

Pedestrian Footbridge over the River Segre

The construction of this pedestrian footbridge over the River Segre in Balaguer has been solved in both a very economic, structurally efficient way. It consists of a pre-stressed beam of two 46.6m spans with a T-beam cross section 5.00m in width, made up of a central rib of 0.50m in width and very slender 2.25m cantilevers on each side. The cantilevers that constitute the flanges of the T-beam vary their position in height along the span.

At the abutments, these flanges are located in the middle of the web, in the centre of the span they are placed at the upper part and at the pier at the lower part. The height variation between these three points traces a parabolic line. Therefore, from a structural stance, the T-beam cross section is defined optimally in every transversal section.



Spain /2000 Project data

Structural type:
Pre-stressed variable flange T-beam
with two 46.60m spans
Location:
Balaguer. The Province of Lérida
Opening date:
August 2000
Proprietor:
Ayuntamiento de Balaguer
(the Town Council of Lérida)
Construction:
SORIGUE S.A.
Scope of Works:
Construction Project and
Technical Assistance