

# Replacement of 7 bridges upon the Albert canal

Above the Albert canal in the provinces Limbourg and Antwerp (BE) :

BR07 – Eigenbilzen, BR08 – Zutendaal (N730), BR20 – Stokrooie (N729), BR32 – Kwaadmechelen Zwartehoek (N141), BR36 – Eindhout (N174), BR37 – Geel – Stelen, BR43 – Herentals – Lier (N13)

**Optimisation studies for the submission of tenders, project and execution studies as well as assembly studies, on behalf of the consortium of companies via T Albert**

Owner  
De Vlaamse Waterweg

Cost of the works  
€ 27 M excl. vat

Studies  
2016 - 2020

Execution  
2018 - 2020

OA

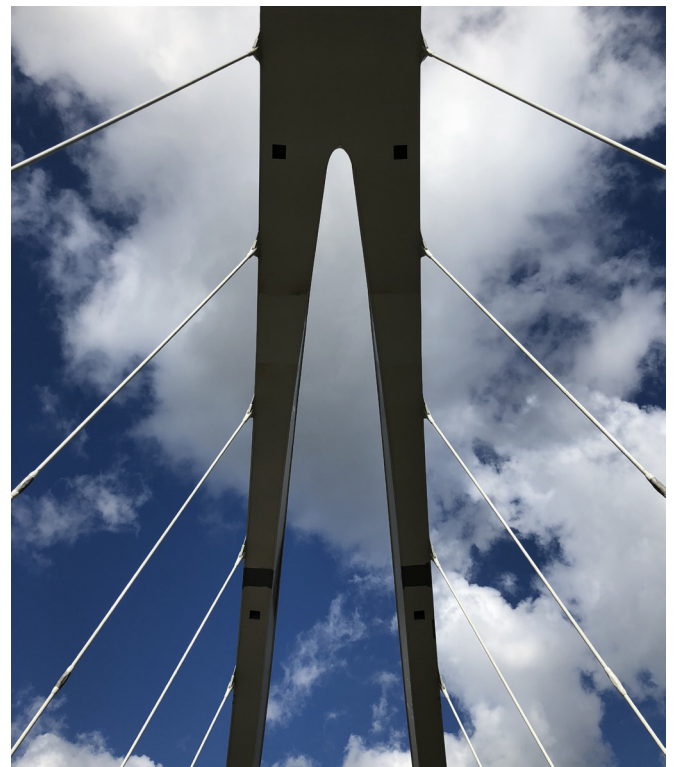


As part of the gauging (height 9.10m) for class Vb of the Albert Canal between Liege and Antwerp, the majority of the bridges must either be raised or replaced. The replacement of seven bridges was awarded under a DBFM contract.

These are bowstring bridges with two lanes of traffic and two bicycle/pedestrian paths on either side, separated by a concrete barrier. The two inclined metal arches merge at the top; the hangers, parallel, are 5 m apart, in the plane of the arches. The deck consists of two 2.4 m high lateral steel box beams, I-shaped steel cross beams approximately 3.7 m apart and a 24 cm thick concrete slab.

The bridges differ by:

- their main span (123 m and 128 m)
- their width (15,60 m and 16,10 m between main girders)
- their assembling method.



Some bridges are assembled in situ over the canal; other bridges are built on the bank and then brought into place with a pontoon. The BR43 (Herentals) bridge is first put into service in temporary position, and then moved with kamags to final position after reconstruction of the abutments.