



**QUALITY GUARDS
SAFE EVERY MILE**

BRIDGE, RIVERFRONT & LANDSCAPE GUARDRAILS

Product Specification Catalog
Custom Systems for Project Applications

Applicable standards: project drawings and local requirements

chinaguardrail.com



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Bridge, Riverfront & Landscape Guardrails

Custom safety protection integrated with architectural design

Bridge and riverfront guardrails are custom-designed to project drawings, structural interfaces, service environments, and local acceptance requirements. The range includes vehicle bridge barriers, pedestrian and cyclist railings, and guardrail systems for canals, parks, waterfront walkways, and landscape infrastructure.

1

Built to Drawings
Post-and-rail barriers, architectural railings, and project-specific welded assemblies can be manufactured to approved drawings.

2

Custom Anchorage
Options include top- or side-mounted base plates, anchor bolts, cast-in assemblies, embedded sleeves, and custom connectors.

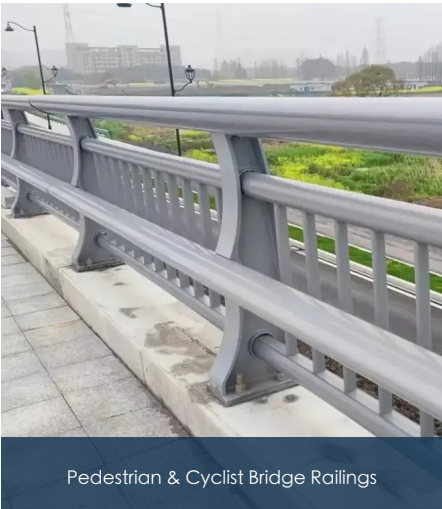
3

Materials & Finishes
Q235/Q355 carbon steel, 304/316 stainless steel, hot-dip galvanizing, powder coating, and duplex systems are available.

4

Installation Ready
Components can be prefabricated, matched, and numbered for efficient site assembly, inspection, and maintenance.

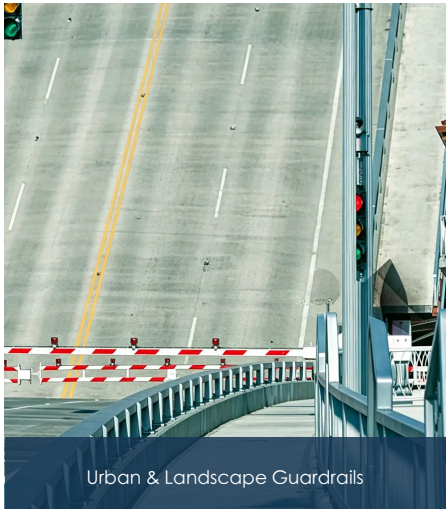
Applications



Pedestrian & Cyclist Bridge Railings



Bridge & Riverfront Safety Barriers



Urban & Landscape Guardrails

360° Guardrail Customization

Structural dimensions, materials, finishes, and project documentation

- 01

Custom Structure, Dimensions & Anchorage

Post spacing, rail dimensions, connections, base plates, anchor bolts, embedded sleeves, and structural members can be adapted to the bridge deck, concrete foundation, riverfront structure, and approved drawings.
- 02

Material & Finish Options

Carbon steel offers structural strength and value; hot-dip galvanizing supports long-term outdoor use; powder coating meets architectural color requirements; 304/316 stainless steel suits coastal, marine, and highly corrosive environments.
- 03

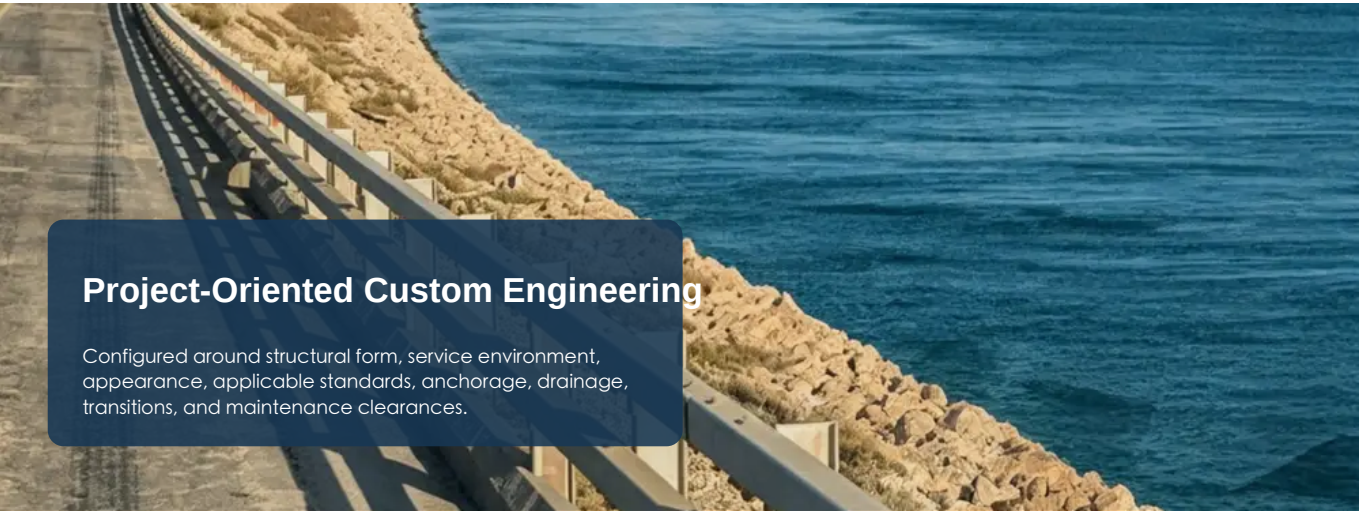
Standards & Quality Documentation

Material certificates and MTCs, dimensional inspection, welding and fabrication records, coating-thickness reports, shop drawings, and installation guidance are available. EN 1317, AASHTO MASH, ASTM, ISO, or applicable national requirements must be evaluated for the complete ordered system.



Specification	Available Options / Project Basis
System Type	Vehicle bridge barriers; pedestrian and cyclist railings; riverfront and landscape guardrails
Materials	Q235/Q355 carbon steel; 304 or 316 stainless steel for corrosive environments
Rail / Structure	Post-and-rail barriers; W-beam or thrie-beam transitions; steel-tube railings; custom welded structures
Surface Protection	Hot-dip galvanizing; powder coating; galvanized-plus-topcoat duplex systems; custom RAL colors
Dimensions / Layout	Overall height, rail section, wall thickness, post spacing, and segment length to approved drawings
Anchorage	Top-mounted or side-mounted base plates; cast-in anchors; embedded sleeves; custom connectors
Safety Performance	Containment level and crash performance apply only to the tested or approved complete system configuration

Project Configuration & Applications



Application Scenarios

- Bridge Crossings
- Riverbanks & Canals
- Parks & Waterfronts
- Urban Interchanges

Engineering Information Required for Quotation

- 01

Layout & Use
Project location, total length, alignment, user groups, bridge-edge or median position, openings, curves, and appearance requirements.
- 02

Performance & Standards
Applicable codes, containment level, design loads, pedestrian or cyclist requirements, and local authority acceptance criteria.
- 03

Structure & Anchorage
Concrete strength, deck or parapet geometry, reinforcement conflicts, base-plate limits, anchorage method, and edge
- 04

Materials & Coatings
Steel grade, stainless options, coating system, RAL color, coastal exposure category, service environment, and document

Quality Control Checklist

☐ Dimensions, post spacing, holes, and matched parts

☐ Galvanizing/coating thickness, color, adhesion, appearance

☐ Material grade, traceability, welding, and fabrication

☐ Packing marks, shop drawings, installation guidance, records

Project Documentation

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EN 1317, AASHTO MASH, ASTM, ISO, or applicable national requirements must be evaluated against the complete ordered system and approved project

