



A TANK BUILT TO LAST 100 YEARS

A Relationship Built to Last a Lifetime

Palmdale, California

A pre-stressed concrete tank built by **DYK Construction Company of El Cajon, California** will last 100 years. DYK has built a strong alliance with EFCO® for the construction of concrete tanks as just a sample of the work demonstrates with this current project in Palmdale, California.

Developing Design Technology

DYK, the industry experts, working with EFCO Engineers provided a solution for the construction of a 1.75 million gallon (6,62 million Liter) digester tank. The contractor is using the **EFCO REDI-RADIUS®** forming system for the construction of the 32'-0" (9,8 m) tall walls on the 98'-0" (29,9 m) diameter tank. DYK's method of construction for this tank was to keep the floor and roof separate from the tank wall with the use of neoprene bearing pads. This construction method provides an unrestrained connection to the walls and reduces bending moments caused by earthquake forces. This allows the floor, wall and roof to act independently while the waterstop at the top and bottom seals ensures the tank remains watertight.

With the sloping floor of the tank, DYK elected to use **EFCO SUPER STUD®** to brace the setup on the inside forms and moved the pour windows to the outside form. DYK also attached construction lumber to the face sheet of the inside form to shape the keyway on the top of the wall. The keyway was designed to support the free-span concrete dome roof and eliminates the need for any interior columns.

Why EFCO?

Sean Valenzuela, DYK Project Manager had this to say about their decision to choose EFCO. "We chose EFCO for the dependable service and readiness to help. EFCO consistently provides us with accurate equipment allocations and on time delivery."

“The ease of using the forms (handling), consistent quality finish and EFCO’s quick turn-around service are the reasons we chose EFCO.”

Rigo Vergaro
Superintendent, DYK

Rigo Vergara..... Superintendent
Sean Valenzuela.....Project Manager
Dan WallaceSafety Manager
Enrique Uribe..... EFCO Territory Manager
Russell Gililland.....EFCO Engineer
Christopher Keathley . EFCO Field Supervisor

Part of the EFCO total system includes experienced field service support and an Assembly, Cycling, and Safety video for construction site personnel.

Note the sloping floor of the tank. By the way, can you find Waldo?



This assembly, 32' high and with an arc of 46', equaling 1,472 sq. ft. is on the fly. Note the bottom edge of the assembly is off the ground.

With the lightweight EFCO SUPER STUD, the crew is able to move the braces along with the panel assembly.