

SUCCESS STORY

REINFORCED SLIDING BEARINGS

Renovation of Hassfurt River Main Floodplain Bridge

PROJECT DETAILS

Short description

Partial upgrade of the River Main Floodplain Bridge with high-performance sliding bearings

Requirement

The 235-metre-long stone arched bridge comprises twenty spans. The bridge's structural strength and stability needed to be restored due to damage. Its foundations and arches remained the same.

Location, year

Hassfurt, Germany, 2019

PROJECT DESCRIPTION

The planning concept stipulated that the roadway deck slabs were to be arranged over the entire surface as sliding elements on the substructure. Multiple fixed points transfer the horizontal loads.

SOLUTION

Ciparall® sliding bearings in a strip-shaped arrangement proved to be the optimum solution. The new concrete carriageway slab is laid flat on the historical substructure using the sliding bearings. This type of partial bridge upgrade enabled the natural stone arched bridge with twenty rows of arches dating from 1888 to be adapted to current requirements while preserving the historic structure.

The advantages:

- Wear-free sliding bearing support
- Homogeneous stress distribution thanks to strip bearing

