

REFERENCE CASE BRIDGES



Technical Engineering Supervision services to support the construction of a cable-stayed bridge in Brazil

For the construction of a cable-stayed bridge over the Pinheiros River in São Paulo City, Brazil, the city needed a suitably skilled partner with extensive experience in engineering supervision services. After a long technical and price bid process, the municipality selected a consortium formed by TÜV Rheinland Ductor and Falcão Bauer (a leading Brazilian technological center for quality control) to perform the work.

Basic Facts

Client	EMURB - São Paulo City Urbanization Company (managed by the municipality)
Involved companies	<ul style="list-style-type: none">■ Consortium Ductor■ Falcão Bauer
Timeframe	September 2006 – February 2011
Project location	São Paulo City, Brazil
Main services	<ul style="list-style-type: none">■ Technical Supervision of Construction Works - quality, cost and time control■ Technical Control of the Materials and Services

Initial situation and requirements

As part of urban infrastructure improvements by the São Paulo municipality, the Octavio Frias de Oliveira Bridge was constructed over the Pinheiros River in São Paulo City. This bridge was built as one of the main projects in the re-urbanization of the extension between Avenue Faria Lima, Funchal-Haroldo Veloso and the new JK Boulevard, to link the avenues along the Pinheiros River with Av. Roberto Marinho, that will be one of the main exits of the city to the beaches of the Santos Region. To ensure the highest quality of the construction and the safety of the work, the city required an independent project management company to provide operational support for the management, inspection and supervision along with technical verification of works and services.



Solutions, results

Thanks to their extensive knowledge in the field of engineering supervision services for major construction projects, TÜV Rheinland Ductor in association with Falcão Bauer was selected to perform the services.

For the construction of the Octavio Frias de Oliveira Bridge over the Pinheiros River we provided operational support, supervised the quality and costs of the construction and wrote several reports to keep the client informed about the progress of construction. As this bridge is the only one in the world that has two curved roadways supported by a single concrete mast, our experts had to become acquainted with and study this construction method before they could conduct their services. To ensure that the works were carried out according to the standard procedures and technical norms, we supported the client with works supervision, inspection of equipment, technical analysis of the project and topographic surveys. In addition, we helped the client with the technical audit by inspection and tests of materials and services carried out by the builders and carried out spot checks when necessary.

We subsequently provided the company with detailed reports about the works carried out, material costs and testing reports.

Did you know?

The two curved roadways of the Octavio Frias de Oliveira bridge are each about 900 meters long.



Benefits for the client

TÜV Rheinland supported the São Paulo Urbanization Company by providing:

- Extensive support throughout the whole construction of the bridge.
- Highly qualified and experienced experts to conduct the required technical engineering services.
- Expertise in supervision services and technical control of materials and components used in major construction projects.

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About TÜV Rheinland:

Founded 140 years ago, TÜV Rheinland is a global leader in independent inspection services, ensuring quality and safety for people, the environment, and technology in nearly all aspects of life.

We inspect technical equipment, products and services, oversee projects and help to shape processes for companies around the world. Since 2006 we have been a member of the United Nations Global Compact to promote sustainability and combat corruption.

Due to our extensive experience in technical engineering services, we can help and support you in all project phases, ensuring safety and durability of your construction.

We offer you a comprehensive range of services related to construction projects, including works supervision, inspection of equipment, technical control of works, as well as technical analyses and issuing of relevant reports.