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# LOUKKOS RAILWAY VIADUCT

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## Location

Larache, Morocco

## Client

Office National des Chemins de Fer (ONCF)

## Contractor

Société Générale des Travaux du Maroc (SGTM)

## Scope of work

Design, fabrication and installation of steel structures

## Period of execution

2012-2015

## Weight

10.500 tons

## Length

2.256 meters

Part of the broader project arriving to Casablanca, it serves the 350 kilometers long high-speed train line between Tangier and Kenitra, halving the travel time among the main cities of the country. At the completion of the works, this railway line will be one of the longest in the whole Africa.

The Loukkos Railway Viaduct crosses the Loukkos River and has a total length of 2.256 meters, divided in 41 spans with a variable length between 51.6 and 56.5 meters. Single spans were lifted and launched from the ground. From the planimetric point of view, the viaduct has a constant curvature with a radius of 25.000 meters. The structure is composed of two main double-T beams, 3.75 meters high and with an interaxle spacing of 6.3 meters, whose thickness increase in

correspondence of the bearings. On the lower part of the structure, 2 meters wide flat slabs are placed and fixed to the main beams by means of studs and concrete, acting both as a bracing and planking level to inspect the structure.









Ideas  
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