

Canalbridge of Sart at Houdeng-Aimeries

greisch

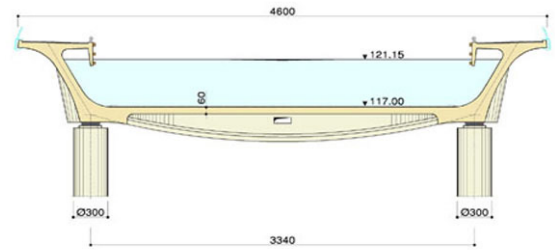
Canal du Centre at Houdeng-Aimeries, city of La Louvière (BE)

Complete mission preliminary, definitive and execution studies projects and supervision during the building

Owner
Ministère wallon de
l'équipement (MET D221)

Cost of the works
€ 29 M excl. vat

Execution
1998 - 2000



This bridge, 498 m long and 46 m wide, carries the Canal du Centre over the Thiriau du Sart valley at Houdeng-Aimeries and over a major road intersection (N55 and N535) at the entrance to La Louvière.

It is a post-tensioned concrete bridge. The cross-section has 2 inclined sidewalls that support the fish-belly transverse girders 4.50 apart, carrying the bottom plate and the loading of 4.20 m of water.

Longitudinal and transverse post-tensioning provides bidirectional compression of the concrete in contact with the wet section.

The bridge is supported on circular piles every 36 m that bear the very large loads on poor quality ground. Special arrangements were needed to manage the anticipated settlement.

The deck has a total weight of 65,000 tons and was progressively launched into place (world record).

Award

Fib award for outstanding structure 2002

Award of the Fib for exceptional works.