

Understanding the Expertise Behind GREATWALL GROUP's Bailey Bridge Component Manufacturing



Zhenjiang, Jiangsu Dec 11, 2025 ([Issuewire.com](https://www.issuewire.com)) - In the realm of modular bridge construction, few names command as much respect as **Zhenjiang Great Wall Heavy Industry Technology Co., Ltd.** (hereinafter referred to as *Great Wall*). As a [Professional Bailey Bridge Component Factory](#), Great Wall has established itself as a leader in the design, production, and export of prefabricated Bailey bridges and modular steel structures. With years of engineering excellence, advanced manufacturing capabilities, and a commitment to innovation, Great Wall continues to set the benchmark for quality and reliability in global bridge component manufacturing.

Situated in the vibrant Yangtze River Delta economic zone, the Great Wall benefits from an advantageous geographic location — 30 kilometers from Zhenjiang seaport, 50 kilometers from Changzhou airport, 70 kilometers from Nanjing airport, and 70 kilometers from Yangzhou-Taizhou airport. This logistical convenience ensures efficient international transportation and timely delivery to clients around the world.

The company's main products include the **321-Type (British Compact-100) prefabricated highway steel bridge** and the **200-Type prefabricated highway steel bridge (Bailey Bridge)** — both known for their modular design, ease of assembly, and exceptional load-bearing capacity. The Great Wall has

also developed a new **large-span prefabricated D-Type bridge**, capable of spanning up to 91 meters, marking a milestone in modular bridge innovation. With a complete production line for Bailey bridge components and an annual output exceeding 10,000 tons, Great Wall delivers world-class solutions for infrastructure projects, disaster recovery, and temporary military or civilian applications.

The Industry Outlook: Strong Growth and Modern Infrastructure Needs

The global demand for modular and prefabricated bridge systems has been increasing rapidly. Nations are investing heavily in transportation networks, rural connectivity, and emergency infrastructure — all areas where modular Bailey bridges demonstrate their unique advantages.

- **Growing Infrastructure Investment Worldwide**

As developing regions continue to expand their road and bridge networks, cost-effective modular bridge systems are becoming a preferred choice. Bailey bridges, known for their quick installation, portability, and durability, are particularly favored for projects requiring temporary or semi-permanent solutions.

- **Critical Role in Disaster Recovery and Military Operations**

Bailey bridges play an essential role in emergency response operations, allowing authorities to restore access in disaster-stricken areas swiftly. Their modular structure enables assembly with minimal heavy equipment, making them vital for flood recovery, military logistics, and temporary detour projects.

- **Focus on Efficiency and Sustainability**

Modern bridge engineering emphasizes not only functionality but also sustainability. Great Wall's manufacturing processes use recyclable materials and advanced surface treatments — such as hot-dip galvanizing and zinc-aluminum alloy coating — which enhance corrosion resistance and extend the lifespan of bridge components, reducing maintenance and environmental impact.

- **Advancements in Modular Bridge Technology**

Continuous improvements in design, materials, and production technology have made modular bridges more efficient, stronger, and easier to deploy. Companies like Great Wall are at the forefront of this transformation, driving innovation through research and development while maintaining affordability and international quality compliance.

With a solid foundation in engineering expertise and a clear focus on global infrastructure needs, Great Wall stands as a trusted partner in the modular bridge manufacturing industry.

Certifications and Global Recognition: Ensuring Excellence and Compliance

Great Wall's reputation as a **Professional Bailey Bridge Component Factory** is built upon a strong commitment to quality assurance and international certification. Every stage of production, from raw material inspection to final assembly, adheres to strict quality control procedures validated by leading international standards.

ISO 9001 Quality Management System Certification

Great Wall has achieved ISO 9001 certification, demonstrating its ability to consistently provide products that meet customer and regulatory requirements. This certification affirms the company's dedication to precision engineering and continuous improvement.

Factory Work Safety Certificate

The Factory Work Safety Certificate confirms that Great Wall upholds rigorous workplace safety

standards. The company ensures all production activities comply with safety protocols, protecting both personnel and products during manufacturing operations.

SGS Testing Report of Main Steel

All main steel materials used by the Great Wall undergo strict quality inspection and third-party testing. SGS, one of the world's leading inspection, verification, and certification companies, has verified that the Great Wall's steel materials meet international strength and durability standards, ensuring reliability under the toughest conditions.

SGS-PVOC to Tanzania

To support international trade, Great Wall has obtained SGS-PVOC certification for exports to Tanzania, proving that its products comply with the Pre-Export Verification of Conformity standards. This certification guarantees that all exported Bailey bridge components meet the technical and safety requirements of destination countries.

FORM E to ASEAN and Certificate of Origin The

Great Wall holds FORM E certification for exports to ASEAN member countries, enabling preferential trade terms and tariff benefits. In addition, the company maintains an official Certificate of Origin, ensuring smooth customs clearance and international trade compliance.

Together, these certifications reflect Great Wall's global credibility, technical precision, and commitment to delivering only the highest-quality Bailey bridge components to clients worldwide.

The Core Technical Advantages Behind the Great Wall's Manufacturing Expertise

Great Wall's leadership in Bailey bridge component manufacturing is not just the result of scale — it's built on deep engineering expertise, advanced production technologies, and a culture of continuous innovation. Below are four core technical strengths that distinguish Great Wall from competitors:

- **Advanced Production Technology and Equipment**
Great Wall's manufacturing facilities are equipped with state-of-the-art machinery for precision steel fabrication, welding, and surface treatment. The company employs sandblasting, dip coating, spray painting, and hot-dip galvanizing processes to ensure superior corrosion resistance and longevity of every component.
- **Certified Welding and Assembly Expertise**
Great Wall's welders and Welding Procedure Specifications (WPS) have passed BV certification, one of the most respected classifications in the global engineering industry. This ensures that every welded joint meets stringent mechanical and safety standards.
- **Research and Development Capabilities**
Great Wall holds several independent R&D patents related to modular bridge design and assembly technology. The company's engineers continuously work on optimizing load distribution, improving assembly efficiency, and expanding bridge span capabilities. The development of the 91-meter D-Type bridge is a testament to this technical innovation.
- **Integrated Production and Global Logistics Efficiency**
From raw material processing to finished component assembly, Great Wall maintains a complete and integrated production chain. Its proximity to major highways, seaports, and airports allows for efficient international logistics, reducing lead times and transportation costs for clients around the world.

Conclusion

As global infrastructure needs continue to evolve, Zhenjiang Great Wall Heavy Industry Technology Co., Ltd. remains at the forefront of modular bridge manufacturing. Combining decades of engineering expertise with advanced production capabilities, Great Wall continues to deliver innovative and reliable Bailey bridge solutions to clients worldwide.

With its strong technical foundation, internationally recognized certifications, and commitment to quality, Great Wall is not just a **Professional Bailey Bridge Component Factory** — it is a trusted global partner in bridge construction excellence.

For more information, please visit www.greatwallgroup.net.

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