

Zygos Bridge (Greece)



Project description

The Zygos Bridge in Cyprus, Limassol carries the main B8 road across the Limnatis river where it enters a large reservoir.

The bridge required a major reconstruction work in 2013. The work involved the complete removal of the bridge deck and of the upper section of the existing piers and abutments, and the construction of a new, wider deck with enhanced load-bearing capacity on the newly-strengthened piers and abutments.

In order to enhance the bridge's ability to survive a strong earthquake, it was considered necessary to seismically isolate the deck from the piers and abutments beneath.

mageba scope

mageba supplied 56 LASTO®LRB lead rubber bearings to support the new deck of the renovated bridge.

In addition to supporting the deck like standard bearings during normal service conditions, these will also isolate the bridge from damaging ground movements during any earthquake that might occur.

The isolators each have a diameter of between 450 mm and 550 mm, and a height of up to 244 mm.

Prior to installation, seismic testing, in accordance with EN 15129, was carried out at the Eucentre facility in Pavia, Italy.

Highlights & facts

mageba products:

Type: LASTO®LRB lead rubber bearings

Testing: Eucentre, Italy

Installation: 2015

Structure:

City: Limassol

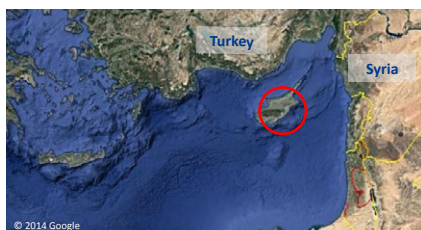
Country: Greece, Cyprus

Type: Concrete highway bridge

Renovated: 2015

Contractor: JV "Cybargo-Iacovou"

The Zygos Bridge is located in southern Cyprus, north of the city of Limassol



Some of the 56 required LASTO®LRB lead rubber bearings, ready for delivery to site



Seismic testing of a LASTO®LRB lead rubber bearing at Eucentre, Pavia, Italy

