

Linea Amarilla Highway Viaducts (Peru)



Project description

The Linea Amarilla Highway involves the construction of an express highway across the city of Lima, connecting the Eastern and the Western part. This Peruvian megaproject that was approved in 2009 and has been started in 2012, is now shortly before the grand opening. Peru's capital and with a population of 9 million the country's largest city, can't wait to profit from the new connection that leads through 11 districts of Lima.

The highway has a total length of 17 km including tunnels – one tunnel of length 1.8 km runs under the river Rimac – and approximately 9 km of viaducts. In total the structure includes 10 viaducts.

mageba scope

mageba supplied four TENSA®MODULAR expansion joints for two viaducts - two of type LR6 and two of type LR7 (with 6 and 7 gaps respectively).

The largest of the expansion joints supplied accommodate longitudinal movements of 560 mm. The joints must also accommodate transverse movements of the same magnitude. Unusually for modular joints that must facilitate such large transverse movements, the joints also had to be equipped with noise-reducing sinus plates on their surface. These sinus plates thus required to be specially designed to allow the large transverse movements.

The joints were installed in December 2017, under mageba supervision.

Highlights & Facts

mageba Products:

Type: 4 TENSA®MODULAR expansion joints type LR6 and LR7

Installation: 2017

Features: Noise reducing sinus plates allowing large transverse movements

Structure:

City: Lima

Country: Peru

Type: Highway viaducts

Length: 9,000 m

Built: 2018

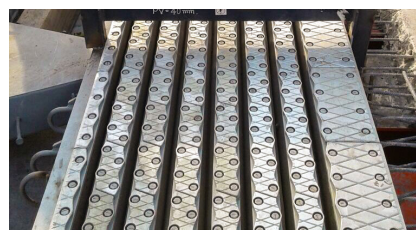
Owner: LAMSAC

Contractor: Graña y Montero

The viaducts are located in Lima, Peru's capital city



The joints feature noise-reducing sinus plates, specially designed to allow large transverse movements



The steel superstructure presented particular challenges for design and installation

