Mirador Baron Building (Chile)

Project description

The Mirador Baron Building is located in the Chilean city of Valparaíso, a city whose historic quarter is a UNESCO world heritage site.

The port city, on Chile's Pacific coast is in a highly seismic region, therefore protecting the building from earthquakes was a key design and construction principle.

In order to achieve this goal, it was decided to seismically isolate the new building from destructive ground movements by using suitably designed and positioned isolator devices.

mageba scope

To protect the building from destructive ground movements, an isolation system including curved seismic sliders at five locations was proposed.

Five RESTON®SPHERICAL bearings were designed for the applicable vertical load of 1,400 kN and movements of +/-200 mm.

The curvature of the bearing's internal calotte enables them to accommodate rotations as required.

Every bearing was tested prior to installation, in accordance with the AASHTO LRFD specifications.

Highlights & Facts

mageba Products:

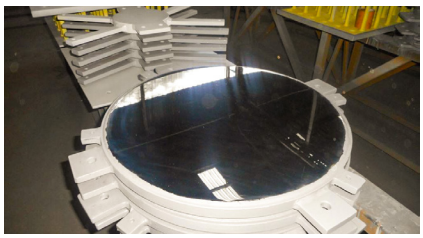
Type:	RESTON®SPHERICAL bearings
Installation:	2018
Features:	Curved surface sliders

Structure:

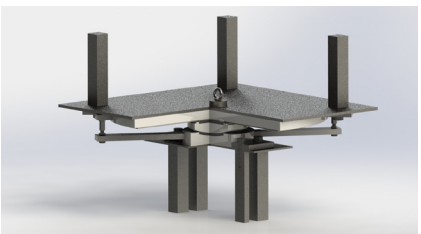
City:	Valparaíso
Country:	Chile
Type:	Residential building
Built:	2018
Owner:	Nueva Costanera Inmobiliaria
Contractor:	SIGRO
Engineer:	Santolaya Ing.

The building is located in Valparaiso, Chile

A sliding plate with mirror finish and other components, ready to be assembled in the factory



A 3D image of the installed bearings, illustrating their design



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