## FLATBED / DECK TRAILERS

FLATBED TRAILERS TECHNICAL SPECIFICATIONS LATEST PROJECTS

CATALOGUE & USER'S MANUAL

#### **General Technical Specifications for Flatbed Trailers**

Flatbed trailers are essential for transporting heavy, oversized, or irregularly shaped cargo. Their open, flat platform provides maximum flexibility for loading and unloading, making them ideal for a wide range of industries, including construction, logistics, and manufacturing. Below is an overview of the typical technical specifications for flatbed trailers, ensuring they meet the performance, safety, and durability requirements for heavy-duty transport.



## 1. Dimensions and Capacity

Specification	Details
	Standard lengths range from 12 meters to 27.5 meters, depending on the model and customization.
	Standard width is 2.55 meters (102 inches), but custom widths can be made available for oversized loads.
"	Standard height is 1.5 meters, customizable depending on the trailer's intended use.
	Common deck height is between 1.2 meters and 1.45 meters, adjustable for specific loading needs.
1	Varies between 30,000 kg to 50,000 kg (66,000 lbs to 110,000 lbs), depending on the trailer configuration and axles.
	Payload capacity typically ranges from 18,000 kg to 45,000 kg (40,000 lbs to 99,000 lbs).

## 2. Chassis and Construction

Specification	Details
	Constructed from high-tensile steel for maximum strength and durability. The chassis is designed to handle heavy loads, with the steel providing superior performance under stress.
Decking Material	Made from hardwood, steel, or reinforced steel plating to provide strength and load-bearing capacity.
	Made from steel, spaced to support the decking and ensure even load distribution.
	Available in air suspension, mechanical suspension, or hydraulic suspension, providing options for different transport needs and cargo types.

### 3. Axles and Wheels

Specification	Details
Axle	Available in tandem (two axles), tri-axle (three axles), and quad-axle (four
Configuration	axles) configurations to handle varying load capacities.
Axle Capacity	Each axle can support between 9,000 kg and 16,000 kg, depending on the
	trailer's design and application.
Brakes	Air brake systems with drum brakes or disc brakes, designed for safe and
	efficient braking in various load conditions.
Wheels and	Equipped with durable steel rims and high-performance radial tires, often
Tires	rated for 385/65 R 22.5 or 11R22.5 size tires.

## 4. Loading and Unloading Features

Specification	Details
Loading	Designed for side-loading, rear-loading, and top-loading for increased
Method	flexibility when handling large or oddly shaped cargo.
Tie-Down	Equipped with stake pockets, side rails, D-ring tie-downs, and twist locks to
Points	secure cargo effectively during transit.
Winch	Optional manual or electric winch for easier loading of heavy machinery or
	oversized items.

## 5. Electrical and Safety Features

Specification	Details
Lighting	24V LED lighting system with side lamps spaced every 2.5 meters for
System	improved visibility and safety.
Reflective	High-visibility reflective tape placed on sides and rear for night-time visibility
Таре	and road safety.
Safety	Complies with ADR and DOT standards for safety markings, including
Markings	reflective crosses and velocity plates.
Parking Brake	Equipped with spring-actuated parking brakes for added safety during
	stationary operations.

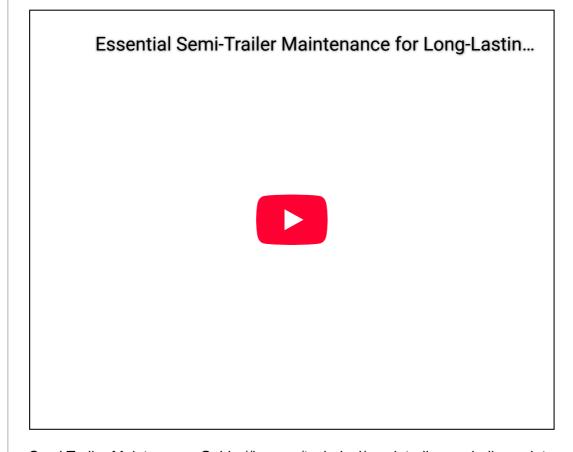
## 6. Customization Options

Specification	Details
Extended Lengths	Customizable lengths available, ranging from 12 meters up to 27.5 meters depending on transportation needs.
Drop Deck Configuration	Optional drop-deck for lower deck heights, ideal for taller cargo or specific loading requirements.
Side Rails/Fenders	Side rails and fenders can be added for better cargo containment and protection.
Toolboxes	Lockable toolboxes for secure storage of equipment and tools.
Suspension Upgrades	Upgraded air-ride suspension systems for transporting sensitive cargo that requires smoother rides.

#### 7. Maintenance and Durability

Flatbed trailers are built for long-lasting performance, but routine maintenance is essential for optimal operation:

- Tire Maintenance: Regular tire inspections and pressure checks are necessary to ensure safe transportation and maximize tire lifespan.
- Brake System Checks: Periodic inspection of the brake pads, air brake lines, and braking system functionality is crucial to maintaining safety.
- Suspension Inspection: Regular checks for wear in suspension components such as airbags, leaf springs, and shock absorbers help ensure stability and load distribution.
- Frame and Deck Checks: Inspections for cracks, rust, or structural damage on the frame and decking should be conducted regularly to maintain trailer integrity.









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