

Spring Farm Parkway (Australia)



Project description

Mining in Australia is not limited to the most remote parts of the country, but takes place even close to major cities where highways must be constructed.

Since the Spring Farm Parkway near Sydney passes through a mining area the highway must be built to accommodate any ground subsidence that may result from the mining activities.

The four-lane highway of Stage 1 crosses an area that is subjected to longwall mining, so its main bridge structure had to be designed to accommodate large movements and rotations.

mageba scope

Having supported the bridge designers from the project's early stages, mageba went on to design, manufacture and test the required components, which included 48 RESTON®SPHERICAL bearings, 44 m of TENSA®MODULAR LR9 joint, 22 m of TENSA®MODULAR LR-LS, featuring mageba's special noise-reducing surfacing, 27 m of TENSA®GRIP RS expansion joint and 56 m of elastomeric bearing strips based on the LASTO®BLOCK F bearing in 2-metre lengths.

Were it not for the mining activity in the area, the bridge's movements and rotations could have been facilitated by smaller, simpler bearings and expansion joints, but thanks to the expert support provided by mageba's team in Sydney, the optimal solution could be developed to meet this structure's special subsidence-related challenges.

Highlights & facts

mageba products:

Type: LASTO®BLOCK F
 RESTON®SPHERICAL bearings
 TENSA®MODULAR LR and LR-LS joints
 TENSA®GRIP RS joints
 Installed: 2024

Structure:

City: Sydney
 Country: Australia
 Type: Highway bridge
 Owner: Transport for NSW
 Contractor: Georgiou Group Pty Ltd
 Designer: Jacobs

The project is situated near Sydney, the capital of New South Wales



TENSA®GRIP joints were supplied to accommodate smaller longitudinal movements



Installation of two TENSA®MODULAR LR joints, one for each carriageway, at one end of the bridge structure

