



ConXR™

Structural Steel Space Frame

(for projects with bay spacing 8' to 20' +)

The **ConXR System** is best suited for mid to high-rise residential structures, including mixed-use, hotel, student and senior housing, as well as industrial pipe rack applications.

The ConXR System provides optimum value due to its infinitely configurable, brace free, no field welding characteristics.



Key Advantages

- **Lower "Total Installed Cost"** vs. conventional structural alternatives.
- **Robust Structural Frame:** Inherent seismic, blast and progressive collapse resistance - at no added cost.
- **Faster to Erect:** 2X – 5X efficiency vs. conventional structural alternatives.
- **Safer:** ConX "Lower and Locking™" connections reduce risk.
- **No to Minimal Field Welding** accelerates trade access and workflow; and reduces fire hazard during construction.
- **No Brace Frames or Shear Walls** enhances architectural freedom.
- **Efficient Structure:** Redundant distribution of moment frames can bring foundation savings and reduced carbon footprint.
- **Superior Dimensional Tolerance in Frame:** Brings high quality, efficient installations for the finish trades.
- **The Ultimate in Sustainability:** Durable materials; efficiently designed & delivered; can be designed for disassembly and re-use.
- **Green:** Use of ConX may contribute up to four LEED credits.

Often referred to as a full-scale "Erector Set", the ConXR System applies technology to the building industry resulting in dramatic efficiencies. This systems approach is made possible by employing automated and efficient processes, from design through fabrication, shipping and field assembly. By utilizing a library of robust connectors, beam and column assemblies can be configured to achieve aesthetic design freedom and to meet even the most demanding structural criteria. The ConXR System enables a premium structure – in a fraction of the time – without a premium cost.

In addition to the structure itself, the inherent precision of the ConX Chassis™ enables the simple integration of other modular or factory-built building components, similar to the precision of automobile manufacturing.

Progressive Collapse and Blast Resistance

ConXtech®'s bi-axial moment frame provides an inherently seismic, blast and progressive collapse resistant "chassis". These simple, yet robust connectors streamline structural design and analysis and enable material optimization.

ConXtech's integration team provides design assistance to quickly familiarize outside design professionals with the structural details and guidelines. A Design Guide with test data, detail library, and Etabs® modeling tips is available upon request.

Manufacturing

The demand to build high quality sustainable buildings is evident. ConXR System components are precision manufactured in a highly automated manufacturing facility where technology minimizes waste and carbon emissions while enhancing quality and cost efficiencies. Electronic CAD/CAM files

from Building Information Models (BIM) feed data to CNC cut and drill lines thereby increasing precision and reducing the risk of human error. Robotic weld cells, CNC machine centers, innovative fixturing, and process streamline the flow of materials into a near Just-In-Time (JIT) delivery system. The result? Superior quality and unprecedented efficiencies in the use of materials, time and energy.

On-Site Assembly

ConXtech's field assembly is rapid and efficient. The simplicity of the system connector ensures a speedy and precise fit-up in the field which ensures a safe, high quality installation.

On-site material handling and storage is minimized by delivering building components in a sequential flow for an efficient assembly. By design, ConXR factory welded connections eliminate the need for field welding. Structural components easily "lower and lock" together ensuring an immediately stable space frame. Unlike field welded assemblies, the ConXR System bolt-up can take place from the safety of finished decks and will not impede the workflow of the structure schedule.

Core Frame Components

The ConXR System simplifies the structural frame of a building to a "chassis" comprised of a finite set of systemized components: (1) HSS tube or built-up box columns, (2) wide flange beams, and (3) two patented interlocking joints, one which forms a bi-axial moment connection (collar), and the other an innovative gravity connection. Both connections are easily assembled by lowering and locking beams into place on-site and require no field "cut-and-fit" or welding associated with conventional steel systems.

ConXRColumn™



ConXRBeam™



ConXRCollar™



Proven Technology

ConXtech has designed and delivered nearly eight million square feet of ConX System structure over the last five years. The system is manufactured in an AISC Fabricator Certified Plant. The design, system and plant have undergone extensive peer reviews, full scale testing and the scrutiny of some of the world's most respected seismic and structural engineers.



Predictable Delivery

ConXtech's systemized approach enables predictable delivery and quality through unprecedented dimensional tolerances inherent in the system.

Markets

ConXtech's systems deliver an innovative yet commercially viable alternative to traditional building methods. With infinite configurability, the ConXR System is perfectly suited to meet the needs for the urban infill and multi-family residential markets. In addition, it is ideally suited for high-density affordable housing projects where proven systems, time to market and overall hard costs are hypercritical for project viability.

Conxtech also serves the commercial, hospital and industrial markets with the ConXL System for structures with spans from 18' to 45'+.

ConX Inside

ConXtech integrates a systemized approach to building design by utilizing standard structural components. The result is a simple and robust structural chassis that enhances aesthetic design freedom and meets even the most demanding structural criteria.



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