

Pinkatal Bridge (Austria)



Project description

The Pinkatal Bridge (structure “W92”) carries the Austrian A2 autobahn across the Pinka river valley in eastern Austria, close to the Hungarian border.

During the planning of renovation works to be carried out in 2010, it was determined that shock absorbers should be added. These would connect the bridge’s superstructure to its abutments, improving its ability to withstand unusually large forces.

mageba scope

In 2010, mageba supplied two RESTON®SA shock absorbers to help ensure the safe transfer of forces between the bridge’s deck and its abutments, one at each end. RESTON®SA shock absorbers are frequently used to dissipate the large amounts of energy that result from sudden dynamic loading (e.g. from earthquakes or from the braking of heavy vehicles). In normal conditions, however, they permit free movement between the structure’s parts.

The delivered shock absorbers accommodate movements of +/- 100 mm and were designed according to the equation $F = CV^a$, with $F = 500$ kN, $C = 570$ kNs/m and $a = 0.2$.

Highlights & facts

mageba products:

Type: RESTON®SA shock absorbers
Force: 500 kN
Stroke: +/- 100 mm
Installation: 2010

Structure:

Country: Austria
Type: Highway viaduct
Reference: W92
Carries: A2 autobahn
Crosses: Pinka river valley
Renovated: 2010
Contractor: Swietelsky BaugesmbH, Alpine Bau GmbH, Gebrüder Haider & Co
Owner: ASFINAG

The structure is located in eastern Austria, close to the Hungarian border



A RESTON®SA shock absorber as fabricated, ready for delivery to site



A RESTON®SA shock absorber as installed at one abutment

