

Thang Long Bridge (Vietnam)



Project description

The Thang Long Bridge, built between 1974 and 1985, was the first bridge connecting Hanoi's city centre across the Red River to the city's northern suburbs and its international airport, and remained the only one until 2015.

Therefore the steel through-truss bridge of length 3.5 km, which carries cars and trucks on its upper deck and trains, motorcycles and bicycles on its lower deck, is critically important to the local population.

But when it became necessary to resurface the upper deck due to serious deterioration of the driving surface, it was decided to close this part of the bridge for several months while the work was carried out.

With the upper deck closed to traffic, 27,000 m² of its surface were renovated using ultra-high performance concrete, with a layer of polymer concrete on top.

mageba scope

To satisfy the project's needs, mageba supplied 6 TENSA®MODULAR expansion joints, each with the four individual movement gaps needed to facilitate movements of up to 320 mm.

The joints' designs were carefully tailored to match the design of the existing steel structures, and the gap between them, at each location.

The joints each have a total length of approximately 20 m but were delivered in two sections to facilitate easier and safer transport to site in 40-foot shipping containers. This required welding together on site using the specialised "Secheron" welding method, and insertion of rubber sealing profiles in the second part installed.

Highlights & Facts

mageba products:

Type: TENSA®MODULAR LR4 expansion joints
Installation: 2020

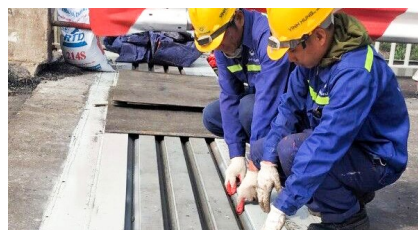
Structure:

City: Hanoi
Country: Vietnam
Type: Steel through-truss bridge
Built: 1974–1985
Contractor: Vinh Hung Trading, Consulting And Construction JSC, in joint venture with Thanh Hung, Thuan An and Phuong Thanh
Owner: Directorate for Roads of Vietnam – Ministry of Transport of Vietnam

Thang Long Bridge crosses the Red River in Vietnam's capital, Hanoi



Installation of one of the TENSA®MODULAR LR4 joints



An installed TENSA®MODULAR LR4 joint

