



Installation of a borehole with pipe in sections for reduced space.

Mekorot
Israel | 2020

Working Conditions:

Pressure: 10 bar

Pexgol Pipe:

Pexgol 200 mm (6"), class 24

Application:

Borehole for treated effluent water

Length:

70 m

The Challenge

Mekorot, the national company in charge of water supply in Israel, among other activities, has installed and used Pexgol pipes for water wells for more than 30 years.

The wells were always installed using one of Pexgol's great advantages, which is the possibility of supplying the pipes in coils of long lengths. For this project in particular, the well had to be installed in a central area of the city and therefore there was not enough space to carry out the coil deployment. The pipe needed to transport treated effluent water.

Pexgol Solution

Together with the Engineering Department of Golan Plastic Products, low cost accessories were developed in order to be able to install the pipes in 12 meter lengths and thus occupy as little space as possible on public roads for installation.

The accessories consisted of a stainless steel "insert" and our Double Connector made of galvanized iron coated on the outside with anti-corrosive paint. Although long sections were not supplied, the fact of installing Pexgol pipe guarantees a long lifespan, which could not be achieved if it was done with conventional steel pipes.

The installation was a success and only took one working day, to make the connections the team did not require special tools or previous training.



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Advantages

- **High resistance to wear:**
Pexgol is the preferred solution for abrasive materials transportation. Typically resists three times more than HDPE and twice more than steel.
- **Excellent chemical and corrosion resistance:**
Pexgol pipes can resist a wide range of chemical agents, slurries, toxic and radioactive materials.
- **High temperature resistance:**
Working temperatures can range from $-50^{\circ}\text{C}/-58^{\circ}\text{F}$ up to $110^{\circ}\text{C}/230^{\circ}\text{F}$.
- **Superb internal and external corrosion resistance:**
Our pipes are proven to withstand decades of exposure to corrosive environments, with nonstop performance in some of the world's harshest environments.
- **Long pipe sections:**
Pexgol pipes can be supplied in long coil lengths, reducing number of joints, installation time and risks.
- **Creep and impact resistance:**
Crosslinked Pexgol pipes can withstand high amounts of axial and radial stresses and are highly resistant to impact, fracture and fatigue. Furthermore, Pexgol pipes are completely resistant to cracks even when dragged over sharp rocky terrain and coagulated salt crystals.

