



PROJECT

Water treatment plant

LOCATION

Montevideo, Uruguay

INFORMATION

Area: Civil structures
Market: Hydraulic structures
Year of completion: 2014
Contractor: Berkes
Final client: Gerdau
Our work: Detailed design

DESCRIPTION

The purpose of this Treatment Plant is to optimize the reuse of waste water used during the industrial steel production process, collecting liquids with temperatures of up to 140°F.

SOLUTION

We developed the project for the different structures needed during the industrial process: a decanter, oil separator, thickener, and filters. The characteristics of the contained liquids require guaranteeing complete water tightness, so the design had to assure a strict control of the cracking on concrete structures.

OUR QUALITY TURN

To adequately characterize the terrain, we created a soil-structure interaction model with Plaxis software. This allowed a precise definition of the ballast coefficients, which were used in the development of the models, achieving high reductions in the expected construction cost and guaranteeing the required safety.