Ba Lin He Bridge (China)

Project description

Carrying the Zheng Shen expressway in Guizhou Province across a deep river gorge, the Ba Lin He Bridge has a main suspension span of 1,088m and a total length of 2.2km. At its highest point the composite deck is 370m above the river. Sidespans are 248m and 228m long respectively.

The crossing was opened in 2008, completing the new expressway link between the towns of Bai Shui and Cheng Guan, and encouraging the development of Guizhou, which is relatively poor compared to China's coastal provinces. Main industries are forestry and the mining of coal, limestone, arsenic and oil shale, although the province is well-known as the home of China's favourite alcoholic beverage, Maotai liquor. Much of western Guizhou is mountainous, and the climate is subtropical and humid.

Delivered products

Four TENSA®MODULAR expansion joints type LR21 were required, with longitudinal movement capacity of 1,680mm. These permit movements and rotations in all three directions. All TENSA®MODULAR expansion joints feature mageba's ROBO®SLIDE sliding materials, patented asymmetric control system for even gap distribution, and are 100% watertight. An anti-skid coating prevents sliding on the joints when the road is wet. The weight of each expansion joint is approximately 26 tons.

Highlights & Facts

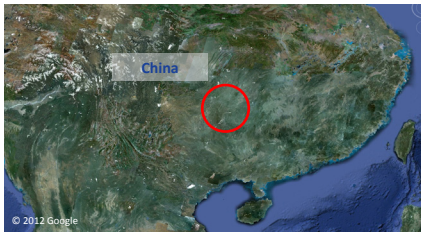
mageba Products:

Type:	4 TENSA®MODULAR expansion joints type LR21 with ROBO®SLIDE
Features:	max. movement 1'680 mm
Installation:	2009

Bridge:

City:	Guizhou
Country:	China
Type:	Suspension bridge
Length:	2'200 m

Guizhou is famous for its historic covered bridges



One of the TENSA®MODULAR expansion joints during installation

An expansion joint after positioning in the bridge deck

mageba Switzerland www.mageba.ch

mageba sa - Solistrasse 68 - 8180 Bülach - Switzerland - T +41 44 872 40 50 - info@mageba.ch