

# Unri Bridge (South Korea)



## Project description

The Unri Bridge is located in South Korea's southern part in Pungam-dong, Seo-gu, Jeollanam-do.

The bridge was opened in 2004 to relieve traffic in the Gwangju area and designed as a steel bridge.

It is 134.8 m long and its deck is supported by two piers on PHC pile foundation, where the strength of the concrete is as high as 27 Mpa.

## mageba scope

mageba supplied 16 pieces of RESTON® PENDULUM DUPLO bearings, with vertical load capacities of 4,500 kN (horizontal forces: 287 kN and displacement: 100 mm) and 2,000 kN (horizontal force: 75 kN and displacement: 100 mm) to fortify the bridge against seismic activities.

By applying the calculated effective stiffness of the used RESTON® PENDULUM DUPLO into the structural analysis to accommodate possible seismic movements, the calculation model proved that the bridge can be safely maintained in the event of an earthquake.

## Highlights & facts

### mageba Products:

Type: RESTON® PENDULUM DUPLO bearings

Installation: 2023

### Structure:

City: Pungam-dong, Seo-gu, Jeollanam-do

Country: South Korea

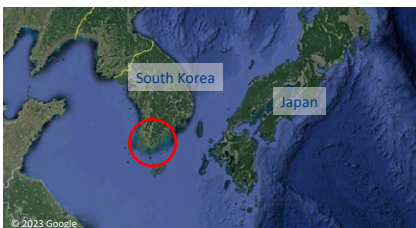
Type: Steel bridge

Length: 135 m

Owner: Gwangju Belt-Highway corp.

Contractor: Gwangju Belt-Highway corp.

The Unri Bridge is located in the southern part of South Korea New in the city of Seo-gu, Gwang-Ju



Installation of a pendulum bearing in the Unri Bridge



A pendulum type bearing after installation

