

Clanwilliam Dam Bridge (South Africa)



Project description

The historical dam on the Olifants River in the Clanwilliam area of South Africa had been upraised by 15 m in the 1960s. This construction comprised the use of 13 crest gates and pre-stressed cables.

As a result, the neighbouring road is being adapted to the opportunity of this new but higher link over the river. In particular, the realignment of sections of the national road N7, also known as the Trunk Road 11 Section 4, are foreseen. The length of this road section is planned to have 1 km.

The aim was thus to develop a very durable and economical solution for the dam's reconstruction.

mageba scope

In order to provide the customer with the best suitable solution, mageba offered cantilever finger joints of type TENSA®FINGER RSFD-B that cover movements of up to 500 mm. The robust steel edge profiles of this joint type have strong anchor loops for concreting to the main structure, resulting in excellent fatigue resistance. Moreover, the use of high-quality materials ensures a long service-life.

mageba will undergo the Certification process for the cantilever joints of type RSFD according to the "Agrément South Africa".

Highlights & facts

mageba products:

Type: TENSA®FINGER RSFD-B cantilever joints
Installation: 2015

Structure:

Country: South Africa
City: Clanwilliam
Type: Dam bridge
Built: 1935
Height: 43 m
Net storage capacity: 122 million m³/a
Contractor: Haw & Inglis
Designer: AECOM

The dam bridge is located in South Africa over the Olifants River in the Clanwilliam area



The re-construction of the new dam is currently in process and will be finished during 2015



Cross-section of a typical TENSA®FINGER RSFD-B cantilever joint for concrete connection

