

Sanitary Drainage System

The Centenario Industrial Park features a sanitary drainage system meticulously designed to facilitate efficient and safe evacuation, adhering to the highest standards of urban engineering and complying with relevant regulations for sanitary infrastructure in large-scale industrial developments.

Technical Specifications:

- Main pipe: PVC Sewer Class 16.5.
- Pipe diameter: 25 cm (10 inches).
- Network installation: 4,630 linear meters installed, accompanied by pressure testing.
- Installation depth: Ranging from 2.5 to 12 meters, contingent upon the hydraulic and topographic characteristics of the terrain.
- Excavation: Mechanical in dry types A and B materials, encompassing refinement, removal, and lateral placement of the material.
- Fill: Compacted to 80% Proctor density using selected types A and B materials, in 20 cm layers.
- Support template: Sand construction provides continuous and uniform support for the pipe.
- Manhole (PV): Box type and standard reinforced concrete with a compressive strength of $f'c = 250 \text{ kg/cm}^2$, at depths ranging from 2.5 to 6.5 m, including concrete curbs and covers.
- Residential discharges: pipelines featuring 8" diameter pipes with an average length of 32 meters each, inclusive of fittings and specialized components (such as "Japan" type clamps).

Regulations and Technical Guidelines:

- Design and installation in compliance with relevant municipal, state, and federal regulations for sanitary drainage.

Topographic design criteria and hydraulic profiles derived from leveling, layout, and terrain modeling analyses.

Strategic Benefits:

- Elevated hydraulic capacity: facilitates uninterrupted industrial operations without the risk of saturation.
- Structural durability: materials and construction engineered for a lifespan exceeding 50 years.
- Enhanced maintenance: strategically positioned manholes for inspection and cleaning.
- High-specification concealed infrastructure: guarantees uninterrupted operation without visible disruptions or effects on the park's urban landscape.
- Premier healthcare infrastructure from the inaugural day of operation.
- Secure and compliant disposal of wastewater in alignment with environmental regulations.
- Enables the prompt integration of industrial facilities, adhering to the stipulations for operational licenses and environmental certifications.