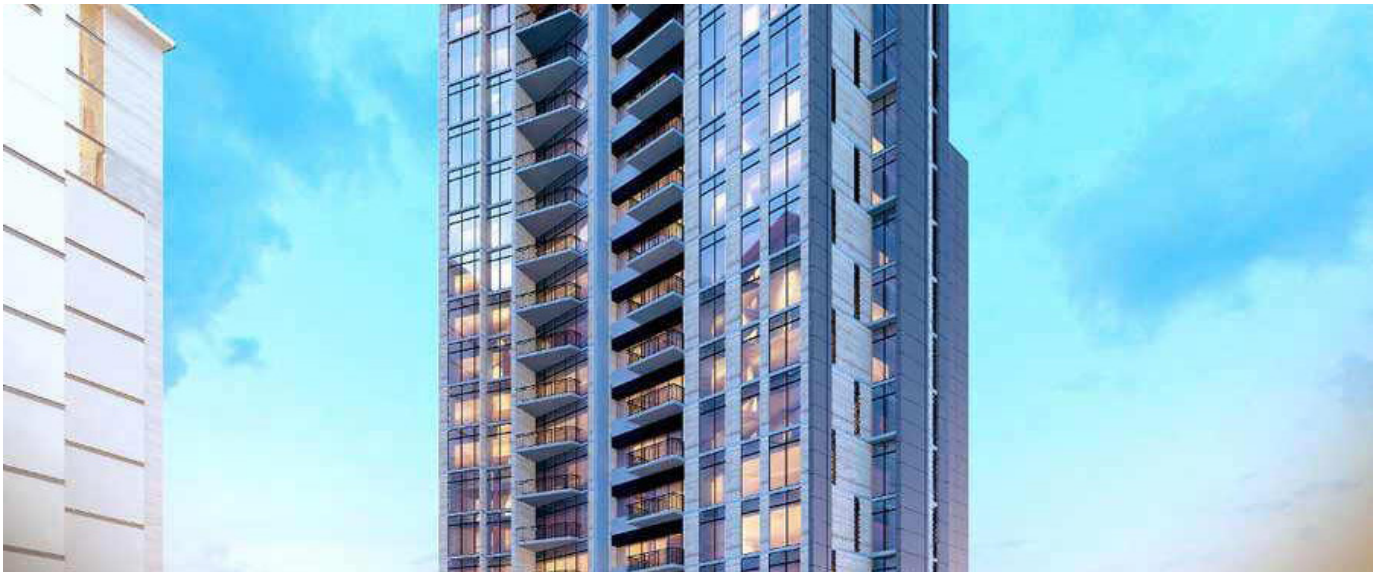
Casa 159 (El Salvador)



Project description

After the earthquakes that occurred in El Salvador in 1986 and 2001, it was necessary to consider the implementation of seismic response control devices for the structures.

Casa 159 building is a housing project located in one of the most exclusive areas of San Salvador consisting a 22-level tower. This new building was designed with lead core elastomeric bearings in combination with sliders as the base isolation system.

mageba scope

Casa 159 is the first building with seismic isolators in the region, it required 4 different designs of isolators with a load capacity of 2,800 kN for the smallest device and up to 30,200 kN for the largest isolator. The sliders are designed to support vertical loads of 900 kN as well. All these devices have a displacement capacity of up to +/– 180 mm.

The seismic protection system implemented in this building ensures safety and protection of the structure by isolating the movements generated during an earthquake, while at the same time ensuring the building to be re-aligned after an earthquake.

Highlights & Facts

mageba products:

Type:	LASTO®LRB Lead Rubber Bearings
	RESTON®SLIDER
Installation:	2020

Structure:

City:	San Salvador
Country:	El Salvador
Type:	Multi-story building
Completed:	2020
Owner:	INVERSIONES BOLIVAR
Contractor:	INVERSIONES BOLIVAR
Engineer:	SISMOCONSULT

Casa 159 is located in San Salvador, El Salvador

Isolators on site, ready to be installed

Installation of a RESTON®SLIDER that will be connected with bolts and washers to the anchor plate

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