

FORMWORK FOR LIQUID RETAINING STRUCTURES

Buenos Aires, Argentina

LIQUID RETAINING STRUCTURES FOR TREATMENT PLANTS

Clean water is a highly sought natural resource worldwide. Most industrialized countries have strict methods to protect the environment from contaminated water. This means having the proper infrastructure in place to safely store and treat the water before returning it to the environment or for consumption purposes. Many liquid retaining structures built today are for treatment plants. Leakage of these structures is an environmental concern. Therefore, they need to be built accurately to permit the proper support and operation of the equipment. The Planta de Tratamiento Parque Curtidor in Argentina is no exception.

AN INITIATIVE TO CLEAN UP THE MATANZA BASIN

The Matanza river basin is said to be the most polluted in Latin America. The main river is considered one of the ten most polluted places globally, with very high lead levels. One of the main reasons why it is polluted is that the river receives large amounts of waste from the numerous factories along the river, especially leather tanneries.

CONSTRUCTION OF INDUSTRIAL BUILDING

The Tanning Industrial Park project initiative is constructing new industrial buildings and a state-of-the-art liquid effluent treatment plant to treat industrial wastewater and meet environmental regulations. A liquid effluent treatment plant uses physical, chemical, and biological processes to convert contaminated substances in the wastewater into forms that the ecosystem can assimilate.

TREATMENT PLANT USING FORMWORK/SHUTTERING

Panedile-Esuco-Ecopreneur UTE was awarded the contract to construct the Tanning Industrial Park of Lanús (Planta de Tratamiento Parque Curtidor Landus) and is partnering with EFCO de Argentina for a safe and productive formwork solution. ►

The circular Clarifier Tank walls were formed with the REDI-RADIUS formwork system.



The completed plant will process between 10,463 to 15,695 yd³ (8,000 and 12,000 m³) of industrial liquids per day for the tanneries in the industrial park.

SHORING FOR CONICAL SLAB OF TANK

The Tanning Industrial Park project’s layout calls for the Primary Clarifiers to be located at specific heights above the ground, making it necessary to include a shoring system as part of the EFCO package. The EFCO **E-Z DECK**® system with swivel head flexibility allowed the contractor to shore the tank’s conical slab with the needed load capacity.

FORMWORK FOR CIRCULAR TANK WALLS

The circular Clarifier Tank walls were formed with the **REDI-RADIUS**® formwork system. This formwork for circular tank walls is ideal for continuous curved wall construction. Because of the rigidity of each REDI-RADIUS panel connection, the equipment can be bolted together to create large assemblies. With a minimum number of workers, the construction crew quickly assembled the tank’s complete circumference, placed concrete, cycled the formwork, plugged, and filled tie holes with grout with an incredible rate of productivity.

FORMWORK USED FOR THE CONSTRUCTION OF THE PROCESS CHAMBER

For the Process Chamber, the main structure, the contractor decided to use EFCO’s **SUPER STUD**® with **HAND-E-FORM**®. This ganged solution allowed faster, safer, and more flexible cycles, reducing labor and saving significant time. The chamber walls were of variable sections and 22’ (6.8 m) high. They were completed in only one lift with the help of pour windows. The same system was used to pour the interior walls, which had a walkway at the top that was completed using SUPER STUD anchored to the formwork.



The completed plant will process between 8,000 and 12,000 m³ of industrial liquids per day for the tanneries in the industrial park.



THE MOST SUITABLE TANK FORMWORK SOLUTION

The EFCO HAND-E-FORM system was used for smaller structures, such as flocculators, splitting chambers, a flash mixer, sieves, and compact units. The customer took advantage of the handset formwork’s versatility, flexibility, and simple mechanics.

WHY CHOOSE ANYONE ELSE?

Panedile-Esuco-Ecopreneur UTE is very satisfied with the performance of the equipment and the super service EFCO Engineering and field service provided in this project. EFCO’s engineers and field service teams are trained, experienced specialists who are available to explain precisely how the formwork is used to safely maximize benefits. Time-saving hands-on advice from field supervisors is the EFCO advantage for cost savings and system utilization.

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EFCO EQUIPMENT

HAND-E-FORM, REDI-RADIUS, E-Z DECK, & SUPER STUDS

PANEDILE-ESUCO-ECOPRENEUR UTE TEAM

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