

# DESIGN/BUILD CAPABILITIES

Medical Supports, Structural Ceiling Grids,  
Roofwalks and Catwalks



**Atkore**<sup>™</sup>  
Unistrut  
Construction

# QUALITY INSTALLATION



## Quality Installation from a Quality Manufacturer

Unistrut Construction, the installation arm of Unistrut metal framing has been in business for over 60 years. Our capabilities include; conceptual design, engineering and installation services regarding strut related applications. This design/build philosophy has made us one of the only nationally recognized installers for special metal framing application projects.

## Some of those special application projects include:

- Medical Equipment Supports
- Grid Applications
- Catwalks/Mezzanines
- Roofwalk Systems
- Fall Protection Systems

Whatever your application Unistrut Construction has the expertise, service and workmanship to perform a top-quality installation.



# PRODUCT EXPERTISE, INSTALLATION EXPERIENCE – ONE SOURCE

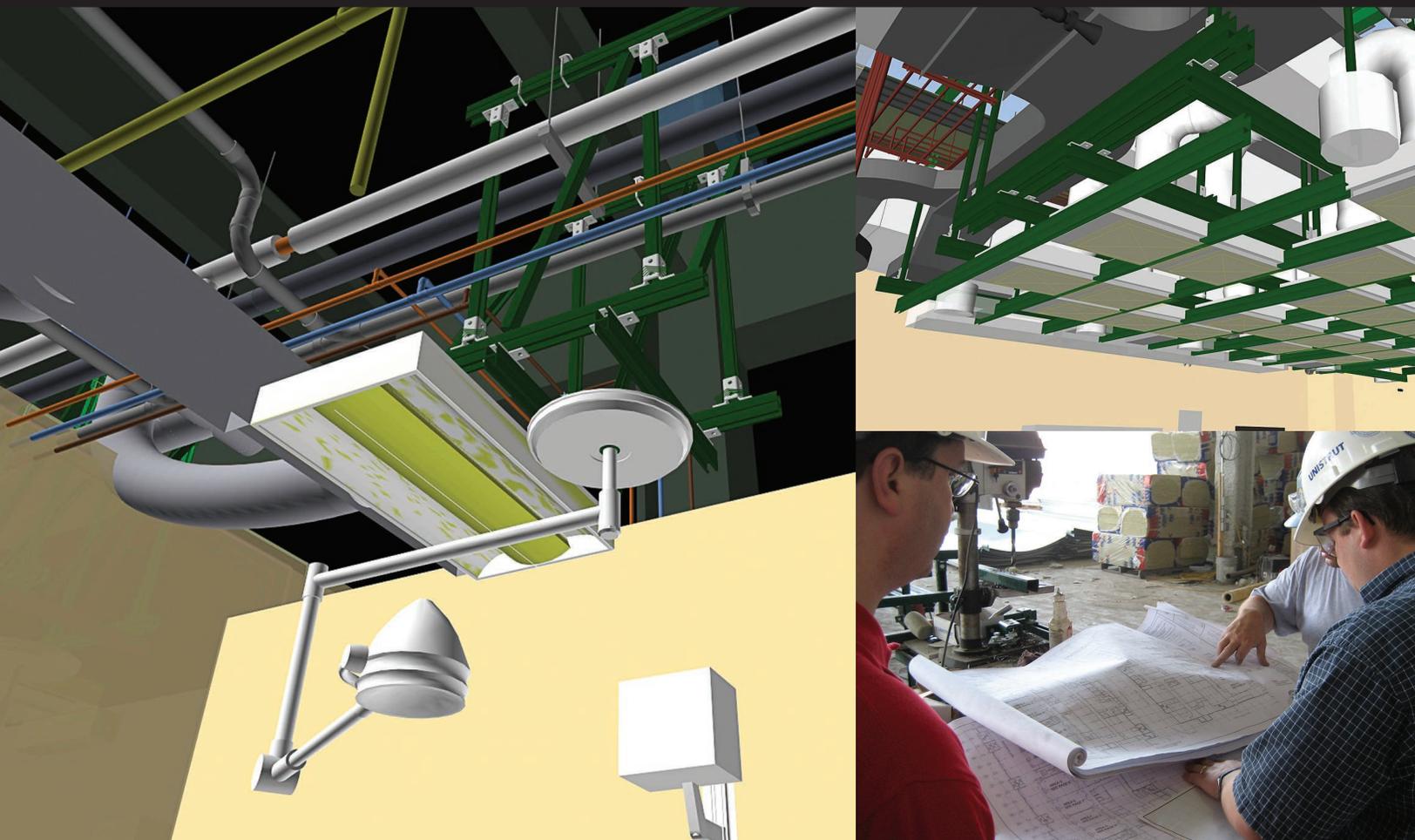
Unistrut is one of the only metal framing producers that offers complete design/build services for all of its products. Since we are the manufacturers, our product expertise is unparalleled. The inherent advantages of purchasing the products and having the installation done by the same source are apparent in each and every project we complete.

Our goal on every project is threefold: complete the job on-time, on-budget with unsurpassed workmanship. An experienced, highly-skilled and well-trained installation team makes carrying out these goals very achievable. Our success rate is proven by the large volume of repeat business and longevity we have experienced.

Whatever your requirement, Unistrut Construction has the skill set to complete your job in a professional manner.

## Unistrut Construction features

- Complete Design/Build Services
- Engineering Skills
- Trained Installation Crews
- 3D/BIM Modeling and Coordination Capabilities
- Wide-Range of Product Experience
- Special Application Experts



# MEDICAL APPLICATIONS

Unistrut Construction has worked extensively with medical equipment manufacturers, general contractors, architects and hospital facility managers to develop support systems that meet today's demanding equipment supporting and facility requirements.

From basic radiology equipment to large integrated boom systems, we can design and install the support system needed to meet your requirements.

## Our capabilities include, but are not limited to:

- Boom Supports
- CRT Monitor Supports
- Radiology/Cath Lab Supports
- Service Column Supports
- Exam/Surgical Light Supports
- Gas Column Supports
- Injector System Supports
- Lead Shielding Supports
- Physical Therapy Supports
- Patient Lift System Supports





## MEDICAL SUPPORTS

### case study

**Task:** A major urban hospital in the Northeast was undergoing a \$319 million renovation. This included both operating and exam rooms that required overhead supports. This project proved particularly challenging since, the final medical equipment was undetermined, requiring that the supports be designed and installed to house various types of equipment. This was further complicated by the fact that several different brands were being considered and each one had a different set of requirements. Additionally, obstructions and existing site conditions made the work space a challenge. A tight turnaround time required fast, accurate decision-making and implementation.

**Solution:** An initial site review by our engineering and project management staff revealed that additional engineering would be required by our in-house team of experts. After extensive review and discussion the crew was able to determine the optimum design load criteria to accommodate several different manufacturers for several different types of equipment. Our wide-ranging experience with the various products and manufacturers being considered for the installation was a major asset in completing the design.

Once on-site, the installation team was able to navigate the existing duct work, piping, lights/ diffusers through trapeze, span, and bridge methods. This would not have been possible without the adjustability and flexibility that are an integral part of the Unistrut product. Additionally, the elevation of each support needed to be coordinated with other contractors on the job-site in order to ensure that their products could be installed as efficiently as possible. The final result was a team effort that led to a successful renovation of a facility that is vital to the urban community it serves.

# GRID APPLICATIONS

The industrial, commercial and architectural construction markets have relied on the flexibility of Unistrut metal framing structural ceiling grids for years. Ceiling grids convert otherwise unusable overhead space into flexible valuable support space. The versatility of Unistrut ceiling grids allows attachments to be made anywhere along the channel opening without the time-consuming fastening methods of welding and drilling.

Unistrut ceiling grids are designed specifically to the requirements of each particular application and can be designed to accommodate existing obstructions or site conditions.

## Our structural ceiling grids are ideal for:

- Data Grids – Hot/Cold Isle
- Telecom Grids
- Industrial/Commercial Structural Multi Purpose
- Architectural
- Retail
- Cleanroom
- And more

## GRID APPLICATIONS case study

**Task:** A building contractor was hired to complete a major expansion of a large manufacturing facility. The primary obstacle the project faced was that a large number of subcontractors needed to work at a height that was not easily reachable and may not have the necessary structural support to hold the workers and attachments. The contractor must determine the optimum way to provide access to the areas with the structural integrity required to support the labor force and their numerous attachments.

**Solution:** Our engineering staff conducted an extensive on-site assessment and determined that an overhead grid was the ideal solution. This would eliminate any concern over structural integrity by limiting subcontractors' need to access heights and decrease the number of attachments made to the existing structure.

The engineering team developed a design concept that could be easily executed by our experienced installation crew. This resulted in a finished product that enabled other subcontractors to install their equipment at a safe, cost-effective and efficient height.





## ROOFWALKS case study

**Task:** A pharmaceutical manufacturing plant is undergoing mechanical and HVAC upgrades. The project will require frequent access to the roof by several contractors working on different aspects of the job. The two chief concerns are the safety of the workers and potential for roof damage due to the inordinate amount of traffic the task will require.

**Solution:** Our team went to the jobsite to view the plans for the facility upgrades. It was determined that an engineered rooftop walkway would achieve the goal of keeping the workers safe without damaging the roof. This would be a permanent solution that could be utilized for ongoing routine maintenance such as replacing filters, belts and other standard items.

The roofwalk was constructed with Unistrut Interlock Grating Planks. The engineered materials allow a quick and easy installation for our crew. Handrails in compliance with OSHA standards were also added. This made for a simple yet effective solution. Roofs can be easily damaged by foot traffic and worker safety is paramount in every situation.

# GRATING APPLICATIONS

## Roofwalk Systems

Roofwalk systems offer a low-cost solution to rooftop damage caused by foot traffic. On membrane, built-up, foam and coated roofs, they protect against puncture, abrasion and wear, while providing a safe, clearly defined, anti-skid walking surface.

On standing-seam metal roofs, workers can walk safely on the same anti-skid surface without causing seam distortion or harmful stress to the roofing panels. Both of these systems utilize special hardware anchoring systems that do not require roof penetrations.

## Our capabilities include:

- Lightweight Aluminum Planks
- Non-Penetrating
- Smooth & Anti-Skid
- Safe Access

## Catwalk Systems

Catwalks offer a cost-effective solution for the conversion of unusable overhead space into an efficient maintenance walkway space.

Utilizing Unistrut United Interlock Grating, these systems are strong, lightweight, economical and versatile. When designed in combination with our Unistrut Metal Framing Systems as the support structure material, Unistrut Construction Catwalk Systems can be installed quickly and efficiently because the need for welding is virtually eliminated.

As with all of our turnkey projects, our roofwalk and catwalk systems are designed specifically to meet customer requirements and can be planned to accommodate existing obstructions or site conditions. If desired, additional services such as structural calculations or engineering seals can also be provided.

## Fall Protection Systems

Unistrut Construction also has the capability to provide turn-key engineered fall protection systems that meet government requirements. For complete details see our Unistrut Fall Protection brochure or visit [atkore.com/unistrutconstruction](http://atkore.com/unistrutconstruction).



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Unistrut Construction ▲ Cope ▲ US Tray ▲ Calbrite ▲ Calbond ▲ Kaf-Tech  
Columbia-MBF ▲ Eastern Wire + Conduit ▲ ACS/Uni-Fab ▲ Cii  
Power-Strut ▲ Calconduit ▲ Razor Ribbon ▲ Calpipe Security  
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