

ENB Liedbachtal Bridge, A 1 - Segment-by-Segment Construction



SHORT DESCRIPTION

The existing Liedbachtal Bridge has only a limited operating permit and must be replaced. Once construction is complete, the new bridge will be moved into position using a transverse sliding method.

THE PROJECT

The ENB Liedbachtal Bridge on the A1 was constructed as a prestressed concrete bridge with a double-walled box girder cross-section.

The structure consists of two superstructures, each approximately 330 m long.

Construction was carried out using the incremental launching method, in which the superstructures were built in sections approximately 30 m long and advanced to their final positions.

This construction method allowed the bridge to be built cost-effectively and with minimal disruption to the surrounding

terrain.

SERVICES IN DETAIL

Prestressing Technology, Bridge Construction:

- Internal strand tensioning method with subsequent bonding; external strand tensioning method, Type E
- Internal strand tensioning method L15 per Z-13.1.-114
- 670 metric tons of L15 prestressing steel
- 124 L15 tensioning anchors
- 124 L15 fixed anchors embedded in concrete
- 740 Fixed overlap coupling L22
- External tensioning method per Z-13.73-110123
- 300 metric tons of prestressing steel - 96 L15E prestressing anchors
- 96 L15E fixed anchors Approx. 700 deflection points
- Tensioning of the cantilever nose with tension members, L7, L9, and L12
- Tensioning in the box girder

CHALLENGES

- Double-cavity truss, very wide, with a large number of tension members that must be installed within a tight timeframe.

FACTS

Location	Unna , Germany
Status	Under construction
Construction volume (value of our services)	2.66 M EUR
Start of construction	January 2022
Completion	December 2026
Building owner	Die Autobahn, NL Westfalen, Hamm
Contracting entity	AMAND GmbH & Co. KG



<https://www.bbv-systems.com/en/projects/detail/ref/enb-liedbachtalbruecke-a-1-taktschieben/>

Creation: 04.09.2026 08:36