



Steel Pedestrian Bridge with Variable Span Length 10-50 Meters, High Corrosion Resistance, and Load Capacity 400-600 Kg/m²

Our Product Introduction

Basic Information



Product Specification

- Designstandards: Complies With Local Building Codes And Pedestrian Bridge Standards
- Bridgetype: Pedestrian
- Corrosionresistance: High
- Net Width: 1m, 1.2m, 1.5m, 2m, 3m
- Surface: Painted Or Galvanized
- Loadcapacity: Typically 400-600 Kg/m²
- Deck: Anti Skid Steel / Aggerate
- Weight: Depends On Span And Design, Approx. 50-150 Kg/m²
- Highlight: **Variable Span Length Steel Pedestrian Bridge, High Corrosion Resistance Steel Walkway Bridge**
,
Load Capacity 400-600 Kg/m² Steel Elevated

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Product Description:

The Steel Pedestrian Bridge is an exceptional solution designed to provide safe, durable, and efficient passage for pedestrians across various obstacles such as roads, railways, rivers, and other challenging terrains. Engineered primarily from high-quality steel, this bridge type is commonly referred to as a Steel Elevated Footbridge or Steel Walkway Bridge, highlighting its elevated structure and robust material composition. Its design ensures both functionality and aesthetic appeal, making it an ideal choice for urban, industrial, and recreational environments.

One of the standout features of the Steel Pedestrian Bridge is its impressive load capacity. Typically, it can support loads ranging from 400 to 600 kilograms per square meter, making it suitable for heavy pedestrian traffic, including groups of people, cyclists, and even light maintenance vehicles in some configurations. This high load capacity is achieved through meticulous engineering and the use of steel, which offers exceptional strength-to-weight ratio compared to other construction materials.

The weight of the Steel Elevated Footbridge varies depending on the span and specific design requirements. Generally, the weight ranges from approximately 50 to 150 kilograms per square meter. This variation allows for flexibility in design, enabling the bridge to be customized according to site-specific conditions and load requirements. Whether the bridge needs to span a short distance or cover a longer stretch, the steel structure can be optimized for maximum performance without compromising safety.

Durability and longevity are critical aspects of pedestrian bridge construction, and this is where the steel material truly excels. The Steel Walkway Bridge is highly resistant to corrosion, ensuring that the structure maintains its integrity and appearance even in harsh weather conditions or corrosive environments such as coastal areas or industrial zones. Advanced coatings and galvanization processes are often applied to further enhance corrosion resistance, significantly reducing maintenance costs and extending the lifespan of the bridge.

The design versatility of the Steel Pedestrian Bridge allows it to be adapted to various architectural styles and functional needs. It can be fabricated in different shapes and sizes, with options for incorporating safety railings, non-slip walking surfaces, lighting, and accessibility features such as ramps and tactile indicators. This makes the Steel Elevated Footbridge not only a practical infrastructure element but also a contributor to urban beautification and pedestrian comfort.

Installation of the Steel Walkway Bridge is typically straightforward and efficient, thanks to prefabricated components that can be quickly assembled on-site. This reduces construction time and minimizes disruption to surrounding areas. The modular nature of the steel components also facilitates future modifications or extensions if the need arises, providing a long-term solution for pedestrian connectivity.

In summary, the Steel Pedestrian Bridge, also known as a Steel Elevated Footbridge or Steel Walkway Bridge, offers an optimal combination of strength, durability, and design flexibility. Its high load capacity, ranging from 400 to 600 Kg/m², and corrosion resistance make it a reliable choice for various pedestrian crossing needs. With weight dependent on span and design, typically between 50 and 150 Kg/m², this bridge type can be tailored to meet specific site requirements while ensuring safety and longevity. Whether for urban infrastructure, park pathways, or industrial access, the Steel Pedestrian Bridge stands out as a superior structural solution that enhances pedestrian mobility and safety.

Features:

Product Name: Steel Pedestrian Bridge

Type: Pedestrian Bridge, suitable as a Steel Walkway Bridge, Steel Footbridge Structure, or Steel Pedestrian Overpass

Customization Options: Color, Length, Width, Railing Design

Load Capacity: Typically 400-600 Kg/m²

Weight: Depends on Span and Design, approximately 50-150 Kg/m²

Surface Finish: Painted or Galvanized for durability and corrosion resistance

Technical Parameters:

Typical Usage	Urban Areas, Parks, Campuses, Industrial Sites
Load Capacity	Typically 400-600 Kg/m ²
Material	Steel
Surface	Painted Or Galvanized
Deck	Anti Skid Steel / Aggregate
Safety Features	Handrails, Non-slip Surface
Span Length	Variable (typically 10-50 Meters)
Design Standards	Complies With Local Building Codes And Pedestrian Bridge Standards
Weight	Depends On Span And Design, Approx. 50-150 Kg/m ²
Corrosion Resistance	High

Applications:

The Steel Pedestrian Bridge is an essential infrastructure solution designed to provide safe and efficient passage for pedestrians across various obstacles such as rivers, roads, railways, and uneven terrains. Known for its robust construction and versatility, the Steel Walkway Bridge is ideal for a wide range of application occasions and scenarios, making it a preferred choice in both urban and rural environments.

One common application of the Steel Elevated Footbridge is in urban settings where it facilitates the safe crossing of busy roads and highways. By elevating pedestrian traffic above vehicular lanes, it significantly reduces the risk of accidents and improves traffic flow. This makes it particularly valuable in cities with heavy traffic congestion, near schools, shopping centers, and public transportation hubs. The typical load capacity of 400-600 Kg/m² ensures that the bridge can comfortably support a high volume of foot traffic without compromising safety or structural integrity.

In recreational parks, nature reserves, and hiking trails, the Steel Footbridge Structure serves as a durable and reliable pathway that blends functionality with environmental harmony. Its anti-skid steel or aggregate deck provides excellent traction, ensuring safe footing even in wet or slippery conditions. Handrails and non-slip surfaces are standard safety features that enhance user confidence and prevent accidents, making these bridges suitable for all age groups and abilities.

Industrial and construction sites also benefit from the Steel Walkway Bridge, where temporary or permanent elevated footbridges enable workers to traverse hazardous areas safely. The customization options available, including color, length, width, and railing design, allow these bridges to be tailored to specific site requirements and aesthetic preferences, ensuring seamless integration with the surrounding environment.

The variable span length, typically ranging from 10 to 50 meters, provides flexibility in spanning different obstacles, whether it's crossing a small stream or a wide roadway. Structural engineers and planners can customize the dimensions and features of the Steel Elevated Footbridge to meet the unique demands of each project, ensuring optimal performance and user safety.

In summary, the Steel Pedestrian Bridge is a versatile solution suitable for urban crossings, recreational pathways, industrial sites, and more. Its strong load capacity, customizable design, safety features, and durable materials make it an indispensable component in modern pedestrian infrastructure, promoting safety, accessibility, and convenience across diverse application scenarios.

Customization:

Our Steel Pedestrian Overpass offers extensive product customization services to meet your specific project requirements. The weight of the Steel Pedestrian Crossing Bridge depends on the span and design, typically ranging from approximately 50 to 150 Kg/m². Designed to comply with local building codes and pedestrian bridge standards, this Steel Pedestrian Overpass ensures safety and durability. The load capacity of the bridge usually ranges between 400 and 600 Kg/m², making it suitable for various pedestrian traffic demands. Installation is streamlined through prefabricated sections with bolted connections, allowing for efficient and secure assembly on site. Customization options for the Steel Pedestrian Overpass include choice of color, length, width, and railing design, enabling you to tailor the bridge to your aesthetic preferences and functional needs. Whether you require a specific dimension or style, our Steel Pedestrian Crossing Bridge can be adapted accordingly to deliver a perfect solution for your pedestrian infrastructure.

Support and Services:

Our Steel Pedestrian Bridge product is designed to provide durable and reliable crossing solutions for pedestrians in various environments. To ensure optimal performance and longevity, we offer comprehensive technical support and services. Technical support includes assistance with installation, maintenance guidelines, and troubleshooting. Our team of experts is available to provide detailed product information, structural specifications, and customization options to meet your project requirements. We also provide on-site inspection services and routine maintenance plans to help preserve the integrity and safety of your steel pedestrian bridge. Replacement parts and upgrade options are available to accommodate evolving needs and ensure compliance with safety standards. For project planning and implementation, we offer engineering consultation to optimize bridge design and integration with existing infrastructure. Our goal is to support you throughout the lifecycle of the product, from initial planning through long-term maintenance.



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