

2nd Penang Bridge (Malaysia)



Project description

The Second Penang Bridge is the longest bridge in Southeast Asia with a total length of 24 km. It connects Batu Kawan on the mainland of Malaysia with Seberang Perai and Batu Maung on Penang Island.

It features a dual pylon cable-stayed structure with a main span of 250 m and a clearance height of 30 m above sea level. The bridge has a dual carriageway with two lanes and a separate motorcycle lane on each side, allowing motorcycles to cross the bridge safely.

The first Penang Bridge was opened in 1985 and was also supplied with mageba Tensa®MODULAR expansion joints. With this second crossing, the traffic congestion on the first bridge is significantly reduced.

mageba scope

mageba has supplied Tensa®MODULAR expansion joints of type LR2 to LR5 for the bridge, as well as Tensa®GRIP single gap expansion joints of type RS-B.

All Tensa®MODULAR expansion joints are designed with a special seismic protection feature which allows transverse movements of up to 200 mm. Four of the Tensa®MODULAR expansion joints are Type LR-LS (featuring noise reducing surface plates), especially suitable for locations close to residential areas.

The Tensa®GRIP single gap expansion joints of type RS-B are very robust and can hence very easily cater for the 100,000 vehicles crossing the bridge every day.

Highlights & facts

mageba products:

Type: Tensa®MODULAR Type LR & LR-LS
Tensa®GRIP Type RS-B

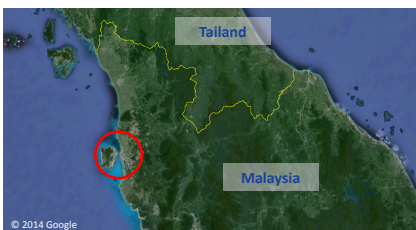
Features: Anti-seismic design and noise-reducing sinus plates

Installation: 2013

Structure:

Location: Penang
Country: Malaysia
Construction: 2008–2014
Type: Cable-stayed bridge
Length: 24 km
Builder: UEM Builders Berhad, China Harbour (CHEC)

Location of the 2nd Penang Bridge, Malaysia



mageba Tensa®MODULAR expansion joint of type LR 5 during installation



Tensa®MODULAR expansion joints of type LR-LS, ready for shipment to Malaysia

