

Prefabrication Capabilities

MODULAR STRUCTURAL SUPPORT SYSTEMS



UNISTRUT
MIDWEST





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From basic fitting preloading and cut-to-size channel to delivering and installing a fully constructed support solution, prefabrication can benefit projects of all sizes.

Reduce on-site man-hours, project costs, and waste by beginning your construction off-site with Unistrut Midwest's prefabrication services.

PREFABRICATION ADVANTAGES



Speed to Market

Prefabricated components arrive kitted and jobsite-ready, cutting installation time by up to two-thirds compared to traditional welded steel.



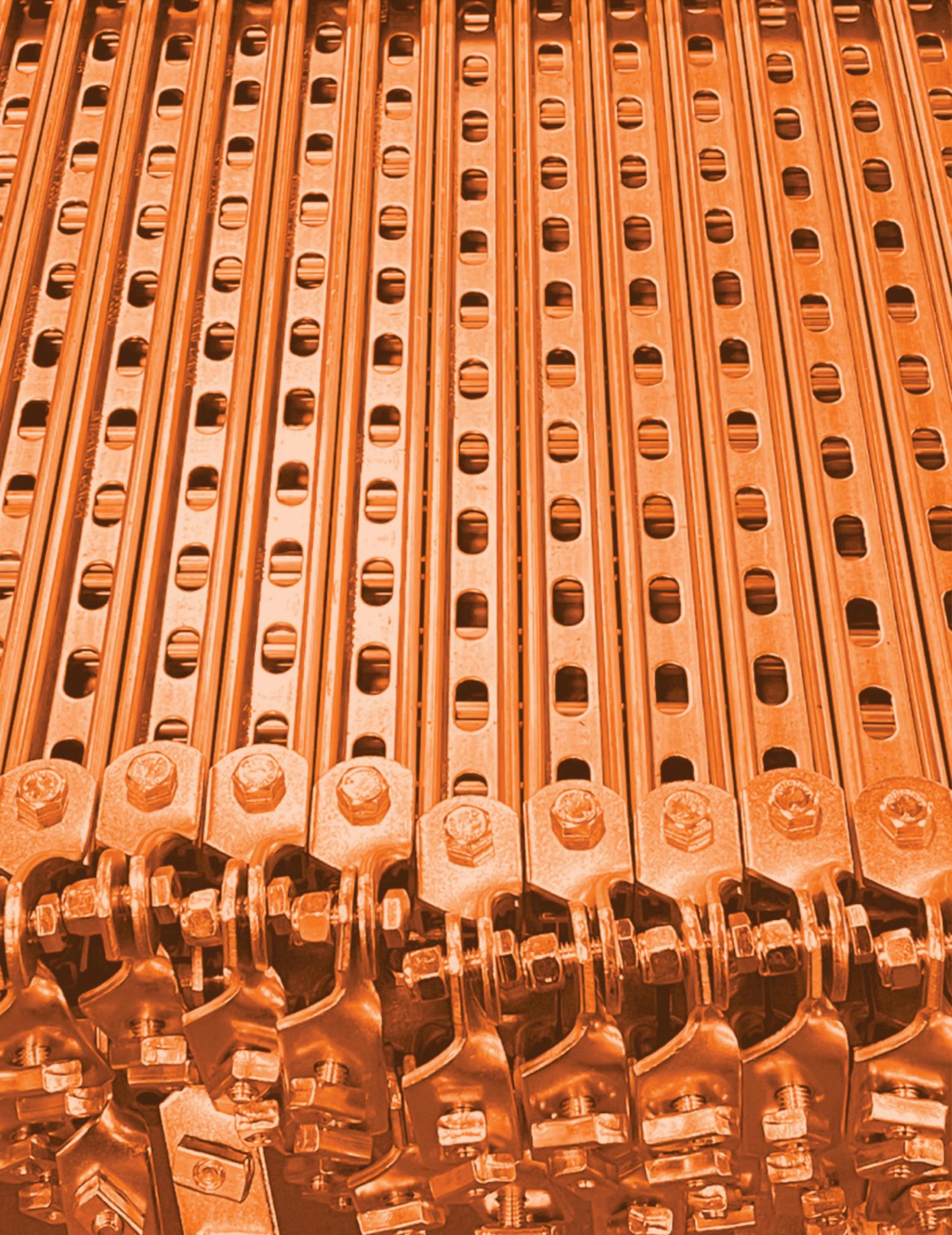
Increased Safety

Off-site assembly shifts labor to controlled warehouse environments, improving ergonomics and reducing jobsite hazards.



Flat-Packed Shipping

Compact and efficient, flat-packed solutions lower storage needs and reduce freight costs, often saving clients 5x to 30x on delivery.

A close-up photograph of numerous metal struts stacked vertically. Each strut has a series of oval-shaped holes along its length. At the bottom of the stack, several preloading fittings are visible, each secured with a hexagonal nut. The entire scene is bathed in a warm, orange light, creating a strong sense of depth and texture.

Services

Build smarter with Unistrut Midwest's prefabrication services.

From preloading fittings to cut-to-size strut and custom kitting, our prefabrication options take care of the basics so your team can stay focused on the build. Designed for efficiency, accuracy, and less jobsite waste, these services help keep your project on time and on budget.

Prefabrication for even the most complex support structure starts with the basics: preloading fittings, cutting strut to size, and kitting and bundling.

Basic Fitting Preloading

Save valuable time by allowing our team to preload hardware on fittings.

- Ideal for Medical Support Systems and Data Center Ceiling Grids
- Reduce onsite man-hours by using our labor to complement your own



Cut-to-Size Strut Channel

Reduce waste when our team executes basic cuts in our warehouse on all Unistrut Channel, Telespar Tubing, Unistrut Concrete Inserts, and Sikla Modular Steel needed for your build.



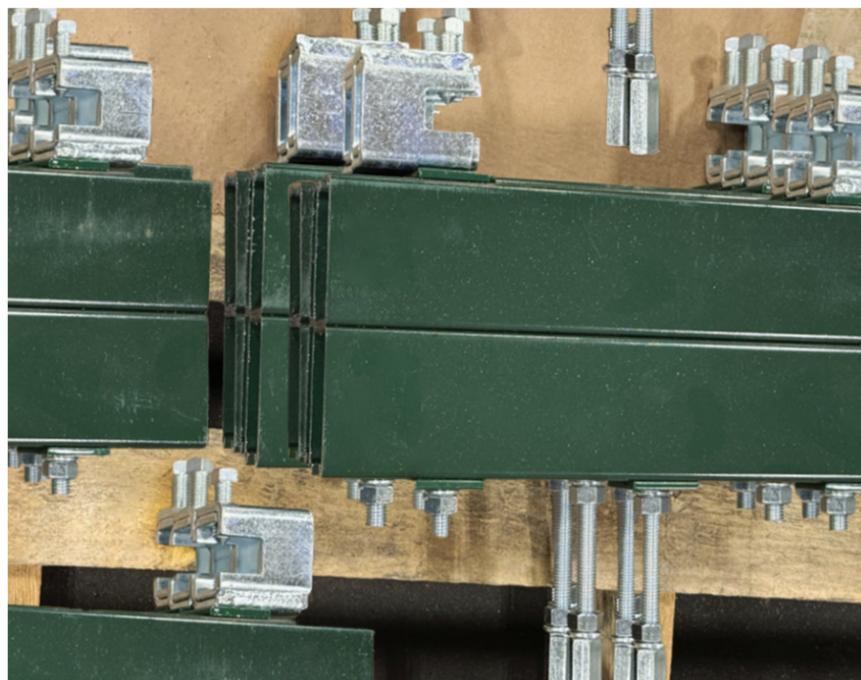
- Basic tolerance is 1/8", strict tolerance under 1/16" available through a custom quote
- Pricing is based on the type of channel and quantity of cuts: single shallow strut, single deep strut, back-to-back shallow strut, back-to-back deep strut, concrete inserts, tubing, and Sikla siFramo



At Unistrut Midwest, we offer these techniques as standalone prefabrication services so you can create the prefabrication plan that works for your project.

Kitting and/or Minor Fabrication

Minimize installation time and eliminate confusion when our team packages channel, fittings, and hardware in easy-to-use, clearly labeled kits.



- Includes assemblies with cut-to-size channel packaged with fittings, threaded rod, and hardware
- Parts labeled and packaged for individual project areas
- Ideal for beam clamps with threaded rod assemblies, threaded rod drops assemblies, OEM customer component kits, medical equipment support kits, unassembled MEP support kits

Application Types:

- Beam Clamp with Threaded Rod Assemblies
- Threaded Rod Drops Assemblies
- OEM Customer Component Kits
- Medical Equipment Support Kits
- Flat-packed MEP Support Kits





Solutions

Tackle complex builds with Unistrut Midwest's prefabricated support systems.

From trapeze and MEP supports to racks, grids, and catwalks, our prefabrication services are designed for repeatability, precision, and speed. Fully customizable and delivered jobsite-ready, these solutions reduce labor, minimize waste, and keep even the most demanding projects on schedule.

Data Centers

The need for new and updated data centers grows by the day, tightening timelines and squeezing resources. When every week that a data center is offline costs hundreds of thousands of dollars, speed to market is critical.

Our team specializes in prefabricating modular mission critical solutions in order to get your systems up and running and keep them that way.



30-60%
faster installation time on site

Data Center Applications

Leverage prefabrication for tight timelines

Our team specializes in prefabrication for data centers, leveraging modular systems Unistrut and Sikla siFramo. These materials utilize bolted connections as opposed to welded, simplifying the construction of everything from repeatable ceiling grid rails to fully constructed multi-trade racks. Completing these builds off site and in parallel with primary construction allows installation times of hours instead of days or weeks.

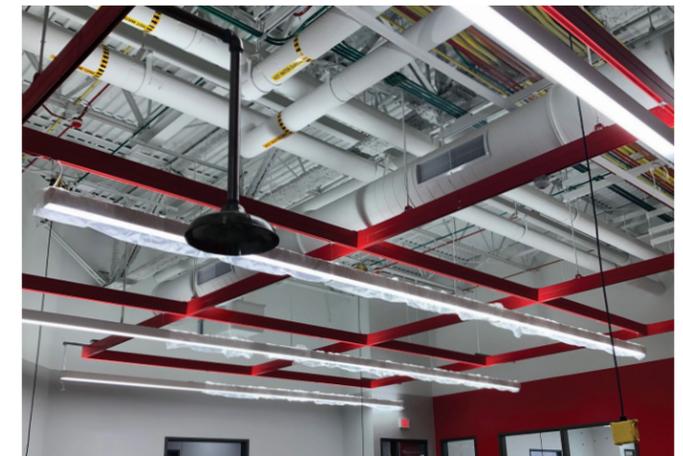
Planning for the future

Hyperscale data centers are becoming more prevalent as technologies advance and AI becomes more popular. Our prefabrication services are an ideal solution for constructing hundreds of thousands of square feet of support structures in a matter of weeks. And our preferred materials, Unistrut and Sikla siFramo, are capable of handling the more demanding and sustainable solutions coming to the forefront, like liquid server cooling.

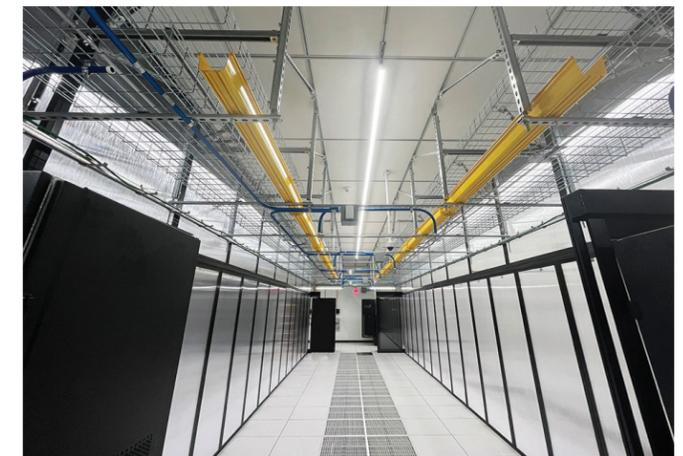
Key features

- Design and take-off services available, including engineering analysis in design phase
- Pre-cut channel, pre-loaded fittings and hardware, flat-packed and labeled delivery, and fully assembled modules shipped directly to the job site, ready for installation
- Ideal for mechanical, electrical, and plumbing secondary steel supports
- Engineering support and P/E stamped drawings also available

Ceiling Grids



Cable Tray Supports



Underfloor Seismic Supports and Bracing



Advanced Manufacturing

Time is precious in the growing semiconductor manufacturing space thanks to skyrocketing demand. Leveraging prefabricated secondary steel support structures optimizes your schedule while minimizing disruptions.

Our team specializes in the prefabrication process from start to finish, from custom engineering and design services, to the largest on-hand inventory of modular support products in the US.



200-400%
efficiency over traditional structures

Advanced Manufacturing Applications

Customized turnkey solutions, on time and in budget

Offsite prefabrication gives you the option to build your secondary support structures in parallel with your primary structure, maximizing your schedule and freeing up your team. Because these support structures are built with modular Unistrut and Sikla materials, they are delivered on site ready for installation. They can then be installed in as little as an afternoon, not the weeks required for traditional construction methods.

Your partner from start to finish

Our team specializes in the entire prefabrication process, streamlining operations and taking to-dos off your list. We do it all under one roof, adapting our expertise to meet your needs. We offer engineering and design, providing P/E stamp drawings, BIM coordination, and shop drawings for any of our designs. With the largest on-hand inventory of Sikla and Unistrut products in the United States we keep builds on schedule. Our top-tier facilities and dedicated teams maximize our prefabrication capabilities, handling projects of any size, from fully assembled modules to flat-packed kits.

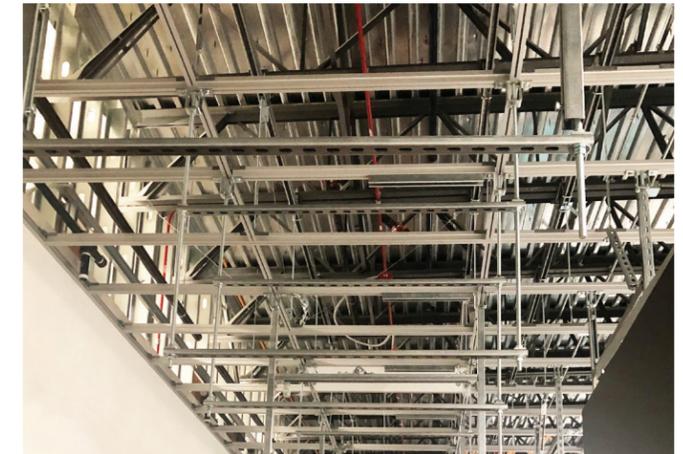
Key features

- Design and engineering support available with material options including Unistrut, Sikla, and Telespar
- Prefabrication services available for mechanical and hybrid skids, volumetric riser, pipe, corridor, and electrical conveyance racks
- Catwalk prefabrication available for handrail and grating supports as well as drops

Volumetric and Multi Trade Racks



Trapezes



Flat Packed Rack Systems



Healthcare

Our team designs, engineers, and installs flexible, secure support systems for X-ray equipment, surgical lights and booms, CT injectors, monitors, and other essential healthcare tools.

We have over seven decades of experience engineering and installing proven support systems for specialized medical equipment in healthcare facilities worldwide.

Fully prefabricated boom supports installed on site in
2-3 hours



Healthcare Applications

Decades of experience in reliable healthcare support

Our decades of experience not only help when designing major support systems, but also in catching crucial details. Equipment like CT injectors, monitors, and televisions are low weight items that are often forgotten about until late in the design and construction process. Our team plans for these necessities up front, and we are no stranger to stepping in and creating these supports in existing structures.

Infinite adaptability with secure bolted connections

Our metal framing systems provide secure bolted connections with built-in adjustments; allowing the system to be fine-tuned to precisely match healthcare site conditions and adapt to a wide range of environments and design parameters. The bolted connections can easily be altered in the event of renovation or the addition of new equipment which ensures cost-effective upgrades and future integration of new technologies. These alterations do not require welding, eliminating the concern for smoke or odor in a healthcare setting.

Key features

- Fully assembled, flat-packed, and delivered directly to the job site, ready for installation
- Customizable to meet any project demands
- Prefabrication services include cut finish rails, pre-loaded fitting kits, pre-assembled drops/braces, and kits labeled by room or support number to match drawings

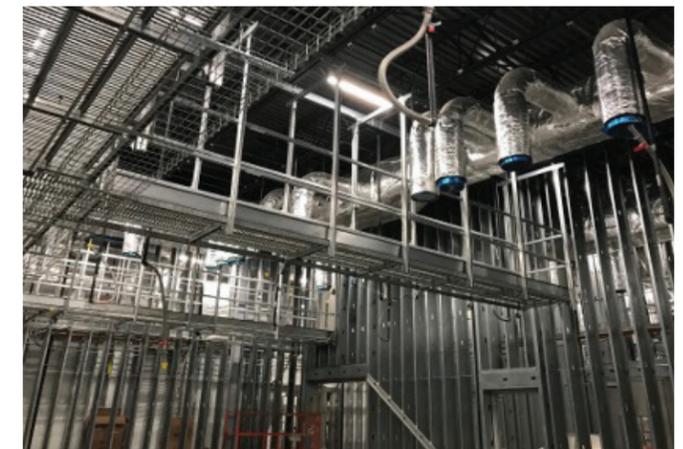
Medical Equipment Supports



Riser Racks



Catwalks and Roofwalks



Commercial Construction

The construction process often means juggling contractors and competing timelines while trying to avoid miscommunications and errors that can push back installation and drive up costs.

Our team is an all-in-one partner with decades of experience in designing, sourcing, prefabricating, and installing support and access systems that make efficient use of all available space.

300%
faster than traditional welded
steel support structures



Commercial Construction Applications

Maximize capabilities with efficient use of space

Increase your available square footage without expanding your footprint with ceiling grid, roofwalk, and catwalk systems. Ceiling grids create universal support systems overhead, freeing up floor or wall surfaces, while roofwalks and catwalk systems provide passage to previously dangerous or inaccessible areas, tapping into unused space. By leveraging vertical and rooftop space, you can maximize the efficiency of your build without the cost of additional square footage.

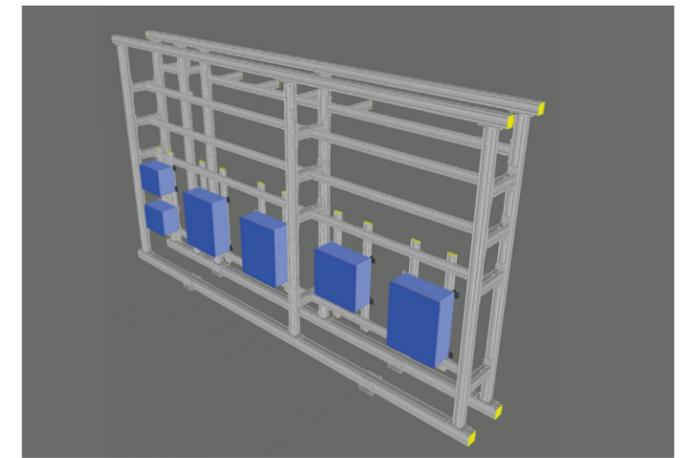
Leverage modular systems for infinite adjustability

We prioritize adjustability through the use of Unistrut and Sikla siFramo modular materials. These weldless, bolt-connection materials simplify the building and adjustment process, requiring only hand tools to adapt to anything from an incorrect site measurement during installation to adding a new HVAC system down the line. By leveraging Unistrut and Sikla siFramo support systems, our team is able to create versatile solutions that can be easily reused and adjusted as your operations grow.

Key features

- Design and engineering services available, as well as take-off or build-to-print options, and shop drawings with P/E stamp engineering when required
- Prefabricated, fully kitted, flat-packed kits, and fully assembled solutions available
- Ideal for corridor, riser, pipe, or electrical rack applications

Electrical Supports



Duct and Pipe Supports



Rooftop Crossovers





Unistrut Midwest is proud to be a division of NEFCO, with 70+ locations nationwide.

**Unistrut Midwest
Headquarters**
1201 Hillsmith Drive
Cincinnati, OH 45215