

Brücke E221



SHORT DESCRIPTION

The E221 project is located in Pęcławice in Poland. The bridge consists of two adjacent superstructures.

THE PROJECT

The bridge has a total length of 1,540 m. It is part of the A1 motorway from Toruń to Stryków. As a subcontractor to the construction company STRABAG, BBV Systems was responsible for the post-tensioning work, which included the installation of internal and external tendons.

The superstructures were built using advancing scaffolding. The use of advancing equipment made it possible to build a 45-meter-long bridge section per superstructure and per week. In total, over 2,000 t of BBV L19 tendons were installed for the internal prestressing, approx. 26 t per construction section.

In order to be able to cope with this amount in the shortest possible time, prefabricated tendons were used. In the BBV

Systems production hall in Gdańsk, 52 tons of tendons were prefabricated a week to ensure that the construction site was supplied with prefabricated tendons on time. The external tendons of the type BBV L19E with a total length of almost 3,000 m were produced on the construction site.

FACTS

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| Location | Pęławice , Poland |
| Status | completed |
| Start of construction | April 2011 |
| Completion | August 2012 |
| Building owner | GODKiA Łódź |
| Contracting entity | STRABAG /DYWIDAG |
| Planning | Stahler & Knoppik |

SERVICES

Post-tensioning system

Bridge construction



<https://www.bbv-systems.com/en/projects/detail/ref/bridge-e221/>

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