

Brăila Bridge (Romania)



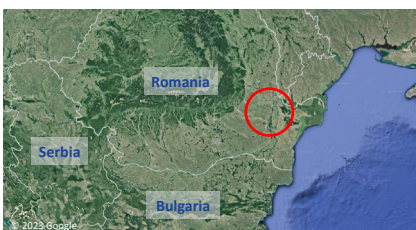
Project description

The new Brăila Bridge, close to the port city of Brăila, is the first structure that crosses the maritime Danube in Romania, and will improve the transportation between the Galați-Brăila area and Constanța, and between the Moldavian and Muntenia regions and Dobruja.

It is Romania's longest suspension bridge with its total length of 1,974 m. Its main span measures 1,120 m, while the deck of the structure is 31.7 m wide and it offers a clearance of 38 m for shipping underneath. Both access viaducts of the bridge have a length of 110 m.

The total cost of the project including the access viaducts and a 23 km-long connecting road is estimated to be €435 million.

The bridge is located near the city of Brăila in eastern Romania



mageba scope

For the bridge's main span mageba delivered 4 horizontally installed spherical bearings, and another 8 spherical bearings that were positioned vertically as buffers.

Large modular expansion joints of types LR19 and LR23, based on mageba's new ETA design, were supplied to accommodate the movements of the bridge deck. The maximum movement capacity of the delivered LR23 modular joint is 2.3 meters. For the approach viaducts mageba delivered 24 RESTON®SPHERICAL bearings, which were installed horizontally on both sides of the structure.

In addition, 4 TENSA®GRIP RS single gap joints, along with 2 modular joints of type LR3 and 2 of type LR5 (with a movement capacity of up to 470 mm) were supplied.

The above mentioned products all fulfil the required longevity and fast replacement requirements for maintenance purposes.

Lifting of a TENSA®MODULAR LR19 joint to its final position



Highlights & facts

mageba products:

Type: TENSA®MODULAR LR modular expansion joints with anti-skid surfacing
TENSA®GRIP RS single gap joints
RESTON®SPHERICAL bearings

Installation: 2022

Structure:

City: Brăila
Country: Romania
Type: Suspension bridge
Main span: 1,120 m
Length: 1,974 m
Completion: 2023
Owner: CNAIR
Contractor: Webuild S.p.A. and IHI Infrastructure System Co., Ltd.

View of an installed modular joint from below

