

Order no.: REF-30313890

Modular roof working platform



Specification

Business division MUNK Günzburger Steigtechnik	Sector Rail vehicles	Type mobile	Height adjustable
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Facts

- Walkway: Length: max. 40 m (segment platform length variable 5,210 / 6,060 mm)
- Walkway: width: 800 / 1,050 mm (different widths depending on segment) - plus 300 mm fold-down angle
- Walkway: Platform height min.: 3,000 mm
- Walkway: Platform height max.: 3,700 / 4,500 mm
- Chassis: Swivel castors: Ø 200 mm, 4 per segment
- Chassis: Support spindles: 4 per segment
- Chassis: Chassis beam width: 990 / 1,250 mm
- Walkway: Decking: Aluminium ribbed (R9)
- Railing: Height: 1,100 mm

Description

Client's Request and Task

The project goal was to develop a modular roof working platform, specifically designed for maintenance work on train roofs. The construction had to ensure flexible adaptability in the length dimension while allowing user-friendly assembly. It was essential to create a working environment that prioritizes ergonomics and safety for the maintenance personnel. Additionally, the working platform had to offer stability and reliability while complying with the relevant standards to meet our client's high requirements.

Customer Requirements

- Roof working platform for maintenance work on train roofs

- Railing: Aluminium tube: Ø 40 mm
- Railing: rigid design
- Railing: safety gate: frontal, spring-loaded
- Vario stairs: Vertical height max.: 4,500 mm
- Vario stairs: Vertical height min.: 3,000 mm
- Vario stairs: Total width: 1,300 mm
- Vario stairs: Step width: 800 mm
- Vario stairs: Step depth: 240 mm
- VarioStairs - Chassis: Swivel castors (4 pieces): Ø 125 mm
- VarioStairs - Chassis: Mobile beam width: 1,250 mm
- Vario stairs: Handrail: Rigid on left and right long side
- Vario stairs: Tread: Aluminium ribbed (R9)
- Surface load: 1.5 kN/m²
- Total load: 500 kg
- Step load: 150 kg

- Modular adaptability in length for various train types
- User-friendly construction for easy handling
- Ergonomic working conditions to minimize strains
- Standard-compliant and stable construction for maximum safety and reliability

Our Solution

Modular Working Platform System

We developed a system consisting of two roof working platforms, which can be positioned on both the left and right sides of a train. Each side consists of four individual modules and three insert platforms, which can be extended to a total length of up to 40 meters without a staircase.

Flexibility and Adaptability

The platform height can be manually adjusted in 100 mm increments using a hand crank and a toothed rack, which enables customised height adjustment. The individual modules are equipped with a trolley so that they can be easily positioned and adjusted.

Safety Features and Ergonomics

The roof working platform offers optimal safety through fall protections, such as self-closing safety doors and foldable as well as telescopic railings at the front and back. Additionally, the support frames are clad with perforated sheet metal, providing extra protection and simultaneously reinforcing the structure.

Accessibility and Protection

Accessibility is ensured by variostairs, which are protected from unauthorized access by an enclosure with a self-closing door. The foldable angle on the train-facing longitudinal side protects the train from damage and provides a safe and comfortable work area for the personnel.

Technical Specifications and Construction

With a variable platform length of up to 40 metres and an adjustable platform height of 3,000 mm to 4,500 mm, our solution meets the technical requirements for a wide range of train types. Stability and load capacity are guaranteed with a surface load of 1.5 kN/m² and a total load of 500 kg.

Conclusion

Our innovative modular roof working platform represents a precise and standard-compliant solution, specifically tailored to the client's needs. It offers a flexible, safe, and ergonomic work environment, enhancing the efficiency of maintenance processes and protecting personnel from hazards. The ability to adapt to various train types and easy handling make the platform an indispensable tool in modern railway maintenance.

Information on sustainability criteria

- Corporate certification: ISO 9001
- Corporate certification: EN 1090
- Corporate certification: EcoVadis
- RoHS
- REACH
- The MUNK Group complies with a Code of Conduct
- The Supply Chain Act does not apply due to our size
- The materials used are listed in the technical specification
- Resource-saving production: own photovoltaic systems
- Energy-efficient consumption during production: LED lighting
- Repairability, durability and quality: 15-year warranty on series products made in Germany
- Recyclability: Our products are mostly made of aluminium, steel or wood and can be fed directly into the recycling process.
- Socially acceptable working conditions in production: fair wages, gender equality
- Economical and recyclable packaging: no use of polystyrene, predominantly use of wood and cardboard, small amounts of plastic

- No health hazards for the users

More product pictures



Added value



From decades of experience, we know that individual requirements require special solutions. That's why we are here to help you realize your custom construction.

Get inspired by our reference products and make your unique idea a success. We look forward to supporting your project with our expertise and dedication. Contact our competent team for more information and assistance.

With MUNK Group by your side, your custom construction becomes a reality: Safety. Made in Germany.

What we offer

- On-site consultation and project planning
- Custom development according to your requirements
- Precision manufacturing
- Functional and cost-effective access solutions
- Maximum workplace safety
- Fast delivery
- Compliance with all relevant German, English, and international standards and regulations, such as BetrSichV, DGUV regulations, Machinery Directive 2006/42/EC

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Corporate certifications

on sustainability criteria

