

Sant Boi High Speed Railway Bridge – Sant Boi, Catalonia, Spain



Type: Railway

Location: Sant Boi, Catalonia, Spain

Completion Date: February 2008

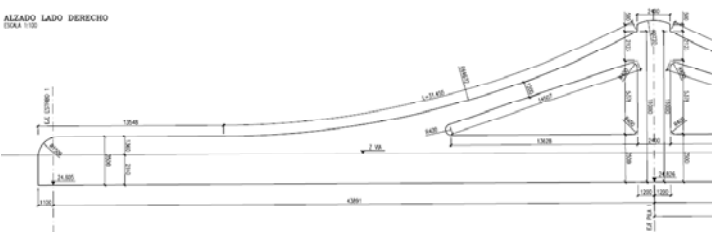
Owner: ADIF

Engineering: Pedelta, SL

Steel Fabricator: ACCIONA

- Overall length of 870 m, consisting of two distinct parts
- First part of the bridge: continuous composite deck with 6 spans of 44 + 4 x 63 + 44 m (340 m)
- Second part : continuous prestressed concrete bridge cast in situ, span by span, using a travelling formwork
- Bridge deck with 17 m width, accommodating 2 ballasted tracks and with a platform width of 14 m
- Structural system for the deck : parallel transverse I-beams (1 m deep and 3 m apart)
- Pinned connection between transverse and longitudinal beams, with a reduced flexural stiffness to avoid fatigue problems at the inner web of the longitudinal beams
- Transverse beams directly support the concrete slab, which is connected with standard welded shear connectors

ALZADO LADO DERECHO
ESCALA 1:100



TABLERO MIXTO
SECCIÓN TIPO
ESCALA 1:75

