

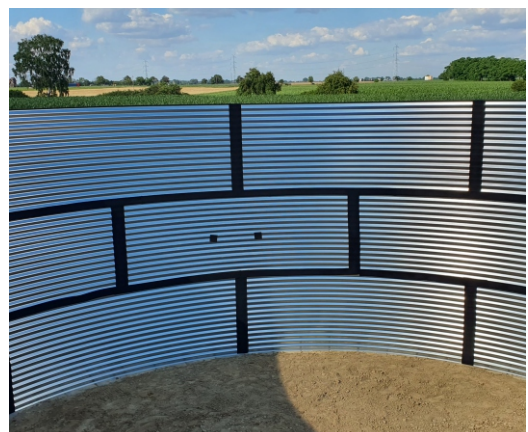
QUALITY

EXPERIENCE

PROFESSIONALISM



WATER RETENTION TANKS



WATER RETENTION TANKS type RBIN

Intended use of the tanks:

- Retention tanks are designed to collect water for watering farm crops, horticultural crops and fruits. They also enable the harvesting of the rainwater from the roofs of buildings and greenhouses as well as from paved squares.
- Thanks to such tanks, it is possible to accumulate large amounts of water from small wells with the use of low-power pumps.
- Before watering, water collected in the tank heats up on its own.
- Tanks are not intended for the storage of drinking water, sewage, liquid manure or slurry. They are not allowed to be used as recreational pools or firefighting tanks.

Tank design:

- The retention tank is a steel cylinder in which a tight plastic membrane is placed. Plastic membrane is the actual water reservoir. The walls of the cylinder are made of corrugated steel, protected against corrosion with a layer of metallurgical zinc.
- The tank can be additionally equipped with 2-inch and 4-inch diameter drainpipes for filling and intake of the water. We also recommend equipping the tank with an additional overflow drainpipe, which allows drainage of excessing water and protects the tank against uncontrolled overflow.
- For long-term storage of water in the tank, you can purchase a protective roof, which covers the tank in order to reduce water evaporation and algae growth and protect the water from contamination. The roof can be flat or conical.
- When installing the tank as a free-standing structure, the tank must be anchored. Anchors are included in standard equipment of the tank. Such anchoring of the tank protects it against strong winds.
- Tanks with a height of 3 and 4 rings are equipped with an arch stiffening the upper edge of the shell (does not apply to tanks with a diameter of 3.5 m).
- The tank structure was designed in accordance with PN-EN 1993-4 Eurocode 3 - Design of steel structures- Part 4-2: Tanks and related standards.

Tank assembly:

- The tank is delivered to the construction site in parts.
- Due to its compact design, a relatively large-volume tank requires a small building area.
- The tank can be mounted outside or inside the building.
- The construction of the tank does not require a concrete foundation plate. The tank is mounted on the base made of concrete building blocks placed on a layer of compacted sand. Details on the construction of the base are described in operating manual of the tanks.
- The tanks can be assembled by the investor due to attached instruction or by the company specialized in assembly services.

Basic technical data of retention tanks type RBIN:

| MODEL | RBIN 042 | RBIN 043 | RBIN 044 | RBIN 062 | RBIN 063 | RBIN 064 | RBIN 072 | RBIN 073 | RBIN 074 | RBIN 092 | RBIN 093 | RBIN 094 | RBIN 112 | RBIN 113 | RBIN 114 |
|----------------------|------------------|------------------|------------------|------------------|------------------|-------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| VOLUME | 22m ³ | 33m ³ | 44m ³ | 59m ³ | 88m ³ | 118m ³ | 80m ³ | 120m ³ | 160m ³ | 132m ³ | 198m ³ | 265m ³ | 235m ³ | 353m ³ | 470m ³ |
| DIAMETER OF THE TANK | 3,5m | | | 5,73m | | | 6,68m | | | 8,59m | | | 11,46m | | |
| DEPTH | 2,33m | 3,47m | 4,61m | 2,33m | 3,47m | 4,61m | 2,33m | 3,47m | 4,61m | 2,33m | 3,47m | 4,61m | 2,33m | 3,47m | 4,61m |

