

## Zeman & Co and Klik Bühnensysteme

Roof working platforms are a complex mixture of steel construction, mechanical engineering, drive and control technology. Decades of experience have made Zeman and Klik reliable and competent partners.

Zeman & Co has over 60 years of experience in steel construction, 50 years in mechanical engineering and 16 years with its Zeman Railway Solutions.

Klik Bühnensysteme has been offering customer-orientated solutions in the areas of access systems, platform, railway and safety technology as well as special constructions for over 40 years.



## Competence in Steel



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Klik Bühnensysteme

# ZEMAN RAILWAY SOLUTIONS

The roof of trains is being fitted with more and more technology. This includes air conditioning and ventilation systems, pantographs and antennas. Zeman Railway Solutions (ZRS) offers the right solutions for every location to get trains back on the rails quickly. Flexible, safe and efficient.

[zeman-group.com](http://zeman-group.com)



## 16 years roof working platforms for the railway industry

Zeman & Klik have been implementing customised solutions for renowned railway companies in the DACH region for 16 years.

In **Germany**, the advanced installations for DB range from Munich to Cottbus, each specifically tailored to the requirements of the individual locations.

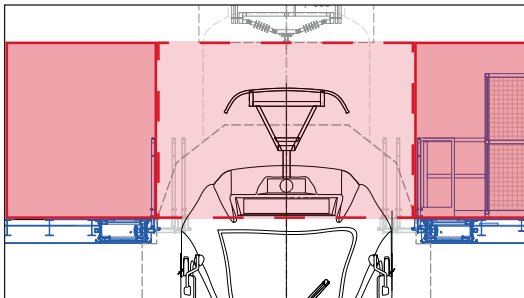
In **Austria**, its systems support ÖBB in maintaining its fleets at central hubs such as Vienna, St. Pölten and Innsbruck.

In **Switzerland**, its solutions are helping to further increase the efficiency of SOB's rail transport operations.



## Requirements for the roof working platforms

- 1 Safety:** fall protection, safety with active overhead lines, safe access and escape route.
- 2 Working height:** fixed or adjustable according to customer requirements.
- 3 Standard clearance profile:** The standard clearance profile remains free for trainentry and exit of trains.



## Zeman Railway Solutions

Customisable working heights, elevated or suspended platforms that can be moved in all directions. As an experienced steel constructor, Zeman offers maximum flexibility.

- 1 Risk of falling:** Working levels approach the train fully automatically. When at rest, the standard clearance profile remains free. Sophisticated Zeman system railing as fall protection. R11 anti-slip aluminium platform surface in accordance with DIN EN 16165:2023-02.
- 2 Electrical risk from overhead lines:** access to the working levels only when the overhead lines are de-energised and earthed, including system monitoring and logging.
- 3 Safe entrances and escape routes:** Different entrances and escape routes with status sensors.
- 4 Crane systems:** Enhancements such as integrated crane systems are possible.