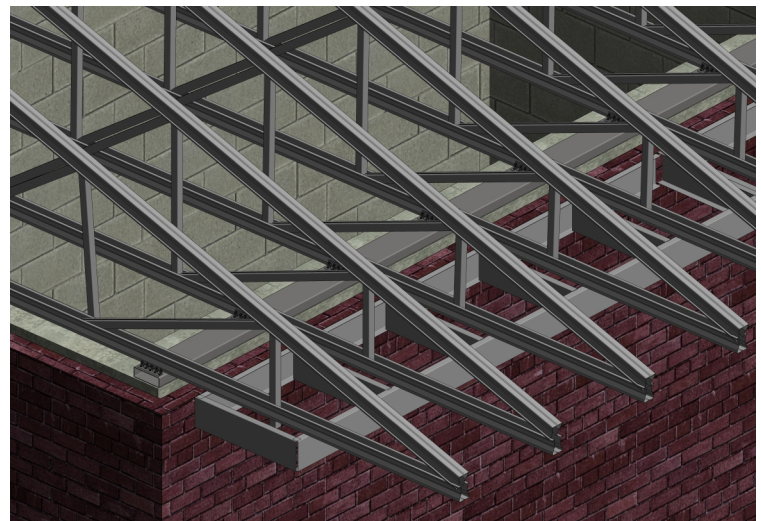
All TrusSteel trusses are engineered trusses. Authorized Fabricators provide not only building components, but can provide, through their integration with TrusSteel, individually-engineered and sealed truss designs. TrusSteel has a staff of in-house engineers that reviews and seals hundreds of thousands of trusses each year, in every state and Canadian provinces.

### Quality Trusses

Each Authorized Fabricator builds TrusSteel trusses in a plant environment to ensure the highest-quality components. Trusses are built according to engineered shop drawings and highly accurate cutting/assembly drawings created by Alpine SteelVIEW software. TrusSteel trusses are built with patented Double-Shear fasteners and internal connectors to assure consistently accurate trusses.

### How Can I find TrusSteel Authorized Fabricators?

You can find a list of TrusSteel Authorized Fabricators on the TrusSteel website at [www.TrusSteel.com](http://www.TrusSteel.com). Or you may call TrusSteel at (888) 565-9181.





## Profitability



### Safer and Easier to Install

The unique features of TrusSteel trusses make them safe to handle and erect. Stiffer trusses add handling control and reduce the danger of buckling during lifting and placement. The rolled edges of the chords and webs help protect workers from cuts. TrusSteel trusses can be as light as one-half the weight of similar wood or "C" channel steel trusses. Unlike some other CFS trusses, laterally stiff TrusSteel trusses resist folding or "butterflying" and perform exceptionally well in rafted installations.

### Reduced Callbacks

TrusSteel trusses reduce callbacks because they start straighter and remain straighter than many other types of trusses. The dimensional stability of steel also reduces drywall fastener pops.

### Delivered Quality and Value

TrusSteel trusses help you achieve your quality goals: roof lines that plane accurately, eaves and soffits that align properly and interior ceiling lines that are flat and true. From bidding to punch list, TrusSteel delivers value to your project through increased safety, quality, efficiency and cost-effectiveness.

### Save Time and Money

- |                               |                               |
|-------------------------------|-------------------------------|
| i Turnkey Packages            | h Experienced Designers       |
| i Sealed Engineering Drawings | h Shop-Fabricated Trusses     |
| i Field Installation Details  | h Accurate Truss Layouts      |
| i BIM-Enabled                 | h Comprehensive Shop Drawings |
| i Floor Trusses               | h Curved ARC Trusses          |
| i Timely Quotations           | h UL-Rated Assemblies         |

