

Hotel Via Vallejo, Mexico City (Mexico)



Project description

This building will be housing two different Marriot hotels, the Courtyard and the Fairfield. The whole building will be constructed on top of a large new mall called Via Vallejo, located in the centre of Mexico City.

The 10-floor building will have been designed to not only withstand the effects of the severe earthquakes in Mexico City, but also to ensure the serviceability of the hotel during and after the seismic event. To do this, the engineers have chosen to use seismic isolation as a protective strategy.

mageba scope

To improve the seismic response of the building, the engineers in charge of the structural design performed complex dynamic analysis, which confirmed that the best strategy was to seismically isolate the hotel from the large mall. Therefore, it was decided that 18 mageba LASTO®LRB (Lead Rubber Bearings) will be supporting the entire hotel. These devices will isolate the structure, which is rather flexible, from the much stiffer mall's structure.

This strategy has been confirmed after extensive three-dimensional dynamic analysis of the structure seismic response.

Highlights & facts

mageba products:

Type: LASTO®LRB Lead Rubber Bearings (isolators)
Installation: 2014-2015

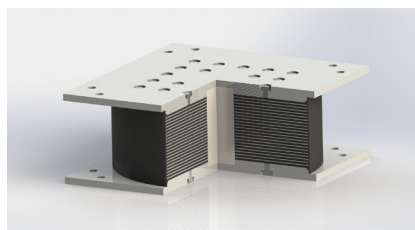
Structure:

City: Mexico City
Country: Mexico
Completed: 2014
Type: Gallegos Consultores
Contractor: SIESA

The structure is located in Mexico City, Mexico



3D-View of one of the LASTO®LRB (seismic isolators) to be installed in the building



Three-dimensional model of the hotel including the mageba LASTO®LRB supporting the hotel

