



Bridges

La Toja Bridge

Structural Type	Pre-cast reinforced concrete structure.
Location	Union between the Isle of La Toja and El Grove. The Province of Pontevedra.
Opening Date	October 2002.
Property	Xunta de Galicia (local government of Galicia).
Construction	Vías y Construcciones.
Professional Services	Reconstruction Project and Technical Assistance.

The new La Toja bridge replaces a bridge which was completed in 1915 and was one of the first reinforced concrete bridges in Spain. Its substitution became inevitable due to increasing problems of durability that had been affecting the structure from the beginning. The new construction maintains the original shapes and proportions, but increases the width of the deck from 6,00 m to 10,50 m. The adopted solution has been designed to insure adequate durability during an approximate period of 85 years, according to calculations. Thus, the concrete elements cast there, in direct contact with the sea, are made of mass concrete, while the reinforced concrete ones have been pre-cast in order to control the conditions of the concrete, the placement of reinforcements and coverings and the execution process.

The construction process was very complex because the new bridge is located in exactly the same place as the old one and there is no other way of reaching the Isle of La Toja. The first step that was taken was the widening so that a part of the old bridge could be kept open to traffic. Afterwards, the traffic was diverted to the new widened part of the bridge; the old bridge was demolished and the remaining transversal section was built in its place.