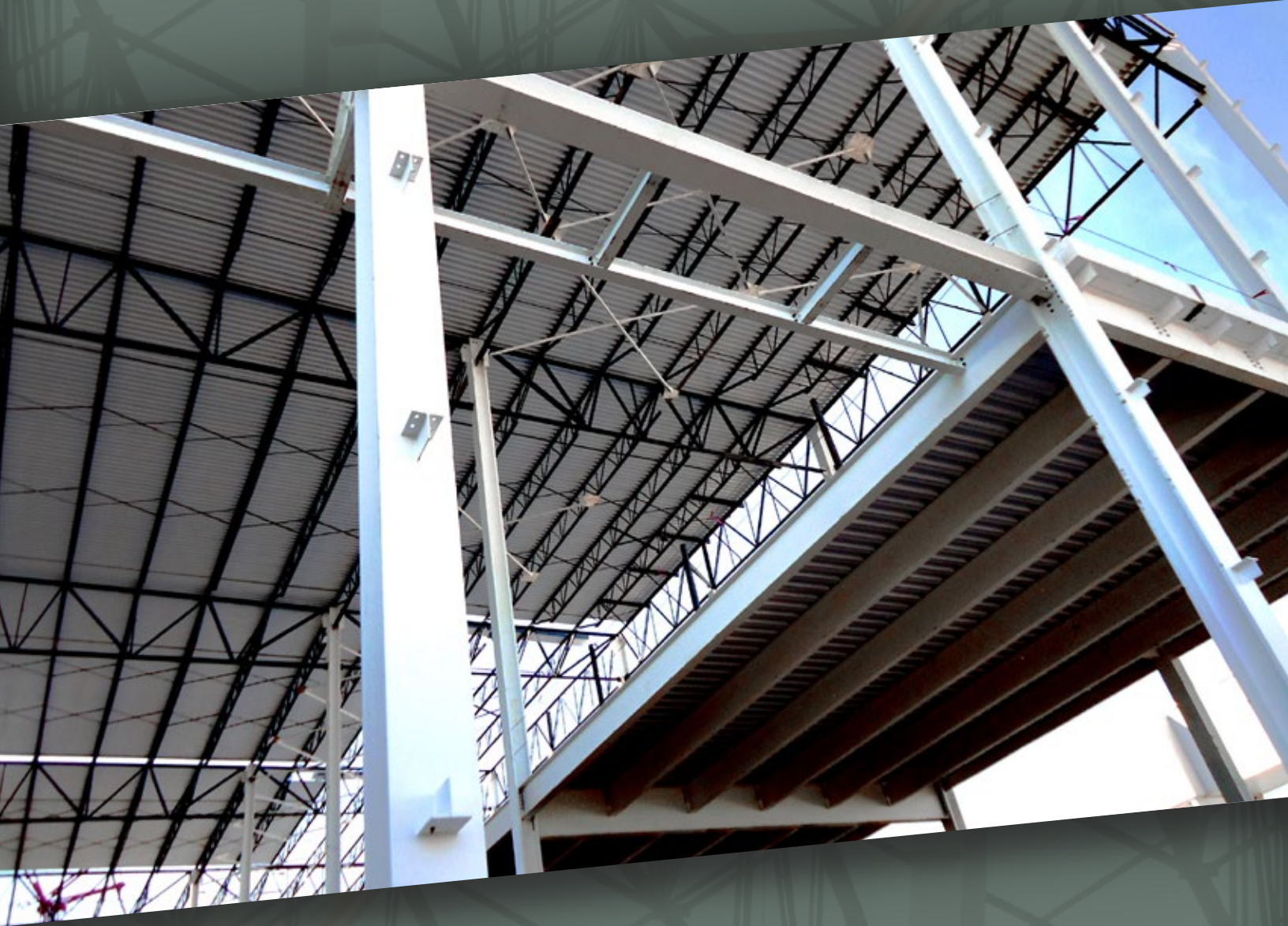


**THE LATEST TECHNOLOGY.
THE EXPERIENCE TO MAKE IT WORK.**



**LEVERAGING TECHNOLOGY.
CREATING SOLUTIONS.**



VULCRAFT CULTURE



Our Commitment to Safety

Our attitude toward safety couldn't be clearer - nothing is more important than safety. Absolutely nothing. It's part of our culture, our DNA. Our divisions embrace the standards set by CanOSH and OSHA to ensure that no one gets hurt on any of our shifts. Our level of safety is only accomplished through hard work and our continual improvement of an already impressive safety culture. We actively audit our own sites, but more importantly, we empower our teammates to make effective improvements all the time.

Our Commitment to the Environment

As a Nucor company, the largest recycling company in North America, Vulcraft and its Nucor Canada Products Group recognize their role in protecting the environment. We value the environment of the communities in which we operate and recognize its importance to our teammates, their families and our continued welfare. Protecting the environment is critical to our operations and the company's long-term success. Our guiding principles compel us to set the standard for environmental protection through responsible management, including compliance with environmental laws and regulations and continued research into new technologies and opportunities to minimize the impact upon the communities in which we operate.

That's why the Vulcraft plants that supply our products for Canada are ISO 14001 certified. As an ISO 14001 certified manufacturer, Vulcraft is dedicated to protecting our environment and reducing waste. Every Vulcraft teammate is responsible for environmental protection. We also require contractors, vendors and suppliers to comply with applicable environmental laws.

Our Commitment to Quality

Paramount to the success of Vulcraft is having all of our manufacturing centered right here in North America. We're able to hire the best talent, drive the most efficient business and produce the highest quality steel joists and steel decking for our customers. Our manufacturing facilities are strategically located throughout North America to ease transportation costs and timelines.

In addition, our manufacturing facilities are ISO9001 accredited to ensure the highest level of quality management to better meet every customer requirement. It also allows us to streamline efficiency, which helps contain costs, resulting in savings for our customers.

In the manufacturing of steel joists and joist girders, Vulcraft begins with high-quality steel produced by Nucor's steelmaking entities. Welding to exact specifications is the key to making structurally sound joists. To that end, Vulcraft welders are certified to Canadian Welding Bureau (CWB) - W47/W59 standards. Our plants are certified as Div. 1 steel fabricators by CWB per standard W47.1 and all welds conform to CSA W59. That's why quality is our most important product. You have our word on it.

Our goal is to take care of customers, and we accomplish this by being the safest, highest quality, lowest cost, most productive and most profitable steel and steel products company in the world. We are committed to this while being cultural and environmental stewards in our communities where we live and work.

***WE ARE SUCCEEDING BY
WORKING TOGETHER.***



VULCRAFT STEEL JOISTS

More than meets the eye

Great buildings are more than the materials they're made from. They are the combination of great minds, experience, cutting-edge technology, and world-class materials. Since 1946, Vulcraft has been pioneering the way in manufacturing the world's most advanced steel joists and steel decking. You don't have to look far to see their impact on the landscape. Evidence of Vulcraft's ingenuity and prowess dot the skylines of rural towns and urban cityscapes alike. What began as a steel fabricator in post-war North America has evolved through the decades to become one of the world's most technologically advanced manufacturers of steel joists and steel decking.



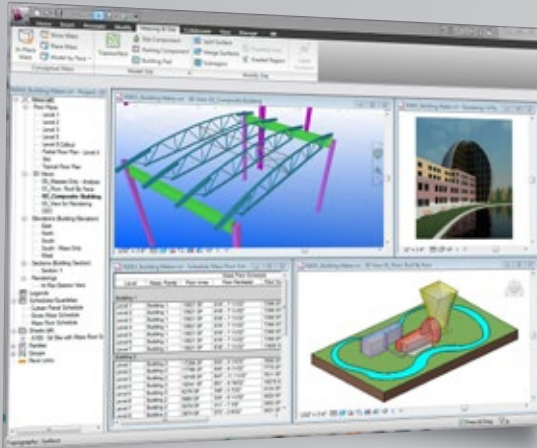
Made of more than steel.

The passion of Vulcraft is fostered by each teammate who shows up daily ready to make something great even better. We hire talent and dedication but most importantly, we hire good people. And it shows. Doing things right and making things right is an expressed part of our culture. It's a value that spills over in the actions of our employees in every community where Vulcraft resides. You'll find Vulcraft and our employees involved with local charities, fundraisers and sustainability efforts. Being good partners is as important to us as manufacturing great products.





LEVERAGING TECHNOLOGY. CREATING SOLUTIONS.



Today's building landscape is radically different from when we began in 1946, but our commitment to being on the forefront of technological development has never changed. Vulcraft is built on the idea of restless innovation. From precision joists to first-in-class applied joist technology, Vulcraft continues to leverage technology to create solutions that work for our customers.

VULCRAFT IS BUILT ON THE IDEA OF RESTLESS INNOVATION.

NuBIM™



TEKLA®

SDS/2
DESIGN DATA

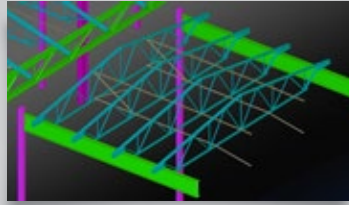


AUTODESK®
REVIT®

Vulcraft's technological leadership is centered on providing forward-thinking solutions for our customers – solutions that make our customers' jobs easier and more accurate, solutions like NuBIM™ Joist Plug-in for Tekla Structures, the NuBIM Vulcraft Add-in for Revit® Software and SDS/2 BIM detailing software. These programs, and others like them, satisfy our customers' needs to find better ways to build in an increasingly competitive marketplace.

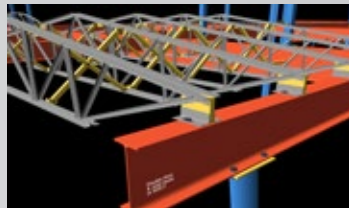
THE VULCRAFT BIM REVOLUTION

Vulcraft is pairing their proven track record of quality and service with the future of 3D modeling to give fabricators, erectors, general contractors, engineers and architects an edge over competitors in the market. Providing customers with a detailed model that can display a replica of their building, BIM leads to confidence and peace of mind for the life cycle of the project. Vulcraft's distinct advantages include actual joist configurations, bridging and specialty joist profiles.



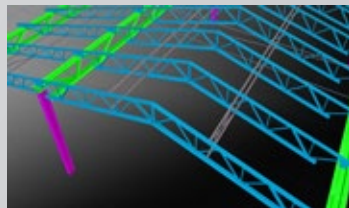
As-Built Configurations

Joists manufactured by Vulcraft can be supplied in BIM as they are actually built and put into the field. While viewing designs of the joists in BIM, contractors and other parties have the advantage of reviewing the actual sizes of the members and panel layouts.



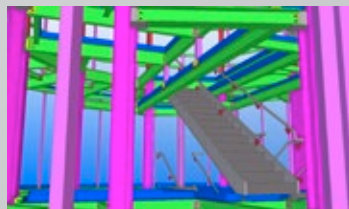
Bridging Components

To further aid the design and construction of every aspect, Vulcraft has developed a bridging component for BIM to accurately depict all structural elements. Not only does the duct work, wiring and piping have to weave around the joists, but also the bridging elements. Having these elements in place before final design and groundbreaking leads to decreased errors on the job site and saves valuable time and effort by specialty contractors.



Specialty Joist Profiles

Vulcraft engineers and designers have taken joists to another level offering specialty joist profiles such as bowstring, arched, scissor, double pitch, single pitch and gable joists. Utilizing these specialty joists in BIM enhances design review with customers, adds interest and depth and maintains the integrity of the structure in bearing a full load.



Linking Components

When used with an Integrated Project Delivery (IPD) system, BIM leverages the power of modeling to facilitate collaborative decision-making. IPD brings key management, fabricators and product manufacturing expertise together with design professionals and the owner earlier in the process. This produces a design that is optimized for quality, aesthetics, constructability, affordability, timeliness and seamless flow into life-cycle management.



NuBIM™ JOIST PLUG-IN FOR TEKLA STRUCTURES AND INTEROPERABILITY WITH SDS/2 MAKE BIM EVEN MORE POWERFUL

NuBIM Joist Plug-in for Tekla Structures

Now you can build and manage projects more effectively with Vulcraft's NuBIM Joist Plug-in for Tekla Structures. Vulcraft's NuBIM Joist Plug-in for Tekla Structures enables you to specify Vulcraft joists during the creation of the building model. The joist parameters from the model can then be exported directly into Vulcraft's detailing and design programs. Our NuBIM features are also included in SDS/2, out of the box. Using the SDS/2 BIM joists with the NuBIM preconfigured panels, you get the same functionality as our Tekla Plug-in allowing better communication with Vulcraft sales and engineering services.

This gives you the power to:

- Model joists correctly for increased accuracy and higher quality.
- Place joists in your Tekla model with a preconfigured web (panel) layout.
- Quickly see exactly how a joist will fit in your model.
- Identify clashes that can be fixed virtually, avoiding field problems.
- Coordinate with MEP systems and other building trades.

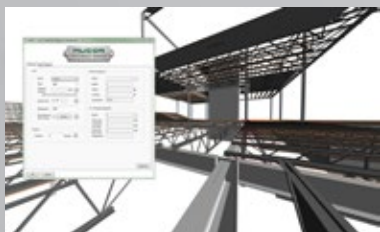
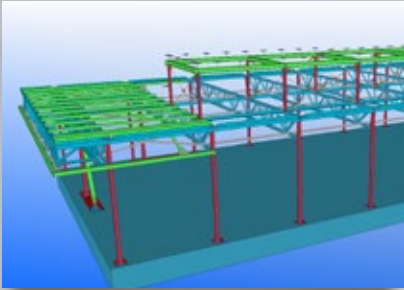
NUBIM VULCRAFT ADD-IN FOR REVIT SOFTWARE IS OUR NEW, USER-FRIENDLY SPECIFICATION TOOL.

Vulcraft Add-in for Revit

NuBIM Vulcraft Add-in for Revit Software is our new, user-friendly Revit specification tool, which makes specifying joists more efficient. By specifying joists on-screen in the design stage, you can place the joists you need directly in your model, spending less time juggling multiple joist families. With the fixed panel option, you can utilize your model to coordinate with other trades that interact with joists, giving you more control over your project's success.

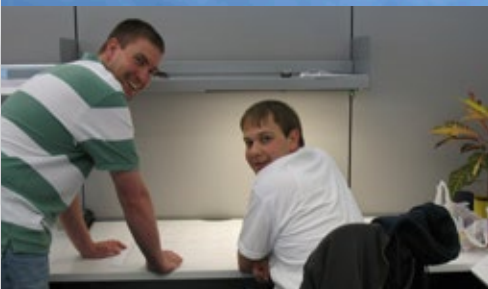
Future Focused

BIM and IPD systems have created a revolution within the construction industry. Vulcraft is dedicated to being at the forefront of BIM technology and continuing to provide leadership within the construction industry.



INNOVATION IN ACTION: NUCOR DETAILING

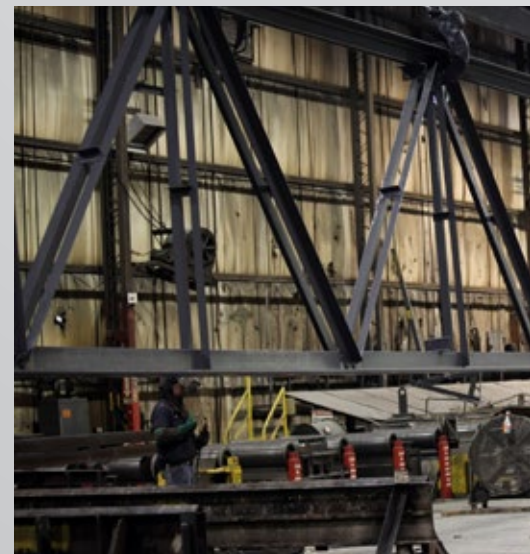
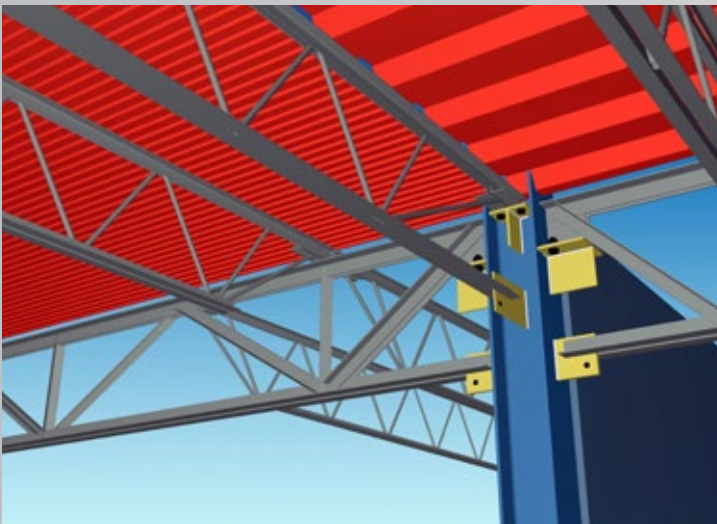
Vulcraft employs a staff of Canadian Registered Professional Engineers (P. Eng) for the design, manufacture and marketing of its products. Vulcraft's Canadian detailers, largely based in our Nucor Canada Products Group offices, are familiar with CISC, NBCC and Provincial that which help us deliver solutions to meet the local job site requirements. The Nucor Canada Products Group employs project managers and project coordinators to support the site and customers' project management teams in resolving construction issues.



Through our team of dedicated Canadian detailers, we are able to shorten detailing times, improve detailing quality and decrease detailing costs. We've taken bright minds, paired them with the industry's best software and created an environment that not only allows for better collaboration, but it also encourages it.

The Nucor Detailing Center, located in Norfolk, Nebraska, was created for the same reasons: to shorten detailing time, improve quality and decrease costs. The NDC building itself is a showplace for Nucor products.







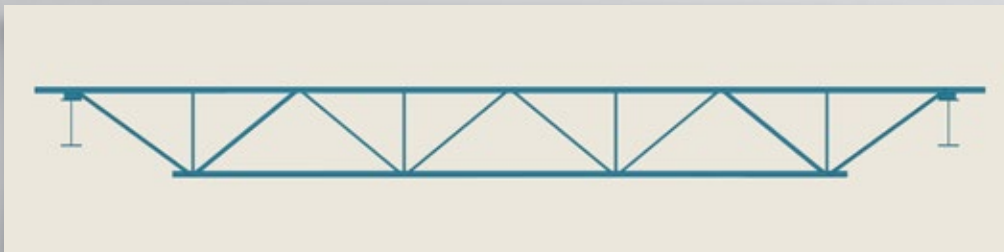
VULCRAFT JOISTS - NEVER COMPROMISE ON QUALITY

At Vulcraft, we built our reputation fabricating the best steel joists and decking. Our products are literally the backbones of buildings coast to coast and around the world. In manufacturing steel joists, there can be no compromise on quality. Vulcraft uses high-quality steel and welds to exact specifications, ensuring structurally sound joists.

The following represents an overview of Vulcraft's joist offerings.

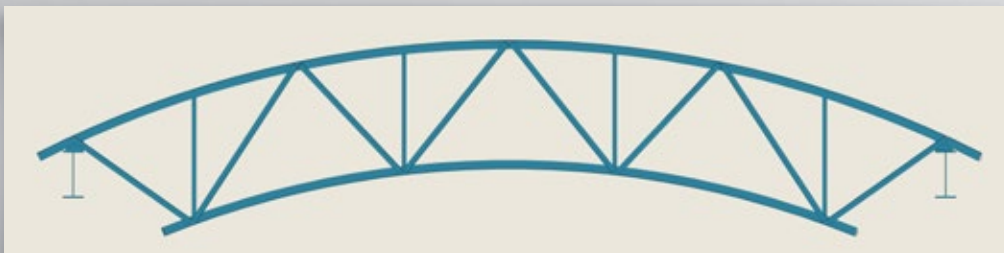
Parallel Chord Joists

Open web steel joists are an engineered, truss-like construction component used to support loads over short and long spans alike. Typically used in non-residential construction, steel joists and joist girders provide an economical system for supporting floors and roofs. All Vulcraft jobs are designed in accordance with the latest edition of the National Building Code of Canada or provincial building codes, whichever supersede. Joists, joist girders and steel members are designed per the latest edition of CAN/CSA.



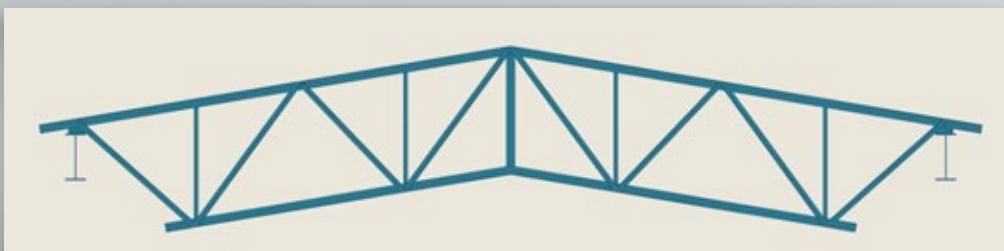
Arched Chord Joists

Arched chord joists consist of cold rolled top and bottom chords. The chords are at the specified uniform distance apart, at specified radii, with a modified Warren web configuration.



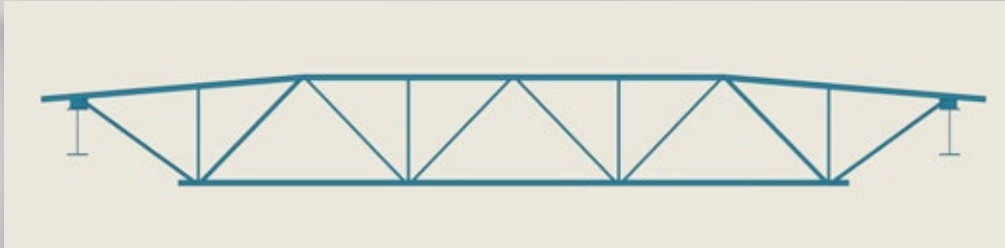
Scissor-Type Joists

Scissor-type joists have parallel double-pitched top and bottom chords with the ridge at the centerline. This pitch is constant from the bearing point to the ridge and is the same on each side of the ridge with a modified Warren web configuration.



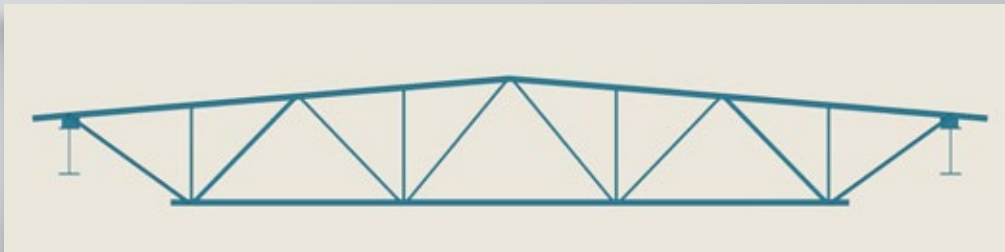
Multi-Pitched Top Chord Joists

Multi-pitched top chord joists have top chords with the multiple pitches and more than one ridge location. These also have a horizontal bottom chord with a modified Warren web configuration.



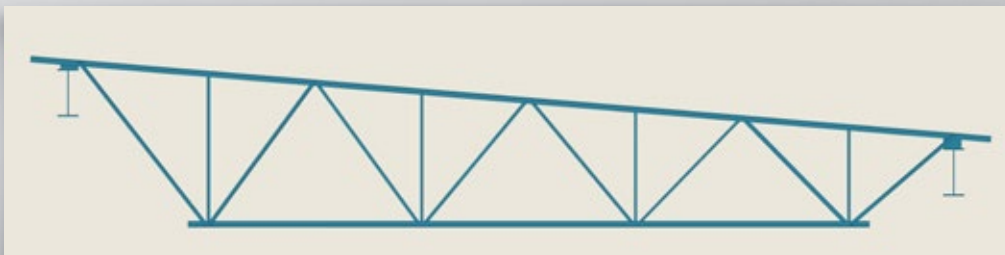
Double-Pitched Top Chord Joists

Double-pitched top chord joists have double-pitched top chords with the ridge at the centerline and a horizontal bottom chord with a modified Warren web configuration. The pitch is constant from the bearing points to the ridge with the maximum depth at the centerline.



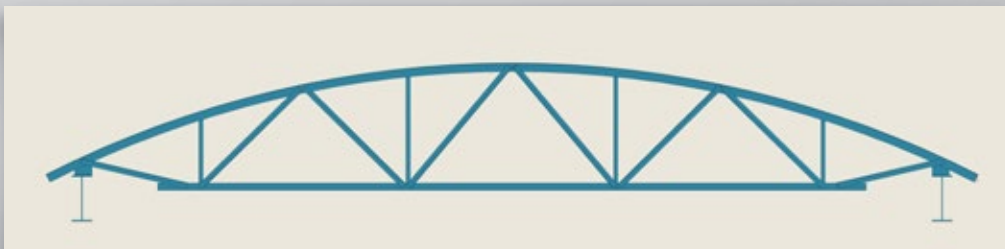
Single-Pitched Top Chord Joists

Single-pitched top chord joists have a pitched top chord and a horizontal bottom chord with a modified Warren web configuration. The pitch is constant from end to end with the maximum depth at the end of the joist.



Bowstring Joists

Bowstring joists consist of a cold rolled arched top chord and horizontal bottom chord with a modified Warren web configuration.



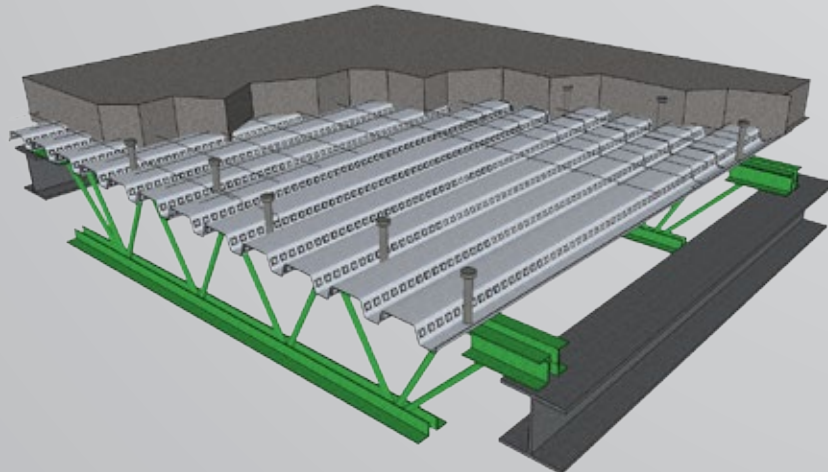
VULCRAFT COMPOSITE JOISTS

Composite steel construction has been recognized as one of the most economical systems for constructing building floors. Composite joists are designed to work in conjunction with the concrete in a flooring system. Shear studs are field-attached to the joists prior to the pouring of the concrete for the floor. In many applications, joists used in this type of floor system are an economical alternative to other methods.

COMPOSITE JOISTS ARE DESIGNED TO WORK IN CONJUNCTION WITH CONCRETE IN A FLOORING SYSTEM.

A composite joist provides a shear-stud connection between a joist top chord and its overlying concrete slab. The connection allows the steel joist and concrete to act together as an integral unit after the concrete has cured. Composite joists offer a number of potential advantages, depending on the project.

- Ideally suited for use in commercial construction where large column-free areas are desired.
- Simplified erection and connections due to standard end-bearing joist seats result in faster construction.
- Composite steel joists used in conjunction with Vulcraft composite steel decking is an effective and economical solution for long span floor systems.
- Floor-to-floor height can often be decreased as mechanical systems can be routed through the openings in the web configurations.
- Weight savings due to efficient composite design reduces building weight, thereby reducing foundation costs.
- Customized and optimum designs for loading and serviceability.





The most important advantages are speed and the ability to support long spans economically. Composite joists are perfect for 35' (11m) and longer spans. 30' x 30' (9m x 9m) bays are a common size in the non-composite and composite floors. Vulcraft can accommodate longer spans for a small increase in cost.

Composite joists also coordinate well with other building disciplines such as cast-in-place concrete, structural steel, masonry, light-gauge steel stud and insulated concrete forms.

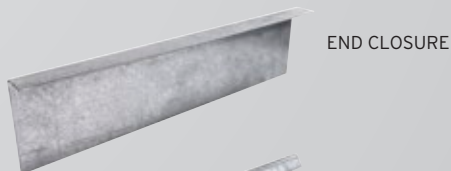
VULCRAFT STEEL DECKING



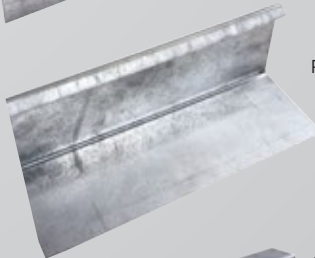
Steel roof and floor decks have long been recognized for their economy because of their light weight and high strength-to-weight ratio. They provide a durable and attractive roof or floor system for fast all-weather construction. Steel decks also provide excellent lateral diaphragm action thus reducing the necessity for structural bracing, and their incombustible nature assures architects, engineers and owners of excellent fire ratings.

VULCRAFT STEEL ACCESSORIES

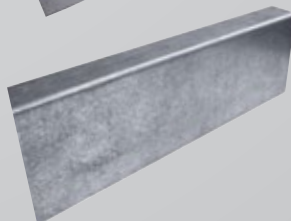
In addition to our full line of steel joists and decking, Vulcraft also takes the same care in manufacturing a range of steel accessories*. Standard accessories including rubber closures, welding washers and joist extensions are also available.



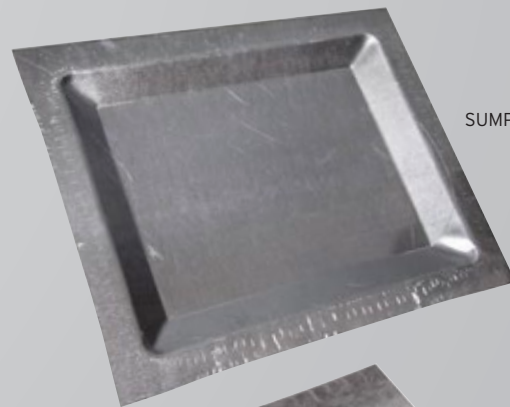
END CLOSURE



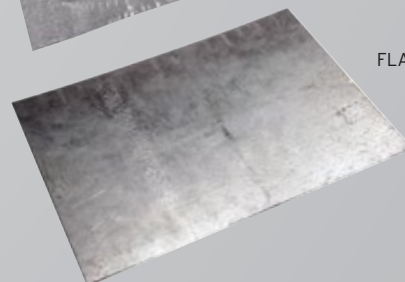
POUR STOP



GIRDER FILLER



SUMP PAN



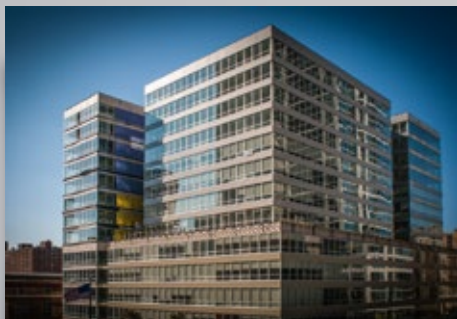
FLAT PLATE

*NOT TO SCALE

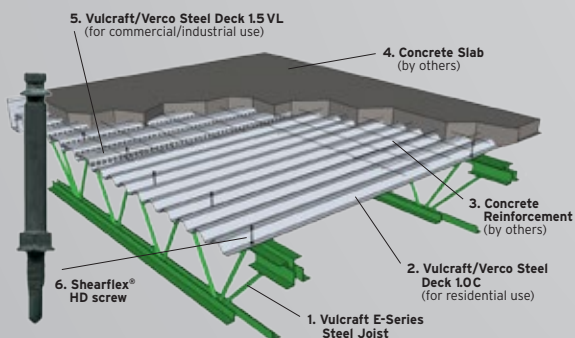
THE ECOSPAN® COMPOSITE FLOOR SYSTEM



Ecospan, a division of Vulcraft, manufactures the Ecospan Composite Floor System, an innovative, effective and economical method of providing all steel structural components for elevated floor construction. Plywood forms and shoring are not required, saving time and costly handling. Sub-trades can even begin work the day after concrete is poured. Joists are spaced at 4'-0" on center and the open web design allows easy access for HVAC and electrical trades. The Ecospan Composite Floor System has been successfully fire rated for one, two and three hours by Underwriters Laboratories, Inc. Tested by a renowned acoustical laboratory, the system also received a Sound Transmission Classification (STC) of 57. Furthermore, additional tests performed with a variety of common flooring materials revealed an Impact Insulation Classification (IIC) of 50 or greater (the IBC Code minimum) in all cases when typical sound attenuation materials were used.



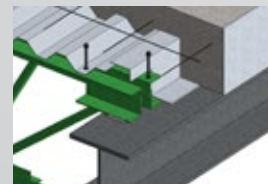
A safe, innovative choice, Ecospan helps reduce building costs while offering the benefits of sustainable building materials that qualify for LEED® certification. Made with 99% recycled steel joists and more than 70% recycled steel decking, Ecospan provides open web structural components with a lighter weight composite design that's ideal for elevated floor construction in commercial/industrial use including metal buildings.



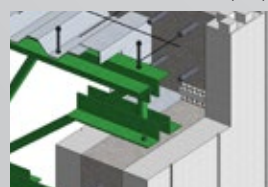
The Ecospan Composite Floor System uses a unique configuration of components with high strength-to-weight ratios that allow for longer spans, shallow floor depths, greater rigidity and enhanced performance - without sacrificing aesthetics.

Ecospan is compatible with any wall framing system.

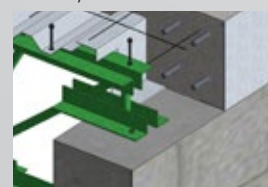
Structural Steel



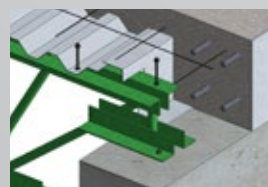
Insulated Concrete Forms (ICF)



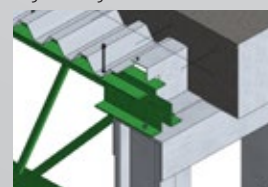
Masonry



Concrete

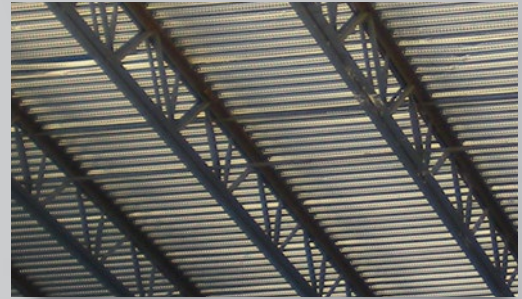
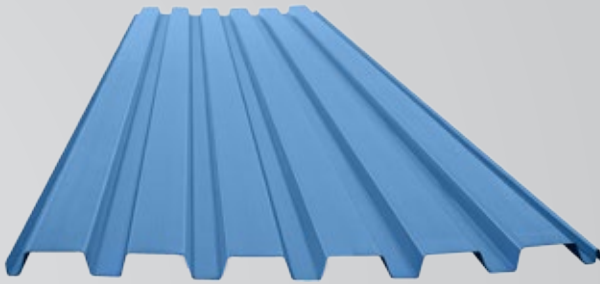


Light Gauge Steel Stud



VERCO DECKING

Verco, a Nucor company, offers a complete range of roof deck profiles with various methods of attachment that will satisfy any project requirements. The primary purpose of steel roof deck is to support vertical loads and the weather resisting system, such as insulation, roofing and waterproofing materials. Additionally, roof deck serves as a horizontal diaphragm, transferring shear loads due to earthquake or wind forces to the lateral force resisting system. Verco Decking is noted for its innovative development of steel roof decks including the use of shear elements, such as the ShearTranz systems, and mechanical side lap connections with the PunchLok® system.



All of Verco's profiles are available in an acoustical or cellular version for sound attenuation or to provide a different finished look than standard deck profiles.

VERCO OFFERS A COMPLETE RANGE OF ROOF DECK PROFILES.

Vulcraft and Verco manufacture many different types of deck, including roof deck, floor deck, composite floor deck and cellular deck. The deck is accurately roll formed in varying configurations on the most modern high-speed roll forming equipment available. We offer a selection of four finishes: primed, painted, galvanized and black (uncoated).

Nucor and affiliates are manufacturers of steel products, with operating facilities primarily in the U.S. and Canada. Products produced include: carbon and alloy steel - in bars, beams, sheet and plate; steel joists and joist girders; steel deck; fabricated concrete reinforcing steel; cold finished steel; steel fasteners; metal building systems; light gauge steel framing; steel grating and expanded metal; and wire and wire mesh.

Harris Steel Group, a wholly owned subsidiary of Nucor, has over 80 strategically located facilities in Canada and the United States. Through these facilities they service a diverse customer base within the construction, industrial and mining markets.

Vulcraft and **Verco** have a long history of success in the joist and deck business. Along with the expertise and experience, we have grown and developed into a modern company. Employing some of the latest technology, in the fabrication facility as well as in the office, Vulcraft has the capability to provide quality products on time and products that fit the first time.



**LEVERAGING TECHNOLOGY.
CREATING SOLUTIONS.**

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Vulcraft - Nebraska
402.644.8500

Vulcraft - Alabama
256.845.2460

Vulcraft - Texas
936.687.4665

Vulcraft - Indiana
260.337.1800

Vulcraft - Utah
435.734.9433

Vulcraft of New York
607.529.9000



VERCO DECKING **www.vercodeck.com**

Verco - Phoenix, AZ
602.272.1347

Verco - Seattle, WA
425.883.8250

Verco - Salt Lake City, UT
801.263.3311

Verco - Northern California
916.488.8180

Verco Southern California
714.939.9128

ECOSPAN **www.ecospan-usa.com**

Ecospan National Sales
678.965.6667

