# AMERICAN STRUCTURAL STEEL OFFERS THE BEST VALUE FOR YOUR MONEY

**"ARCHITECTURE IS ABOUT TRYING TO MAKE THE WORLD A LITTLE BIT MORE LIKE OUR DREAMS."**
**—DANISH ARCHITECT BJARKE INGELS**

Steel is a the low-cost structural leader because of its speed of design and construction.

Steel is fabricated offsite during preliminary site preparation and foundation work, reducing on-site labor and construction cycle time and waste—resulting in earlier occupancies and lower financing costs.

Steel has benefits onsite, too. Say goodbye (and good riddance) to RFIs that fix misaligned embed plates in concrete and other trades cooling their heels while waiting for the structural system to cure.


Moris Moreno

## SPEEDCORE: A GAME-CHANGER

Your steel structure may stand for a century—but the industry is changing the rules today. Innovations like SpeedCore make steel the gold standard for rapid erection.

This building went up 40% faster because the design team chose steel—a savings of 10 months, in this case. That's 10 more months of revenue from the whole building, and that adds up fast. Learn more at **aisc.org/rainiersquare**.

To make your dream a reality, you need a structural material that is fast, low-cost, high-quality, and sustainable. *Only steel can deliver all four.*

## 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.

AMERICAN INSTITUTE OF STEEL CONSTRUCTION AISC FOUNDED 1921

**Smarter. Stronger. Steel.**

# AMERICAN STRUCTURAL STEEL OFFERS
# THE BEST VALUE FOR YOUR MONEY

## The savings add up.

A structure's frame is only about 12% of its total cost, but savings there could have an outsized impact on the whole project's cost.

### INNOVATIVE MATERIALS

Domestic mills produce the latest high-strength steels. Maximize your project's weight and efficiency with cutting-edge materials—and save money on foundation costs, too.

### INNOVATIVE TECHNOLOGY

Steel also lends itself particularly well to innovative technology and modeling used with integrated project delivery, which can reduce the cost of a steel package by 10% to 20% by eliminating time spent in traditional shop drawing review and cut RFIs.

### GOOD OLD-FASHIONED COLLABORATION

Bring in a steel fabricator early in the design phase for expert advice to design and fabricate steel members and assemblies as efficiently as possible. Around 70% of the cost of a steel package comes from fabrication and erection, so this early collaboration can pay off in a big way!

### MAKING CONNECTIONS

That's where AISC can help you stay within your budget and reduce RFIs. We are here to connect designers, owners and contractors with over 1,000 AISC member fabricators and other industry partners for real-time cost and schedule data.

## Raw material costs are only a small factor:

### DO THE MATH

Because material is less than one-third of the cost of the building's framing system (fabrication and erection represent more than two-thirds), and the frame is around 12% of the project cost, a 5% increase in the price of steel represents less than one-fifth of 1% of the total project cost.

Example:
Project cost: $50 million
Frame (12%): $50 million (0.12) = $6 m
Material (33%): $6 million (0.33) = $1.98 m
If the price of material increases 5%: $1,980,000 (0.05) = $99,000
Impact: $99,000 / $50 million = 0.2%

That means that a 5% increase in material price only impacts the total project cost by 0.2%. And you can fully optimize your design and reduce costs by working with an AISC member fabricator before finalizing your project.

### GET THE LATEST

AISC's expert structural steel specialists are on the ground in key cities across the country—and it's their job to connect the design community with the steel industry to provide the information you need to control risk and reduce costs.

They'll also give you complimentary, customized data about the industry and market conditions for your city or state. Contact your local structural steel specialist (**aisc.org/find-a-specialist**) or visit **aisc.org/economics** for more information.

### DID YOU KNOW?

Steel's extraordinary value runs right through to the end of a structure's working life–many demolition contractors pay the owner to demolish a steel-framed building and sell the old steel to a recycler. Visit **aisc.org/sustainability** to find out how scrap from a project becomes brand-new structural steel.

**Smarter. Stronger. Steel.**