



Prefabricated Steel Pedestrian Bridge with 400-600 Kg/m² Load Capacity and Weatherproof UV Resistant Design

Basic Information



Product Specification

- Design standards: Complies With Local Building Codes And Pedestrian Bridge Standards
- Typical usage: Urban Areas, Parks, Campuses, Industrial Sites
- Bridge type: Pedestrian
- Customization options: Color, Length, Width, Railing Design
- Material: Steel
- Load capacity: Typically 400-600 Kg/m²
- Net Width: 1m, 1.2m, 1.5m, 2m, 3m
- Weight: Depends On Span And Design, Approx. 50-150 Kg/m²
- Highlight: **galvanized steel pedestrian bridge, prefabricated pedestrian bridge sections, customizable steel bridge urban planning**

Product Description:

The Steel Pedestrian Bridge is a robust and reliable solution designed to facilitate safe and efficient pedestrian crossing in various environments. Engineered with high-quality steel materials, this Steel Pedestrian Overpass offers exceptional strength and durability, making it an ideal choice for urban areas, parks, campuses, and other public spaces requiring safe pedestrian access across roads, railways, or waterways.

One of the key features of this Steel Footbridge Structure is its impressive load capacity. Typically designed to support loads ranging from 400 to 600 Kg/m², it ensures safety and stability even under heavy pedestrian traffic. This makes the bridge suitable for both everyday use and special events where large crowds might be expected. The structural integrity of the bridge is carefully calculated to accommodate these loads, providing peace of mind to users and authorities alike.

Environmental resistance is another critical attribute of the Steel Pedestrian Overpass. The bridge is weatherproof and UV resistant, allowing it to withstand harsh outdoor conditions without compromising its structural performance or aesthetic appeal. Whether exposed to intense sunlight, heavy rain, snow, or fluctuating temperatures, the Steel Footbridge Structure maintains its durability and appearance over time. This resistance to environmental factors significantly reduces maintenance costs and extends the lifespan of the bridge.

Installation of the Steel Pedestrian Bridge is streamlined through the use of prefabricated sections with bolted connections. This method not only accelerates the construction process but also ensures precision and quality control. Prefabricated components are manufactured under controlled conditions, minimizing on-site errors and reducing construction time. The bolted connections provide secure assembly while allowing for easier disassembly or future modifications if necessary. This modular approach enhances the flexibility and adaptability of the Steel Pedestrian Overpass to various site conditions and project requirements.

Compliance with design standards is paramount in the development of this Steel Pedestrian Overpass. It adheres strictly to local building codes and pedestrian bridge standards, ensuring that every aspect of the bridge, from structural design to safety features, meets or exceeds regulatory requirements. This compliance guarantees that the bridge is not only safe for public use but also legally certified, simplifying approval processes and fostering confidence among stakeholders.

Corrosion resistance is a standout feature of the Steel Footbridge Structure. The steel used in the bridge is treated with advanced anti-corrosion coatings, providing a high level of protection against rust and degradation caused by moisture, pollutants, and other corrosive elements. This high corrosion resistance is crucial for maintaining the structural integrity and safety of the bridge over many years, especially in environments prone to humidity or industrial pollution.

In summary, the Steel Pedestrian Bridge combines strength, durability, and safety with thoughtful design and environmental resilience. Its high load capacity ensures it can handle significant pedestrian traffic, while its weatherproof and UV-resistant properties make it suitable for diverse climates. The prefabricated section installation method with bolted connections ensures efficient and precise construction.

Compliance with local building codes and pedestrian bridge standards guarantees safety and legal conformity, and its high corrosion resistance protects the structure over time. This comprehensive set of features makes the Steel Pedestrian Overpass an excellent investment for municipalities, developers, and organizations seeking a dependable and long-lasting pedestrian crossing solution. Whether serving as an urban connector or a scenic walkway, this Steel Footbridge Structure stands out as a superior choice for modern infrastructure needs.

Features:

Product Name: Steel Pedestrian Bridge

Surface: Painted or Galvanized for enhanced durability

Customization Options: Color, Length, Width, and Railing Design to suit specific requirements

Weight: Depends on span and design, approximately 50-150 Kg/m²

Load Capacity: Typically supports 400-600 Kg/m²

Deck: Anti-skid steel or aggregate surface for safety

Ideal as a Steel Walkway Bridge or Steel Pedestrian Overpass

Designed to provide a sturdy and safe Steel Walkway Bridge solution

Technical Parameters:

Corrosion Resistance	High
Material	Steel
Environmental Resistance	Weatherproof, UV Resistant
Bridge Type	Pedestrian
Surface	Painted Or Galvanized
Safety Features	Handrails, Non-slip Surface
Installation Method	Prefabricated Sections With Bolted Connections
Net Width	1m, 1.2m, 1.5m, 2m, 3m
Span Length	Variable (typically 10-50 Meters)
Weight	Depends On Span And Design, Approx. 50-150 Kg/m ²

Applications:

The Steel Pedestrian Bridge, also known as the Steel Elevated Footbridge, is an ideal solution for various application occasions and scenarios where safe and durable pedestrian crossing is essential. Its robust steel construction provides exceptional strength and longevity, making it suitable for both urban and rural environments. The bridge is commonly used in parks, urban centers, campuses, industrial areas, and transportation hubs, where pedestrian traffic needs to be efficiently managed and separated from vehicular flow. One of the key advantages of the Steel Elevated Footbridge is its high degree of customization. Customers can specify the color, length, width, and railing design to perfectly match the aesthetic and functional requirements of their project. This flexibility allows the bridge to blend seamlessly into diverse environments, from modern cityscapes to natural park settings. The typical span length of the bridge ranges from 10 to 50 meters, accommodating a wide variety of crossing distances and site constraints.

Thanks to its steel material composition, the Steel Urban Footbridge exhibits excellent corrosion resistance, which significantly extends its service life even in harsh environmental conditions. This makes it particularly suitable for locations exposed to moisture, coastal areas, or industrial sites where corrosive elements are present. Additionally, the bridge is designed to be weatherproof and UV resistant, ensuring that it maintains its structural integrity and appearance despite prolonged exposure to sun, rain, wind, and temperature fluctuations.

The variable span length of the Steel Elevated Footbridge allows it to be tailored to different topographies and urban layouts. Whether spanning over busy roads, railway tracks, rivers, or uneven terrain, this footbridge provides a safe and accessible route for pedestrians. Its elevated design enhances visibility and safety, reducing the risk of accidents while also improving traffic flow below.

In summary, the Steel Pedestrian Bridge is a versatile and reliable infrastructure component suitable for a wide range of scenarios. Its customizable features, corrosion resistance, and environmental durability make it an excellent choice for cities, parks, industrial zones, and public spaces requiring a sturdy and aesthetically pleasing pedestrian crossing solution.

Customization:

Our Steel Pedestrian Bridge offers extensive product customization services to meet your specific needs. Constructed from high-quality steel, this Steel Walkway Bridge ensures exceptional durability and strength. You can choose from various net widths including 1m, 1.2m, 1.5m, 2m, and 3m to best suit your project requirements.

Designed as a Steel Elevated Footbridge, it features advanced environmental resistance with weatherproof and UV resistant properties, ensuring long-lasting performance even in harsh outdoor conditions. Safety is a top priority, with customizable handrails and a non-slip surface to provide secure and comfortable passage for pedestrians.

The weight of the Steel Walkway Bridge varies depending on the span and design, typically ranging from approximately 50 to 150 Kg per square meter. Our customization services allow you to optimize both the structural design and safety features, creating a reliable and efficient pedestrian bridge tailored to your environment.

Support and Services:

Our Steel Pedestrian Bridge product is designed to provide durable and reliable pedestrian access across various terrains and obstacles. For technical support, we offer comprehensive assistance including installation guidance, maintenance tips, and troubleshooting advice to ensure optimal performance and longevity of the bridge.

Our services include detailed engineering support during the planning and design phases, helping you to customize the bridge to meet specific site requirements and load capacities. We also provide on-site inspection and evaluation to ensure compliance with safety standards and structural integrity.

Maintenance services are available to help extend the life of your Steel Pedestrian Bridge, including routine inspections, corrosion protection treatments, and repair solutions. Our team is committed to providing timely and effective support to address any issues that may arise during the lifespan of the bridge.

We recommend regular monitoring and preventive maintenance to maintain safety and functionality. Detailed user manuals and technical documentation are provided with each bridge to assist with proper installation and upkeep.



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