



Custom Iron Highlights Precision Fabrication in Custom Stair Railings

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Custom Iron continues to emphasize precision-engineered custom stair railings as a core offering in its lineup of architectural metalwork. Fabricated entirely in the United States at the company's 80,000-square-foot facility in Zumbrota, Minnesota, these railings support both straight and curved stair configurations, including those integrated with spiral staircases. The focus remains on built-to-order production that meets exact project dimensions, code requirements, and aesthetic specifications for residential, multi-family, office, and commercial applications.

Custom stair railings from Custom Iron include several distinct styles designed for functionality and visual impact. Vertical-style railings feature clean lines with square or round balusters, suitable for straight runs or landings. Laser-cut panel railings incorporate intricate scrollwork, geometric patterns, or fully bespoke designs framed between rigid top and bottom bars, allowing for decorative elements without compromising structural integrity. Top-bar panel railings utilize welded pickets on a low-profile top bar for rigid, quick-install sections. Curved or radius railings accommodate spiral configurations, curved landings, or contoured paths, with handrails shaped precisely to match the staircase curve for consistent safety and appearance.

Materials selection prioritizes durability and versatility. Steel provides foundational strength, while aluminum offers corrosion resistance ideal for exterior or high-moisture environments. All components receive powder coating in various finishes, including classic black, modern matte, custom colors, brushed steel, bare metal, or patina options, ensuring protection against weather and wear in both interior and outdoor settings. The fabrication process incorporates CAD-generated shop drawings to guarantee precise fit and alignment, eliminating the need for on-site welding, cutting, or drilling during installation.

The modular design of Custom Iron's railings facilitates straightforward assembly. Products ship disassembled into manageable sections, accompanied by detailed instructions that enable most installations to be completed by two people in a few hours. This approach supports integration with spiral staircases, where railings complement models such as the D500 with interchangeable panels or traditional designs like the D100. Railings also pair with complementary elements, including newels, balusters, cable systems, and deck railings for cohesive project outcomes.

Customization extends to replicating existing designs through detailed mockups or creating one-of-a-kind features. Projects range from minimalist modern looks with open spacing to ornate decorative patterns that enhance architectural character. The company's emphasis on American-made craftsmanship since 1975 ensures consistent quality control throughout fabrication, from hand-welding to final finishing.

"Custom stair railings represent a key area where precision and adaptability intersect to support diverse project needs," said Robert Driscoll, President and CEO of Custom Iron. "The ability to tailor every element—from baluster style to curve radius—allows for solutions that align closely with architectural intent and building codes."

Custom Iron's railings address practical considerations such as safety and longevity. Code-compliant construction incorporates appropriate spacing, height, and load-bearing standards. For exterior applications, materials and coatings withstand environmental exposure, including temperature fluctuations and moisture. Interior installations contribute to seamless design flow in entryways, lofts, balconies, and multi-level spaces.

"This level of detail in fabrication supports both functional requirements and long-term aesthetic value across various building types," added Driscoll.

Founded in 1975, Custom Iron operates from its facility in Zumbrota, Minnesota, where all design, fabrication, and finishing take place. The company specializes in custom spiral staircases, straight stairs, deck railings, handrails, cable railings, newels, balusters, and broader architectural metalwork. Serving stair industry businesses, builders, architects, and homeowners nationwide, Custom Iron maintains a commitment to

collaborative processes and durable, USA-manufactured products under the leadership of its experienced team.

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Custom Iron

Custom Iron doesn't believe you should settle for a one-size-fits-all spiral stair! That's why we don't sell kits. Instead, we build beautiful spiral stairs one at a time for a reasonable price.

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