Oakland Airport Connector (USA)

Project description

Oakland International Airport, one of the key transportation hubs in the Bay Area of northern California, is now connected to the Bay Area Rapid Transit (BART) network by a new Automated People Mover (APM) system. The system features Doppelmayr cable-car technology, delivering passengers along the 3 miles (5.1km) track in just 8 minutes. The system will be fully automated, driverless and all-electric.

The cost of the project has been estimated at $492 million. California-based Flatiron/Parsons Joint Venture won the contract to design and build the system, and Doppelmayr Cable Car, Inc. won the contract to operate and maintain the system once built.

mageba's scope

mageba supplied 775 elastomeric bearings for the elevated structure, supporting the steel guideway above its concrete columns. The bearings are of Type C in accordance with EN 1337, and thus have steel reinforcement plates at the core, and external connection plates on the upper and lower surfaces. The connection plates are vulcanised into the elastomer (a neoprene mix) of the bearing, and thus securely connected. They have threaded holes for easy bolting to the structures above and below, preventing sliding and allowing resistance to horizontal movement to develop. The use of this type of bearing therefore permits some elastic movement, providing a damping effect to the supported system.

Highlights & Facts

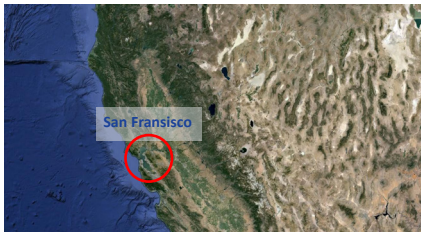
mageba products:

Type:	775 LASTO®BLOCK elastomeric bearings
Features:	Steel fixing plates
Installed:	2012

Structure:

City:	Oakland, California
Country:	USA
Completed:	2014
Type:	Railway viaduct
Length:	5.1 km
Contractor:	Flatiron/Parsons JV

The APM system serves Oakland International Airport in California, USA.



Rigorous testing of the APM system, including bearings, was carried out on a special test track.

View of four LASTO®BLOCK elastomeric bearings at one pier.

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