

Why Precast Manholes?

The application of precast manholes and larger round precast pump stations offer an ideal solution to the municipal treatment of waste water.

Precast concrete manholes have several advantages:

- Custom designed for each project requirements.
- Ease of Installation—installed on demand and immediately backfilled.
- Quality- Produced in a controlled environment in Nationally Certified Quality Control facilities.
- Strength- The strength of precast is unsurpassed.
- Buoyancy- specific gravity of 2.40 resists buoyancy forces better than all manhole materials. (fiberglass specific gravity =1.86, HDPE has a specific gravity of 0.97)
- Durability- precast concrete in normal environments can provide a service life in excess of 100 years. For severe conditions, additional design options are available which extend the life of the precast concrete.
- Environmentally Friendly- Besides water, concrete is the most-used material on earth. It's nontoxic and made from natural materials.
- Watertightness- Precast concrete manholes are produced to be watertight (ASTM C 478). Standard watertight sealants, and rubber gaskets joint materials are available, making watertight manholes easy to construct. Watertight rubber “pipe to manhole” connections (boots or compression gaskets) make the complete system “bottle-tight”. Vacuum testing is an easy means to verify watertightness in the plant or the field, as detailed in ASTM C 1244.

