St. Nicolas Bridge (France)



Project description

After the Second World War the Americans were building the iconic bridge of St. Nicolas in Revins, Ardennes, by using elements from the port of Arromachnes in Normandie. They thus provided a crossing over the Meuse River.

The aim for its re-construction had been to replace the single-lane bridge that represents an obstacle to the river flow in flooding conditions. It shall provide both roadways, a bidirectional cycle lane and two pedestrain paths. The new steel deck has a weight of 900 tons, a length of 128 m, and a variable thickness of 1.8 m to 3 m from abutements to pile.

mageba scope

To accomodate the movements in every direction, mageba supplied multi-gap expansion joints TENSA®MODULAR that can be used for very large longitudinal movements of well over 2,000 m. This joint type comes with a watertight system, which was invented by mageba several decades ago and has been continually developed in recent decades. The current 4th generation of the system fully accomodates high demands and thus has been a perfect solution for the new steel bridge.

Highlights & facts

mageba products:

Product: TENSA®MODULAR

LR-2 and RS expansion

joints Installation: 2015

Structure:

City: Revin
Country: France
Completed: 2015

Type: steel bridge Length: 128 m

Contractor: Eiffage and Bouygues Architects: Greish Engineering

Bureau

Owner: Conseil général des

Ardennes, Direction of roads and infrastructures

The steel bridge is located in Revin in the French Ardennes and borders on Belgium.



Installation of the TENSA® Modular joints with a total length of 15.5 m.



Schematic illsturation of the TENSA® MODULAR expansion joint



