

# Timsah Arena, Bursa (Turkey)



## Project description

The city of Bursa, the fourth most populous city in Turkey and formerly the capital of the Ottoman Empire during the fourteenth century, has a new football stadium – the Timsah Arena. The name, meaning Crocodile Arena, is derived from the local football team, Bursaspor, and was a strong influence in the stadium’s design. The structure’s most striking feature, its roof, resembles a crocodile curled around the ground, complete with open mouth. This spectacular roof covers all of the stadium’s 44,000 seats.

## mageba scope

mageba supplied both bearings and seismic isolators to support the stadium’s roof and protect it during an earthquake. RESTON®SPHERICAL bearings of type KA 8.4 (with a vertical load capacity of 8400 kN), and RESTON®PENDULUM “Duplo” seismic isolators of type PD 7.3 (with a vertical capacity of 7300 kN) were supplied. The “Duplo”/PD isolators have two principal sliding surfaces, in contrast to the “Mono”/PM isolators which have only one. Test typing of the isolators was carried out at EUCENTRE, the European Centre for Training and Research in Earthquake Engineering, in Pavia, Italy.

## Highlights & facts

### mageba products:

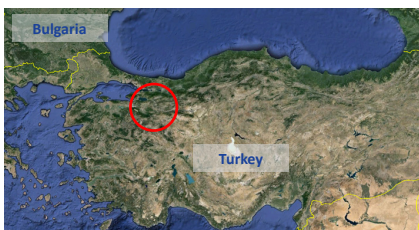
Type: RESTON®SPHERICAL bearings and RESTON®PENDULUM Duplo seismic isolators

Installation: 2013

### Structure:

City: Bursa  
Country: Turkey  
Completed: 2014  
Type: Football stadium  
Capacity: 44,000

The Timsah Arena is located close to the city of Bursa in western Turkey



Type testing of the RESTON®PENDULUM Duplo seismic isolators at EUCENTRE in Pavia, Italy



A RESTON®PENDULUM Duplo seismic isolator, ready for delivery to site (with dust skirt open)

