

Lekki-Ikoyi-Bridge Lagos (Nigeria)



Description of the project

The proposal to construct a new bridge across the Osborne Lagoon in Lagos to connect the districts of Ikoyi and Lekki, was made in 2003 by the state government to decongest traffic on New Epe Expressway. The Lekki-Ikoyi bridge crosses the Five Cowry Creek. The plans for Nigeria's first cable-stayed bridge were drawn up by design specialists from Julius Berger Nigeria. The structure comprises a 700-meter approach bridge and a cable-stayed segmental bridge of more than 600 meters in length, at the centre of which is a 91 meter high pylon.

Scope of products delivered

Two TENSA®FLEX rubber compound sliding finger expansion joints with longitudinal movement capacity of 400 mm each will be installed. The very slender design of the bridge decks required a technical solution without major interaction with the structure itself. The proposed joints are simply bolted onto the deck structure ensuring 100 % water tightness. The sliding fingers of the upper part are installed with a downward pre-tension and therefore apply a permanent pressure to the opposing sliding surface of the lower part, allowing small vertical movements and rotations to be accommodated.

Highlights & Fakten

mageba products:

Type: 9 TENSA®FLEX Fingerfuge Typ RC
Features: max. movement 400 mm
Year of installation: 2010

Bridge:

City: Lagos
Country: Nigeria
Year of construction: 2010
Type: Cable-stayed bridge
Length: 700 m

Location of the Ikoyi - Lekki bridge across the Osborne Lagoon in Lagos



Approach span under construction



A TENSA®FLEX expansion joint

