

## Technical Specification – Extendable Flatbed Semi Trailer (38.5 m, 4 Extensions) Dimensions

- **Closed Length:** 13,600 mm
- **Extended Length:** 38,500 mm (4 telescopic extensions)
- **Width:** 2,600 mm

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### Chassis

- Manufactured from **ST-52 high strength steel** with I-beam chassis design
- Reinforced cross members for heavy-duty operation

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### Axles & Steering

- **3 Hydraulic steering axles** (remote-controlled)
- Capacity: **14 tons per axle**
- TUV-certified, heavy-duty type axles
- Hydraulic steering ensures precise maneuverability both forward and backward

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### Suspension & Braking

- **Heavy-duty air suspension system** on 3 axles
- **WABCO 2-line pneumatic brake system** with **EBS** (Electronic Braking System)

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### King-Pin & Landing Gear

- **King-Pin:** OMS brand, 2" with protection cover, designed to withstand ~20 tons load
- **Landing Legs:** OMS brand, 24 ton capacity, double-speed mechanical, TUV-certified

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### Load Distribution by Extension

- **Closed (13.6 m):** Up to **45–48 tons payload**
- **1st Extension (~20 m):** Up to **40 tons payload**
- **2nd Extension (~27 m):** Up to **35 tons payload**
- **3rd Extension (~33 m):** Up to **28–30 tons payload**
- **4th Extension (38.5 m):** Up to **24–26 tons payload**

*(Values are approximate and depend on road regulations and cargo type.)*

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### Platform & Cargo Equipment

- **Stanchions:** 80 × 80 mm, 5 mm profile, rubber lined surface
- **Floor:** High resistance / long-life steel & hard wood planks

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### Wheels & Tyres

- Tyres: **12R22.5** (12 + 2 spare)
- Rims and tyres with TUV certificate – Regular type

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### Electrical System

- **SABA brand 24 V system** with ADR certificate
  - Side LED lamps every 2.5 m
  - 15 + 7 pin connectors
  - Rear lamps with steel protection (open/close type)
  - Reflectors, velocity plates, number plate lighting
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**Paint**

- **Epoxy primer + polyurethane RAL paint system**
  - Logos and accessories in requested RAL code
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**Accessories**

- 2 × projectors
- 6 × stanchions per side (1,800 × 80 × 80 mm)
- Pillar storage unit
- Two-piece front wall
- Handling winch for 6 mm cable
- Lashing rings & Ro-Ro rings
- Bumper and number plate frame
- Spare tyre carrier with locking system
- Toolbox & water tank
- 6 × mudguards
- Fire extinguisher box
- Small license box
- 2 × rear rubber chocks
- Reverse alarm system

**Warnings & Operational Notes**

- **⚠ No Load on Extension Gaps:**  
Loads must **not** be placed directly on the telescopic extension sections. Cargo must always rest on the **main chassis beams** and evenly distributed across axles.
  - **⚠ Load Distribution:**  
Ensure that cargo weight is distributed evenly. Do not exceed the indicated **payload capacity for each extension stage**.
  - **⚠ King-Pin Load:**  
Maximum king-pin load is approximately **20 tons**. Overloading this area may cause structural damage and unsafe driving conditions.
  - **⚠ Axle Capacity:**  
Each axle is rated for **16 tons** maximum. Exceeding this limit reduces service life and may lead to accidents.
  - **⚠ Turning Operation:**  
During turning maneuvers with hydraulic steering, always switch back to **“road position”** before continuing on highway speeds.
  - **⚠ Safety Equipment:**  
Reflectors, twist locks, fire extinguishers, and reverse alarm must be checked regularly before each trip.
  - **⚠ Regulations:**  
Payload limits depend on **road legislation** in the country of operation. Local restrictions may override trailer capacity.
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