SidePlate is driven by design efficiency: we use SidePlate patented connection technology to put steel where it is most effective. Buildings utilizing our designs are erected faster and safer, and our process makes life easier for everyone on the job. The SidePlate team stays involved from design through construction to ensure a simple and successful project.
SidePlate Design Optimization Process

**Optimized:**

Our design optimization process starts with a simple phone call or email to a SidePlate regional engineer. At that point, the talented SidePlate engineering team, with a combined 270 years of experience, will take a look at your project and use our technology to design a completely optimized lateral system. We act as an extension of your team, providing valuable support aimed at implementing SidePlate connection technology to resist wind, seismic, or progressive collapse. The earlier this process starts the better—but it is never too late. With SidePlate on your project, there are virtually no limits to the design that can be achieved.

**Minimized:**

The SidePlate design process minimizes the inherent complexities in the construction industry. SidePlate technology utilizes stiffer moment frames in the design, typically reducing the number of moment connections by 20-30% compared to conventional moment frame buildings. Additionally, the increased stiffness allows the design team to minimize beam and column weight by 15-25% of the lateral steel tonnage. SidePlate connection technology is field-bolted—eliminating expensive and time-consuming welding in the field—which minimizes erection times significantly. By eliminating complete joint penetration welding, inspection time and costs associated with those welds disappear.

**Simplified:**

SidePlate is all about simplifying the building process during the design and construction phases of the project. We provide all of the connection drawings and calculations, which are incorporated directly into the construction documents, eliminating the need for deferred submittals. Buildings designed with SidePlate can be fabricated and erected by any contractor the team chooses. While our design process is technical, fabrication is simple and can be done at any qualified fabrication shop with no special or proprietary tooling required. In addition to the drawings and calculations, SidePlate provides software tools and data aimed at simplifying the estimating, detailing and coordination process through Excel material takeoff files, Tekla/SDS2 components, and Revit families.

**Benefits To:**

- **Engineer**
  - Ability to meet client desire for open layouts without increased conventional frame costs
  - Increase schedule efficiency through field-bolted connection
  - Develop efficient steel buildings while reducing steel tonnage and number of connections
  - Decrease plan review time by using a proven connection technology
  - Increase your design team size by partnering with SidePlate

- ** Erector**
  - Fast field-bolted construction minimizes crane time
  - No welding equals no weather delays
  - No preheating required
  - Fewer connections speed up the erection process
  - No UT inspections onsite

- **Fabricator**
  - Fully designed joints allow more accurate bidding
  - Simple plates, angles and fillet welds
  - Fabricate everything in your shop with no proprietary parts or tooling required
  - Increased detailing accuracy with Tekla/SDS2 components
  - Faster and more accurate estimating with provided estimate files

- **Owner**
  - Increased design flexibility by eliminating structural braces
  - Increased usable square footage by eliminating structural walls
  - Decrease schedule by eliminating field welding and minimizing connections
  - Decrease steel package costs with efficient steel designs and documentation

- **General Contractor**
  - Decrease risk by including SidePlate in the design and construction coordination
  - Reduce connection RFIs thanks to complete and coordinated connection drawings
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**Structural Framing Division**

MiTek® Commercial
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