

Seeb Corniche Road bridges (Oman)



Description of the project

The project involved the construction of six bridges along the Corniche Beach Road at Seeb, Sultanate of Oman. The bridges were built to allow a safe discharge of storm water into the sea while carrying traffic, even during heavy rain and flooding. The bridges all have precast, post-tensioned I-girder decks. The number of spans per bridge varies between four and six. The bridges were designed with spans supported by a combination of elastomeric bearings and shear keys at the fixed end, and by a combination of deformation sliding bearings and horizontal force guided bearings at the free end.

mageba scope

mageba supplied four types of bearing for this project. Vertical loads are carried by a total of 391 LASTO®BLOCK elastomeric bearings (type B, at fixed ends of spans) and 391 LASTO®FLONBLOCK deformation sliding bearings (type Ga, at free ends). Horizontal loads are resisted by a total of 115 RESTON®FORCE shear keys (type SD, with $H_{max} = 800$ kN, at fixed ends) and 115 RESTON®FORCE horizontal force guided bearings (type FE, with $H_{max} = 350$ kN, at the free ends).

Highlights & facts

mageba products:

Type: LASTO®BLOCK bearings, LASTO®FLONBLOCK sliding bearings, RESTON®FORCE shear keys and horizontal force guided bearings

Installation: 2009

Structure:

City: Seeb
Country: Oman
Type: Concrete road bridges

The bridges are located along the Corniche Beach Road at Seeb, Oman



Bearings on a pier before the launching of the precast I-girders to form the deck of one bridge



A typical RESTON®FORCE horizontal force guided bearing – resisting only transverse forces

