DUBROVNIK BRIDGE

Facts

City/Country

Dubrovnik / Croatia

Client

Hrvatske Ceste d.o.o., Zagreb

Architect

WALTER BAU-AG in corporation with Sporschill- Schambeck

Contract Value

€ 26,50 Mio.

Construction Period

3/1998 - 6/2002 (51 months)

Project Description

The Dubrovnik bridge is one of the largest single-pylon, cable-stayed bridges in the world. 52 m above the water, it spans a large cove north-west of the city of Dubrovnik. This water crossing has shortened the distance between Split and Dubrovnik on the coastal road by 12 km.

The bridge is a combination of a 334 m steel bridge with a 147 m box girder bridge, total length 481 m. The largest span is 304 m.

The pylon with the back span structure (2 x 9 and 2 x 10 cables) has an impressing height of 143 m whereas the traffic on the bridge moves 52 m above sea level.

The bridge was erected in the bay of Dubrovnik under difficult geographical conditions. Strong winds and a high earthquake classification imposed severe measures on safety management, quality management and construction methodology. Especially because the non-symmetric structure was in a free cantilevering state while under construction.

14,000 m³ of concrete and approx. 1,200 tons of steel were placed. The area of waterproofing was 5,772 m².

Supply and mounting of the bridge's cables and the prestressing steel by DYWIDAG Systems International GmbH.

