

Hongjecheon Bridge (South Korea)



Project description

Hongjecheon Bridge, which was constructed in 1996, is an overpass bridge in Seoul, South Korea. With a total length of 4,937 m, it runs in a west-north direction in the city.

In order to meet the up-to-date construction code of seismic protection and to create a safer traffic flow, the Seoul Facilities Corporation decided to reinforce the Hongjecheon Bridge.

Resulting from the necessary seismic analysis, it was concluded that the structure would need specially designed isolation bearings to withstand the devastating effect of a potential earthquakes that may happen in the region.

mageba scope

In 2023, mageba provided 125 RESTON® PENDULUM bearings of type PD to isolate the bridge's deck from the destructive ground movements that may occur.

All bearings are of "uni-directional", which means that they feature guide bars which restrict their movement to one direction, as they are designed to resist horizontal loads in a normal situation.

To ensure the quality of design and production, and to make sure that the seismic isolators would perform as expected in case of an earthquake, the quality control standards were exceptionally high.

The owner required lab testing of all bearings before installation. In addition, all products have undergone a thorough production control test in the Korea Conformity Laboratories.

Highlights & Facts

mageba products:

Type: RESTON®PENDULUM bearings

Installation: 2023

Structure:

City: Seoul

Country: South Korea

Type: Overpass

Completion: 2023

Length: 4,973 m

Owner: SEOUL FACILITIES CORPORATION

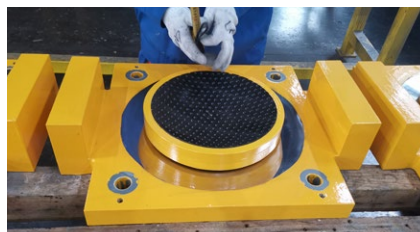
Contractor: HAN SOO INDUSTRIAL
Engineer: DMEC CO., LTD

DONG IL

The project is located in the capital of South Korea, in Seoul



A pendulum type bearing during fabrication



RESTON®PENDULUM bearings are ready to be tested

