

Why GREATWALL GROUP's Portable Steel Bridges with Custom Lengths are Revolutionizing Temporary Bridge Solutions



Zhenjiang, Jiangsu Dec 11, 2025 ([Issuewire.com](https://www.issuewire.com)) - In an era where infrastructure efficiency and adaptability are driving modern engineering, **Zhenjiang Great Wall Heavy Industry Technology Co., Ltd. (GREATWALL GROUP)** stands at the forefront of innovation in the field of modular and temporary bridge construction. Located in Zhenjiang City, south of the Yangtze River, at the heart of the Yangtze River Delta economic zone, GREATWALL GROUP benefits from exceptional transportation connectivity—only 30 kilometers from Zhenjiang seaport, 50 kilometers from Changzhou airport, and within easy access to major high-speed railways linking Shanghai, Nanjing, and Beijing. Leveraging these geographical advantages, the company has established itself as one of China's most trusted manufacturers of prefabricated steel bridge systems. Among its many innovations, the company's [**Fast Construction Prefab Bridge Abutment Design**](#) has attracted particular attention for enabling rapid deployment and superior load performance in challenging environments—offering an intelligent, modular approach to bridge construction that meets the evolving demands of global infrastructure projects.

Global Industry Trends: The Rise of Prefabricated Steel Bridge Solutions

The global infrastructure industry is undergoing a profound transformation, driven by the need for fast, safe, and sustainable construction methods. Prefabricated steel bridges have become increasingly vital in emergency response, military logistics, and regional development projects. Governments and contractors are moving toward solutions that reduce onsite labor, minimize environmental impact, and accelerate installation timelines.

Prefabricated bridges, particularly modular Bailey-type systems, are now preferred for temporary and semi-permanent use due to their cost-effectiveness, transportability, and structural reliability. With the rise of smart cities and infrastructure modernization, temporary bridges are no longer viewed as short-term fixes—they are integral to resilient infrastructure planning. The demand for **customizable, rapidly assembled steel bridge systems** continues to grow across developing regions in Asia, Africa, and Latin America, where flexible solutions are required to overcome geographical and logistical barriers.

Within this expanding market, **GREATWALL GROUP** has positioned itself as a leading innovator and global supplier of **portable steel bridges**, providing products that combine robust engineering standards with user-friendly assembly systems. The company's main product lines—**321-Type (British Compact-100) prefabricated highway steel bridges** and **200-Type prefabricated highway steel bridges (Bailey bridges)**—are trusted worldwide for their adaptability, strength, and ease of installation. GREATWALL's engineering excellence is further exemplified in its **large-span D-Type prefabricated bridge**, capable of achieving a single span of up to 91 meters. This engineering breakthrough not only expands construction flexibility but also ensures structural safety for demanding load-bearing conditions.

Quality Certifications: Global Recognition of Engineering Excellence

To meet international standards and ensure product reliability, GREATWALL GROUP has achieved a series of prestigious certifications that highlight its commitment to quality, safety, and compliance. The company holds **ISO9001 Quality Management System Certification**, demonstrating its consistent adherence to rigorous quality control procedures. Additionally, it has earned the **Factory Work Safety Certificate**, ensuring that every stage of manufacturing is performed under strict occupational health and safety standards.

GREATWALL's dedication to transparency and third-party verification is further supported by its **SGS Testing Report of Main Steel**, confirming the strength, composition, and structural integrity of its materials. The company also proudly holds **SGS-PVOC certification for Tanzania**, ensuring compliance with local import regulations and guaranteeing that its products meet the highest international specifications. Furthermore, the possession of **FORM E certification to ASEAN** and **Certificates of Origin** enable GREATWALL to facilitate smoother exports, reducing costs and delivery times for clients across Southeast Asia and beyond.

These certifications collectively represent more than just formal recognition—they reflect a deep corporate philosophy centered on safety, innovation, and long-term value creation. GREATWALL's welding processes are certified by **BV (Bureau Veritas)**, and both its welders and welding procedure specifications (WPS) have undergone strict testing. Raw materials and finished products are accepted and verified by international third-party institutes such as **SGS, CCIC, and CNAS**, ensuring that every bridge system leaving the factory meets or exceeds global standards.

How GREATWALL GROUP's Custom-Length Portable Bridges Are Redefining Temporary Bridge Solutions

At the heart of GREATWALL's success lies its groundbreaking approach to **portable steel bridge customization**. Traditional temporary bridges often rely on fixed module lengths, limiting their adaptability to different terrains and load requirements. GREATWALL GROUP has addressed this challenge by introducing **custom-length prefabricated bridge systems**, allowing engineers to tailor span configurations precisely to project needs. This flexibility not only optimizes material usage but also significantly reduces onsite assembly time, transportation costs, and environmental disruption.

The company's **Fast Construction Prefab Bridge Abutment Design** further enhances deployment efficiency by integrating modular abutment units that simplify foundation preparation. This design innovation minimizes the need for extensive groundwork, making it ideal for rapid deployment in emergency recovery, military logistics, and remote area infrastructure projects. Whether bridging rivers, flood zones, or temporary construction access routes, GREATWALL's modular system offers exceptional strength-to-weight ratio, corrosion resistance, and load-bearing capacity—making it a preferred choice for both government and private contractors worldwide.

Moreover, GREATWALL GROUP employs a comprehensive range of **surface treatment processes**—including sandblasting, dip coating, spray painting, hot-dip galvanizing, and zinc-aluminum alloy coating—to ensure maximum durability against corrosion and harsh weather conditions. With an **annual production capacity exceeding 10,000 tons**, the company maintains full control over its manufacturing process, from raw steel processing to final assembly and inspection. Combined with advanced R&D capabilities and several independent patents, GREATWALL continues to push the boundaries of prefabricated bridge engineering.

By redefining temporary bridge systems with **custom lengths, superior strength, and rapid installation capabilities**, GREATWALL GROUP is revolutionizing the way modern infrastructure projects approach temporary and semi-permanent bridge construction. The company's commitment to innovation, certification, and global collaboration has positioned it as a trusted partner in building smarter, faster, and more sustainable bridge solutions worldwide.

For more information about GREATWALL GROUP's products and technical capabilities, please visit the official website: www.greatwallgroup.net

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