

Structural Fabrication

Structural steel fabrication is the process of bending, cutting and modeling steel to create a structure. For structural steel fabrication, steel parts are often put together to create different structures of predefined sizes and shapes

Structural fabrication refers to the cutting, bending, and assembling of steel to create different products. During structural steel fabrication, several pieces of steel are combined together to form different structures of predefined sizes and shapes intended for assembly into buildings, industrial equipment, tools, and various other final products.





What is structural steel fabrication?

It doesn't mean any type of welding that strengthens or repairs steel. Steel fabrication is a special skill that requires experience transforming raw components into products that meet and exceed various standards and codes. Here is what goes into the fabrication of structural steel

The Stages of Structural Steel Fabrication:

Cutting Structural Steel

First, structural steel is cut by fabricators through shearing, sawing, or chiseling with different tools that include plasma torches, water jets, and laser cutters. This is just the first stage of structural steel fabrication that is typically done in a manufacturing facility that is closed and has abundant safety precautions in place to protect workers.

Bending Structural Steel

The second step to fabricating structural steel is to bend the alloy. Fabricators either hammer the steel manually or use machines. The decision on whether to do one or the other usually depends on how much repetitive bending the project requires. The more repetitive bending needed, the more likely the fabricator will rely on machinery.

Assembling Structural Steel

The final step of creating a structure involves combining the different parts of steel together. This is also usually done by welding—the application of heat to the steel parts to slowly join them together—but the pieces can also be bound together with adhesives or rivet construction.

To shape the pieces of steel into a structure, fabricators use equipment and design software to supervise the project. Regardless of the industry, most steel sections are produced in the facility and only afterward assembled on-site.

Structural Fabrication Section

