

Rama III – Dao Khanong Expressway Bridge (Thailand)



Project description

The construction of the new Rama III – Dao Khanong Expressway Bridge in Bangkok, a cable-stayed structure over the Chao Phraya River, is expected to be completed in late 2023.

With H-shaped pylons at both ends of its main span of 450 m, it will be the widest river bridge in Thailand, therefore the bridge requires very long expansion joints in its superstructure.

The expressway leading to the bridge has a length of 18.69 km and is being built in the second phase of the project.

mageba scope

For the new structure 68 m of TENSA®FINGER RSFD expansion joints with cantilever design and a movement capacity of 400 mm were designed and supplied.

In addition to these expansion joints, mageba also supplied 1,102 RESTON®POT bearings to support the superstructure of the five-kilometre long section of the expressway's viaduct leading to the bridge.

58 of these bearings are designed to resist uplift forces, and the largest bearings can support vertical loads of up to 12,750 kN.

Highlights & Facts

mageba products:

Type: RESTON®POT bearings
TENSA®FINGER RSFD expansion joints

Installation: 2022–2023

Structure:

City: Bangkok

Country: Thailand

Completion: 2023

Type: Expressway

Length: 18.69 km

Consultant: Asian Engineering Consultants Corp., Ltd (AEC)

Contractor: CH. KARNCHANG PLC.

Owner: Expressway Authority of Thailand (EXAT)

The expressway's bridge runs parallel to the Rama IX cable-stayed bridge over the Chao Phraya River



Installation of a TENSA®FINGER RSFD expansion joint in the deck of the expressway's viaduct



Packing and wrapping of the bearings for the optimal protection during their transport to site

