

# BRING YOUR VISION TO LIFE 50% FASTER

Supercharge your project schedule! A fabricator can work on your steel package during site preparation and foundation work, taking full advantage of controlled shop conditions to give you high-quality steel and reduce the number of onsite fixes that delay schedules.

Steel will arrive at the jobsite as soon as it's needed, and erection takes place at lightning speed in any season without waiting for forming, shoring, or curing.

Steel feels the need—the need for speed. Learn more about how steel is leaving other materials in the dust at [aisc.org/needforspeed](https://aisc.org/needforspeed).

## HARNESS THE POWER OF AN UNMATCHED SUPPLY CHAIN

Steel's fully integrated supply chain leads the construction industry with superior availability and advanced technology.

Domestic structural steel is readily available with U.S. mills producing roughly 10 million tons, enough to meet the needs of the built environment. The country's huge network of service centers also have an extensive inventory to meet today's needs.

## STAY ON THE CUTTING EDGE

Advanced technologies like building information modeling (BIM), computer-aided manufacturing, and robotic fabrication streamline all stages of design and construction while facilitating collaboration, reducing or eliminating errors, improving safety, and cutting project costs.

## FEWER STRUCTURAL COMPONENTS = FASTER ERECTION

Structural steel is the most efficient construction material out there. Longer spans (only possible with steel) mean fewer columns, and less weight means faster foundation construction.

New technologies allow you to design, fabricate, and construct a steel building 50% faster than you could just a few years ago.

## Steel: The obvious choice

No other structural material can match domestically fabricated structural steel.

Structural steel can **SUPERCHARGE YOUR PROJECT SCHEDULE** because you can design, fabricate, and construct a steel building 50% faster than you could just a few years ago.

Steel is the **MOST RESILIENT STRUCTURAL MATERIAL** because it boasts superior ductility, the highest strength-to-weight ratio, and can be easily repaired.

Structural steel is the **MOST SUSTAINABLE MATERIAL** because it is made from recycled scrap using pure electricity—in fact, it will continue to get greener as the power grid incorporates more renewable energy.

Structural steel is the **MOST EFFICIENT MATERIAL** because its high strength-to-weight ratio allows longer spans, fewer and smaller columns, and larger bays—you can maximize open space today and easily adapt for future reuse.

Structural steel is an **INCREDIBLY ECONOMICAL CHOICE** because its offsite fabrication streamlines the construction process, saving time and money. Bring a structural steel fabricator onto your project team early to save around 70% on your steel package!

Structural steel is a **RELIABLE CHOICE** because it has the most robust quality certification program out there, which is designed to prevent errors instead of correcting them.



**Smarter.  
Stronger.  
Steel.**

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## INDUSTRY INNOVATION: SPEEDCORE

Steel structures endure for a century or more, but the industry doesn't stand still.

Use the new composite SpeedCore system to erect a structure in 43% less time than it would take with a traditional cast-in-place, reinforced concrete core—up to four floors in a week!

Here's how it works: Erectors install prefabricated panels consisting of two structural steel plates held together with cross-connecting tie rods. After erection, these panels are filled with concrete, creating a unique sandwich-style structure that combines strength and stability with rapid erection. SpeedCore is a non-proprietary system, meaning many American steel fabricators can produce the panels.

SpeedCore projects are popping up across the country!



## FULL STRENGTH FROM THE GET-GO

Cut your project schedule—unlike conventional concrete framing, a steel frame is ready to go as soon as it's erected. This means that the construction schedule is no longer subject to the time and on-site labor costs of placing formwork and waiting for concrete to cure. In fact, the steel in the new SpeedCore system is designed to advance four stories above the surrounding structure in compliance with OSHA erection standards. With a concrete core, floor framing can lag behind the core for 8 floors or more—and there might be additional delays thanks to inaccurate embed placement. That's a difference of 12 floors—a decent-sized office building in most of the country.

## No other structural material can match steel's speed

### 200 PARK AVENUE | SAN JOSE, CALIF.

Silicon Valley is all about the future, and this dual-core, 20-story, class-A office development—the nation's second SpeedCore project—is a prime example. Choosing SpeedCore cut 35% off the erection schedule (that's three months) when compared with a cast-in-place concrete core. SpeedCore is also thinner, resulting in more leasable square footage.

### NORTH HALL AT RHODE ISLAND SCHOOL OF DESIGN PROVIDENCE, R.I.

How do you cram without pulling an all-nighter? Use a hybrid steel/wood system to erect six stories in less than three weeks. Erectors framed the building with steel, then dropped in wooden floor panels. Students live, work, and play in an airy structure with slender steel columns and exposed wooden ceilings and floors.

## Ready for take-off?

AISC's expert structural steel specialists are on the ground in key cities across the country—and they know how to reduce risk and improve the schedule on your next project. Contact them for industry connections that can help you put the pedal to the metal. They can also give you the latest information about current market conditions, the steel supply chain, innovative steel systems, and much more.

Contact your local structural steel specialist ([aisc.org/find-a-specialist](http://aisc.org/find-a-specialist)) to get started.



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