

# Doha Pedestrian Bridge (Qatar)



## Description of the project

Doha, the capital city of Qatar, is the economic centre of the country. As a result of the increasing corporate and commercial activity, a variety of construction projects are scheduled and are gradually changing the city's skyline. One such project is the new pedestrian bridge over the East Industrial Area road. Since this iconic bridge is an overall aluminium structure, standard bearings made up of construction steel may lead to failure of the but straps of the aluminium connection. In close cooperation with the bridge's engineer it was decided to add a stainless steel adapter. However, this material choice panders to galvanic ionization but mageba supplied the bearings with a fiberglass galvanic isolation between construction steel and stainless steel, a fiberglass isolation plate was added hence assuring corrosion protection.

Doha is the capital city of Qatar and is located on the coast of the Persian Gulf



## mageba scope

mageba supplied eight spherical bearings in accordance with IAN006 (New Qatari Specifications for bridge bearings). Four bearings of type KE ("guided sliding") that allow sliding movements along one horizontal axis, and resist forces in a perpendicular direction were used as well as four bearings of type KF ("fixed") that resist horizontal forces in every direction, allowing no sliding movements.

Moreover, the bearings feature ROBO-SLIDE high-grade sliding material instead of standard PTFE, ensuring far better durability and enabling the size of the bearings to be minimised.

The bridge over the intersection of East Industrial Road & Street 1 in the industrial area of Doha



## Highlights & facts

### mageba products:

Type:	spherical bearings RESTON®SPHERICAL, 4 of type KE and 4 of type KF
Features:	use of high-grade sliding material ROBO®SLIDE
Notable:	both guided and fixed bearings
Installation:	April 2015

### Structure:

Location:	Doha
Completed:	2015
Type:	Pedestrian bridge
Construction:	Aluminium
Length:	80 m
Builder:	SKS

Exploded view of a RESTON®SPHERICAL bearing — guided sliding type, for uniaxial movements

