High Corrosion Resistance Steel Pedestrian Bridge with Customizable Railing Design and 400-600 Kg/m² Load Capacity

Our Product Introduction

Basic Information

Product Specification

- Weight: Depends On Span And Design, Approx. 50-150 Kg/m²
- Bridgetype: Pedestrian
- Spanlength: Variable (typically 10-50 Meters)
- Customizationoptions: Color, Length, Width, Railing Design
- Typicalusage: Urban Areas, Parks, Campuses, Industrial Sites
- Surface: Painted Or Galvanized
- Loadcapacity: Typically 400-600 Kg/m²
- Installationmethod: Prefabricated Sections With Bolted Connections
- Highlight: **galvanized steel pedestrian bridge**, **high corrosion resistance pedestrian bridge**, **painted steel pedestrian bridge**

Product Description

Product Description:

The Steel Pedestrian Bridge is a robust and versatile solution designed to facilitate safe and efficient pedestrian crossing over various obstacles such as rivers, roads, and railways. Constructed primarily from high-quality steel, this bridge offers exceptional strength and durability, making it an ideal choice for both urban and rural environments. Its steel composition ensures that the bridge can withstand heavy foot traffic and adverse weather conditions without compromising structural integrity.

One of the standout features of the Steel Pedestrian Crossing Bridge is its high corrosion resistance. Thanks to advanced treatment processes such as galvanization or specialized painting techniques, the steel components are well-protected against rust and environmental degradation. This corrosion resistance significantly extends the lifespan of the bridge, reducing maintenance costs and ensuring safety over many years. Whether installed in coastal areas with salty air or regions with high humidity, the Steel Walkway Bridge remains resilient and reliable.

The weight of the Steel Walkway Bridge varies depending on the span and design specifications, generally ranging from approximately 50 to 150 kilograms per square meter. This weight range allows for customization based on the load requirements and structural demands of the installation site. Engineers can design the bridge to balance between strength and material efficiency, optimizing both cost and performance. The adaptability in weight also means the bridge can be used in a wide range of applications, from small pedestrian pathways to longer crossings that require enhanced load-bearing capacity.

Customization options for the Steel Pedestrian Crossing Bridge are extensive, allowing clients to tailor the bridge to their specific needs and aesthetic preferences. Color customization enables the bridge to blend seamlessly into its surroundings or stand out as a visual landmark. The length and width of the bridge can be adjusted to accommodate different crossing distances and pedestrian volumes, ensuring optimal functionality and comfort. Additionally, the railing design can be personalized to enhance safety, comply with local regulations, or create a unique architectural statement. These customization capabilities make the Steel Walkway Bridge a flexible choice for a variety of projects.

The surface treatment of the Steel Walkway Bridge is another critical aspect contributing to its durability and appearance. The bridge surface can be either painted or galvanized, depending on the environmental conditions and client preferences. Painted surfaces provide a smooth finish that can be color-matched to the surrounding environment, offering aesthetic appeal along with protection. Galvanizing involves coating the steel with a layer of zinc, which serves as a sacrificial barrier against corrosion. Both surface options ensure that the bridge maintains its structural integrity and visual appeal over time, even under heavy usage.

Overall, the Steel Pedestrian Bridge represents a reliable, customizable, and long-lasting solution for pedestrian crossings. Its steel construction guarantees strength and safety, while high corrosion resistance and surface treatment options ensure longevity in diverse environmental conditions. The ability to customize color, dimensions, and railing design allows for a tailored approach that meets both functional and aesthetic requirements. Whether used as a Steel Pedestrian Crossing Bridge in a busy urban center or a Steel Walkway Bridge in a natural park setting, this product delivers outstanding performance and value.

Features:

Product Name: Steel Pedestrian Bridge
Net Width Options: 1m, 1.2m, 1.5m, 2m, 3m
Deck Material: Anti Skid Steel or Aggregate
Material: Durable Steel
Environmental Resistance: Weatherproof and UV Resistant
Bridge Type: Pedestrian
Ideal for use as a Steel Urban Footbridge
Suitable for Steel Pedestrian Crossing Bridge applications
Robust Steel Footbridge Structure for long-lasting performance

Technical Parameters:

Material	Steel
Net Width	1m, 1.2m, 1.5m, 2m, 3m
Safety Features	Handrails, Non-slip Surface
Load Capacity	Typically 400-600 Kg/m²
Bridge Type	Pedestrian
Surface	Painted Or Galvanized
Customization Options	Color, Length, Width, Railing Design
Span Length	Variable (typically 10-50 Meters)
Environmental Resistance	Weatherproof, UV Resistant
Corrosion Resistance	High

Applications:

The Steel Pedestrian Bridge is an ideal solution for various application occasions and scenarios where safe and durable pedestrian

passage is essential. Designed with an anti-skid steel or aggregate deck, this bridge ensures maximum safety and stability for users in all weather conditions. Available in multiple net widths—1m, 1.2m, 1.5m, 2m, and 3m—the Steel Walkway Bridge can be customized to accommodate different pedestrian traffic volumes, making it suitable for a wide range of environments.

One of the most common application occasions for the Steel Pedestrian Overpass is in urban areas. Here, it serves as a critical infrastructure element to facilitate safe crossing over busy streets, highways, or railway tracks, effectively separating pedestrian traffic from vehicular flow and reducing the risk of accidents. Its compliance with local building codes and pedestrian bridge standards guarantees that it meets all safety and reliability requirements, providing peace of mind to city planners and users alike.

In parks and recreational areas, the Steel Pedestrian Crossing Bridge offers a robust and aesthetically pleasing way to connect different sections of the landscape, such as crossing over streams, uneven terrain, or small ravines. The anti-skid deck surface enhances user safety, especially in wet or slippery conditions, making it an excellent choice for outdoor leisure spaces frequented by families and nature enthusiasts.

Educational campuses also benefit significantly from the installation of these steel pedestrian bridges. They provide safe, accessible pathways over roads or other obstacles, helping students and staff to navigate the campus efficiently and securely. The variable span length, typically ranging from 10 to 50 meters, allows for flexible installation tailored to the specific layout and requirements of the campus environment.

Industrial sites represent another critical application scenario for the Steel Walkway Bridge. In such settings, the bridge facilitates safe pedestrian movement over machinery, transport routes, or hazardous zones, minimizing the risk of workplace accidents and improving overall operational safety. The sturdy construction and adherence to relevant standards ensure that the bridge can withstand demanding industrial conditions while providing reliable service.

Overall, the Steel Pedestrian Overpass is a versatile infrastructure component that adapts to a variety of scenarios, including urban planning, recreational areas, educational campuses, and industrial environments. Its customizable widths, variable span lengths, and compliance with safety standards make it an excellent choice for any project requiring a durable and safe pedestrian crossing solution.

Customization:

Our Steel Pedestrian Bridge offers comprehensive product customization services to meet your specific needs. Equipped with essential safety features such as sturdy handrails and a non-slip surface, this steel footbridge structure ensures maximum safety for all users. The deck can be customized with either anti-skid steel or aggregate materials, providing enhanced traction and durability.

Designed as a reliable steel walkway bridge, it boasts excellent environmental resistance, being both weatherproof and UV resistant, making it suitable for various outdoor conditions. The bridge also features high corrosion resistance, extending its lifespan and reducing maintenance costs.

To suit different aesthetic and functional requirements, the surface finish can be tailored with either a painted coating or galvanization. This steel pedestrian overpass combines strength, safety, and durability, making it the ideal choice for pedestrian crossing solutions.

Support and Services:

Our Steel Pedestrian Bridge product is supported by a dedicated technical support team committed to ensuring optimal performance and customer satisfaction. We provide comprehensive services including installation guidance, routine maintenance advice, troubleshooting assistance, and structural integrity assessments. Our experts are available to assist with design customization, compliance with local safety standards, and the integration of additional features to meet specific project requirements. We also offer detailed documentation, including user manuals, inspection checklists, and repair procedures, to facilitate proper use and upkeep of the bridge. Regular training sessions and updates on the latest advancements in steel bridge technology are provided to help our clients maintain the highest standards of safety and durability.

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