

Traismauer Bridge (Austria)



Project description

The Traismauer Bridge (also known as St. George's Bridge) over the River Danube close to Vienna opened to traffic in 2010. It has an overall length of 1125 m including approaches at both sides, and cost EUR 170 million to construct. The main river crossing is a prestressed reinforced concrete structure with a length of 356 m and a main span of 156 m. As a result of its design, without any cables supporting the deck in spite of the significant spans, the bridge manages to minimise the visual impact on the scenic surrounding landscape, while facilitating the great volume of traffic on the Danube, one of Europe's busiest shipping routes.

mageba scope

mageba supplied and installed two different types of finger expansion joint to accommodate the deck's movements. At the abutments, where movements of up to 300 mm may arise, TENSA®FINGER type RSFD cantilever finger joints were installed, while TENSA®FINGER type GF sliding finger joints were used to facilitate larger movements of up to 480 mm at intermediate piers. Both types of joint, with similar surfaces of interlocking fingers, minimise noise and maximise comfort for road users as vehicles pass over the bridge, protecting the area's natural serenity.

The expansion joints were manufactured locally, at mageba's long-established factory in Fussach, Austria.

Highlights & facts

mageba products:

Type: TENSA®FINGER type GF sliding finger joints, TENSA®FINGER type RSFD cantilever finger joints

Installation: 2010

Structure:

City: Vienna
Country: Austria
Type: Prestressed reinforced concrete bridge

Completed: 2010
Length: 1125 m
Contractor: Alpine Bau

The bridge crosses the Danube River to the west of Austria's capital, Vienna.



Loading of some of the expansion joints on a truck for transport to site.



A successfully installed TENSA®FINGER Type GF sliding finger expansion joint.

