

# Uruguay Bridge Structure Design



## Overview

Opened in December 2015, this circular bridge spans the biodiverse Laguna Garzón, connecting the departments of Maldonado and Rocha. Designed by acclaimed architect Rafael Viñoly, the structure is more than a crossing—it's a testament to how engineering can enhance, rather than detract from, the natural environment. The bridge's unusual circular road deck slows traffic and allows drivers, pedestrians, and cyclists to appreciate panoramic views of one of the most beautiful and pristine coastal landscapes in Uruguay. The Garzón Lagoon is one of a series of environmentally sensitive bodies of water along Uruguay's coast. Voice-over artist, writer, and TV director with a B. in Communication Arts and certificates in SEO, Integrated Marketing, Teaching Language Online, and Psychological First Aid. Her articles have been shared by IMDB. This bridge connects Maldonado and Rocha, south of the Laguna Garzón lagoon, near its outlet in the Atlantic Ocean. It is a circular bridge, with a 51.5 m radius, and two straight spans in its access. It is an iconic architectural. Rafael Viñoly has gone full circle — literally.



## Article Content

Category: Bridges in Uruguay

Pages in category "Bridges in Uruguay" The following 8 pages are in this category, out of 8 total. This list may not reflect recent changes.

Leonel Viera Bridge

The Lionel Viera Bridge, also known as the Puente de la Barra and Maldonado Bridge, is a stressed ribbon bridge linking the cities of Punta del Este and La Barra across the Maldonado Creek in

In the Round: Rafael Viñoly Completes a Perfectly Circular Bridge in ...

Rafael Viñoly has gone full circle — literally. The Uruguayan architect returned to his home country with the completion of the Laguna

The Circular Laguna Garzon Bridge in Uruguay

The new ring-shaped bridge across Laguna Garzon in Uruguay's southern coast is such an example. The concrete structure consist of two semi

The Ring-Shaped Laguna Garzon Bridge in Uruguay

Ring-Shaped Laguna Garzon Bridge - The modern-day's technique of building bridges is really awesome because engineers and architects always look for something unique to benefit the

Circular Bridge Design | Circular Arch Bridge

Vehicle traffic rarely uses circular bridges, despite their abundance. Laguna Garzón Bridge combines the beauty of a circular structure with functionality and scenic

Circular Bridge Design | Circular Arch Bridge

This article focuses on the construction of the controversial Circular Bridge known as Laguna Garzon Bridge in Uruguay as well as its crazy engineering.

Why Architects Built This Road Bridge Circular Instead

The Laguna Garzón Bridge, located in Uruguay, is a bridge famous for its unusual circular shape. Most bridges are pretty straight forward, but this

Laguna Garzón Bridge: The Most Subtly Weird Bridge In

At least, that's the case for Laguna Garzón Bridge in Uruguay, an all-round great example of why circular bridges should be more of a thing. The rest

A Case Study of Laguna Garzón Bridge: Bridging Nature and

Where Engineering Meets Ecology In Uruguay's breathtaking coastal landscape, the Laguna Garzón Bridge stands as a revolutionary model of infrastructure that harmonizes human

Why Uruguay Built a Circular Road Bridge | Laguna Garzon Bridge ...

Discover the story behind Uruguay's extraordinary Laguna Garzon Bridge, a circular road bridge designed by renowned architect Rafael Viñoly. This architectural marvel goes beyond connecting two ...

(PDF) Road Bridge across the Uruguay River

Road Bridge across the Uruguay River This paper discusses the construction and testing of the Santo Tome -Sao Borja road bridge over the Uruguay River, focusing on its engineering design features,

INTERNATIONAL BRIDGE ON THE RIVER URUGUAY: FRAY BENTOS (URUGUAY ...

The Fray Bentos - Puerto Unzue Bridge, between Uruguay and Argentina, is one of the most important of its kind built in recent years. It is 3408 M long, not including accesses, and has a main span of 220 M.

Road Bridge across the Uruguay River

Journal article written by Carlos A. Prato, Carlos F. Gerbaudo, Pedro J. Huerta and Marcelo A. Ceballos and published in the journal Structural Engineering International in issue

(PDF) Road Bridge across the Uruguay River

The Santo Tomé - Sao Borja road bridge between Argentina and Brazil over the Uruguay River has two vehicle lanes and two pedestrian walkways. It

Laguna Garzón Bridge

The Laguna Garzón Bridge is a bridge crossing the Laguna Garzón in Uruguay, on the border between the Maldonado and Rocha departments.

(PDF) Structural Design of Bridge

The structural design of bridges is crucial for ensuring their performance and safety throughout their lifespan. This paper discusses various design principles,

Laguna Garzon Bridge | Rafael Viñoly Architects PC | Archello

The Laguna Garzon Bridge will be an essential connection between Rocha and Maldonado counties and will improve communication in this area. It was designed by the renowned Uruguayan architect

THE 5 BEST Uruguay Bridges to Visit (2026)

The bridge was built in 1965 by Viera, who had no experience in engineering or architecture. He was the first to design a bridge like this, a "stressed ribbon bridge," essentially a suspension bridge but with

Discover the Ingenious Design of Uruguay's Circular

Building a bridge over the Laguna Garzon, a sensitive and ecologically rich lagoon, required careful consideration. The bridge's low-profile

(PDF) DESIGN AND ASSESMENT OF THE FIRST

The bridge was built with pine timber from Uruguay, a country which lacks of national standards in structural timber and engineered wood products are

Laguna Garzón Bridge

Rafael Viñoly Architects' design was chosen for its alternative solution to a typical bridge structure—a 202-meter (663-foot) ring of road sits over but does not disturb the fragile ecosystem, slows traffic

Circular reinforced concrete bridge for Uruguay's Atlantic

The bridge over the Garzón lagoon was proposed with the intention to unite the departments of Maldonado and Rocha, located on Uruguay's Atlantic coast. The

A Case Study of Laguna Garzón Bridge: Bridging Nature and

In Uruguay's breathtaking coastal landscape, the Laguna Garzón Bridge stands as a revolutionary model of infrastructure that harmonizes human innovation with environmental stewardship.

Why Uruguay Has a Circular Bridge

The bridge spanning Uruguay's Laguna Garzón is hardly straightforward. In fact, it's a circle. Designed by Rafael Viñoly Architects — the

Libertador General San Martín Bridge

The Libertador General San Martín Bridge (Spanish: Puente Libertador General San Martín) is a cantilever road bridge that crosses the Uruguay River and joins Argentina and Uruguay.

The Weirdest Bridge Design Ever Built

The Laguna Garzón Bridge in Uruguay is a marvel of modern design, connecting the Maldonado and Rocha departments across the picturesque

Laguna Garzón Bridge - CYD Ingenieros

The superstructure consists in 12 precast and prestressed box-girders. Its architectural design is by Rafael Viñoly, a famous Uruguayan architect who is recognized for numerous international works

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