Sky Building, Guayaquil (Ecuador)

Project description

The Sky Building in Guayaquil Ecuador will be part of a commercial complex called Aerocity located near the Guayaquil International Airport.

This 15-floor building consists of 4 parking levels and 11 office floors. Sky Building has been designed with the latest advances in terms of seismic protection by the leading structural engineering company in Ecuador. The structure has been conceived to withstand severe earthquake without suffering damages that could jeopardize the serviceability of the building at any time.

mageba scope

The seismic protection strategy chosen for this building is based on the seismic isolation principle. 64 mageba LASTO®LRB (Lead Rubber Bearings) will be installed on top of the parking levels in order to isolate the severe movement at the ground level, this will provide a comfortable movement on the structure, and most importantly the protection against any seismic damage during the earthquake.

There were considered three different types of seismic isolator for different loading conditions. Additionally, 44 sliders will also contribute with the isolation system.

Highlights & facts

mageba products:

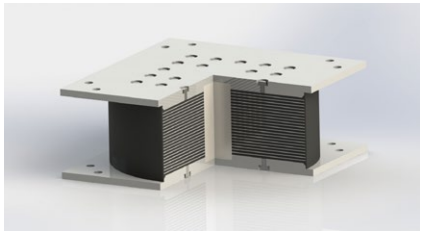
Type:	LASTO®LRB Lead Rubber Bearings (Isolators)
	RESTON®SPHERICAL structural bearings (seismic sliders)
Installation:	2014-2015

Structure:

City:	Guayaquil
Country:	Ecuador
Completed:	2014
Engineer:	Consulsismica
Contractor:	Construdipro S.A.

The building is located in Guayaquil, Ecuador

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



Full-Scale Sample LASTO®LRB prepared to be tested under actual seismic conditions in Italy

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