

Shougang Hierro Building (Peru)



Project description

SHOUGANG HIERRO PERÚ S.A.A. is a mining company that extracts iron ore from the deposits located on the southern coast of Peru, approximately 530 km from the city of Lima. It is a subsidiary of a large Chinese steel company called the Shougang Group.

The company also operates several plants in the region where the iron is processed, and manages a dock in San Nicolás from where the steel pellets are transported around the world. Its headquarters is located in the city of Lima, where all operation-related administrative works are carried out.

Since the building is situated in a seismically active region, the structure also has to be protected from the devastating effects of potential earthquakes.

mageba scope

To dissipate the destructive energies that may arise during a seismic event, it was decided to use mageba's RESTON®SA shock absorbers, with 28 of these installed on seven floors of the nine-story building. The load capacities of the installed products are 670, 1100 and 1500 kN with a maximum displacement of ± 125 mm.

The products were designed and manufactured at mageba's Chinese subsidiary, and were tested according to ASCE7-22. Prior to the installation, an inspection of the products was carried out by the staff of our Latin American office.

The Shougang Hierro Building is the first project in Peru where shock absorbers have been used to reinforce a structure, and by installing them, the lifespan of the 50-year-old building can be extended by another 50 years.

Highlights & Facts

mageba products:

Type: RESTON®SA shock absorbers
Installation: 2023

Structure:

City: Lima
Country: Peru
Type: Office building
Owner: SHOUGANG HIERRO PERÚ S.A.A.
Contractor: TOP CONSULT
Engineer: Eng. Fidel Copa of Incop Ingenieros

The building is situated in Lima, the capital of Peru



A RESTON®SA damper on site, before installation



RESTON®SA dampers during installation

