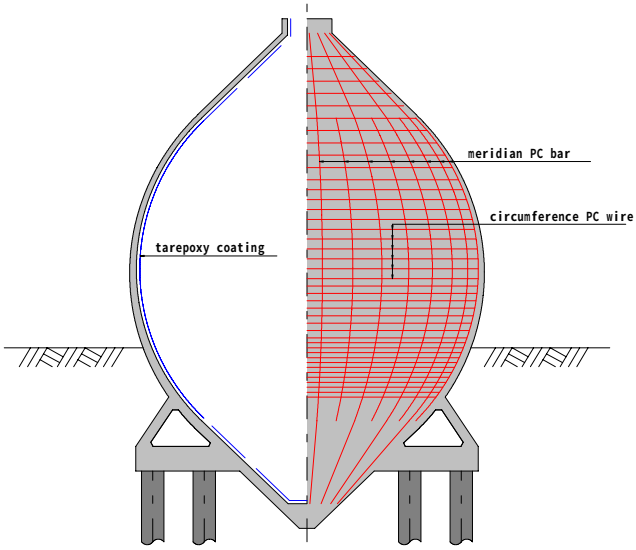
P.S.Mitsubishi Construction Co.,Ltd.

Egg Shaped Digester

DESCRIPTION

In the process of sewage disposal, sewage treatment has been an important issue. Increased efficiency of sewage treatment is enabled by using an egg shape digestion tank.



Advantages

Perfect and efficient churning	Continuous curvilinear shape and small maximum section of tank increases flow velocity of sludge. Perfect mixing state is obtained easily by small churning energy and temperature is also equalized.
No congeries of sand	The slope of a tank facilitates sand collection and extraction.
Facile extraction of scum	In an egg-shaped case, there are few gas-liquid contact at the top of sludge and produces less scum. it becomes easy to take scum out.
Little diffusion heat loss	Since an egg shape has little surface area as compared with an ordinary form, there are few amounts of heat dissipation.
Harmonize with the surrounding environment	Since the structure has curved surface, it harmonizes with the surrounding environment and excels in sight.
Excel at water and air tightness	Post-tensioning in the circumferential direction and the meridian direction by high strength PC steel materials to high quality concrete prevents cracking. Water tightness and air tightness level is high enough to prevent corrosion of steel materials.
Ovoid shape is optimal for PC structure	In an egg shaped sludge digestion tank, axial tensile force prevails and PC structure is optimal solution.

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CONSTRUCTION

Excavating work

Piling work

Mortar shooting

Form work at lower circular cone

PT arrangement at lower circular cone

Bar arrangement at ring foundation

Concrete casting at ring foundation and lower circular cone

Form work at side wall

PT arrangement at side wall

Concrete casting at side wall

Meridian PT tensioning

Circumferential PT tensioning

Appurtenant work

Completion

3000m^2 Standard process

	1	2	3	4	5	6	7	8	9	10	11	12	13
Earth work													
Piling work													
Ring foundation work													
Side wall work													
Crowning pit work													
Inside waterproofing work													
Insulation exterior finish													

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