mageba

B 327 Southern bypass, Koblenz (Germany)

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Project description

Südbrücke in Koblenz is an important traffic route across the Rhine. As part of a large-scale southern bypass, which carries six lanes, it connects the B 327 federal highway on the left side of the Rhine near Oberwerth and the B 49 on the right side of the Rhine (Horchheim). The "Südtangente Koblenz" has a total length of 12 km and was realized in two construction phases from 1969 to 1975.

Due to damage to all existing expansion joints, the modular joints and three roller shutters had to be replaced on the highway access structures.

The existing roller shutter joints of the Rhine bridge at the Oberwerth abutment, however, were designated for extensive renovation and repair work.

mageba scope

The project included the supply and replacement of two lamella joints and three roller shutters along the highway access structures. The modular expansion joints were replaced with TENSA®MODULAR expansion joints of type LR2 and LR10 in hybrid design. The old roller shutter constructions were replaced with new roller shutter joints of identical design. This was only possible thanks to the detailed knowledge about the old roller shutter constructions from the 1970's, based on the original design drawings from five decades earlier as manufactured by Sollinger Hütte.

In addition, the roller shutter elements of the Rhine Bridge on the "Oberwerth" abutment were undergoing extensive renovation work.

Highlights & facts

mageba products:

Type:	TENSA®MODULAR LR2 and LR10 expansion joints in hybrid design
	"Roller shutter" expansion joints
Installation:	2020

Structure:

City:	Koblenz
Country:	Germany
Built:	1975
Type:	Girder bridge
Length:	442 m
Owner:	Landesbetrieb Mobilität Koblenz
Contractor:	Schnorpfeil Treis Karden
Designer:	Georg Strigl

The project is located in Germany in the town of Koblenz

Special "hybrid" TENSA®MODULAR expansion joints were installed at two locations of the bridge

Lifting of the last roller shutter element into position