



BERGSCHENHOEK

CIVIELE TECHNIEK



ROwa tank

Water storage system

General

Bergschenhoek Civiele Techniek (BCT) is your trusted partner in horticultural and civil engineering. BCT develops and manufactures ROwa water tanks for horticulture, humanitarian aid and fish-farming. Over 35 years BCT manufactures waterstorage systems under various brand names and has become one of Europe's major water storage experts. The ROwa tanks are distributed by a global network of partners, dealers and agents.

For every customer

The ROwa tanks are functional, of high quality and durable. The tanks are manufactured for a variety of sectors and customers such as installers, agents, contractors, dealers and governments.

Corporate Responsibility & Sustainability

BCT takes responsibility and reports to her stakeholders. Since 2016 BCT publishes a sustainability report. Sustainability is in our nature. It is a process of initiation, anticipation and innovation. Since 2012 BCT meets the requirements of the CO₂ performance ladder, level 3. Due the use of green wind energy, BCT has reduced her carbon footprint by more than 70%.

Financial

Sustainability is reflected in the financial policy of the family owned company. The policy has ensured that BCT is financially healthy. BCT is a sustainable supplier you can rely on.

Special products

Customization is our speciality. Together with our customers our engineers will design a feasible plan and ideas. Please take a look at our social media channels for inspiring projects.

Innovation

Innovative and sustainable developments are BCT's priorities. For example BCT introduced ZM-coating (Zinc Magnesium) as a corrosion protection for the corrugated steel tanks. Because of this the Zinc consumption has reduced by more than 50%.

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In addition to the information in this brochure you find additional information such as delivery program, applications, CE marking, DoP, etc. on our website.

→ www.gegolfdstaal.com



Introduction

Bergschenhoek Civiele Techniek is manufacturer of ROwa water tanks since 1985. The modular plate system is used worldwide. Due to the modular plate system it is cheap to transport and also easy and fast to assemble and install without cranes or other heavy equipment. BCT's ROwa water tanks are available in heights ranging to 6 meters and in diameters ranging from 2 to over 30 meter. The water tanks are complete with watertight liners and covers to prevent the growth of algae and evaporation.

Applications

These unique tanks have been developed to realize affordable storage solutions worldwide. The concept of modular corrugated steel plates and liner are suitable

for storage of drinking water, irrigation water, rain water, industrial and domestic waste water, bentonite storage, fish farm tanks, fire-fighting tanks, etc.



Modular steel tank

Due to the corrugation the corrugated steel tank panels are extremely strong. The steel thickness is calculated for every ring to obtain optimal material use. Steel qualities S280 and S350 are used for the tank panels. The tank design and strength are based on Euro codes.

Advantages

- Extreme storage capacity in a limited space
- Control over water quality
- Complete modular corrugated sheet system
- Tailor made packaging for container transport
- Easy and quick assembly
- High mechanical strength (steel quality up to S350)
- Durable due to Zinc Magnesium coating
- Extra coating available (for even longer life)
- CE-marking

All the tank panels will be assembled with specially shaped M12 bolts. Due to the low weight of the panels, no lifting equipment is required during installation.

- Wide range of volumes from 2 m³ to more than 2,000 m³;
- Minimal maintenance costs
- Re-usable materials

Others

- Great stability and mechanical strength
- Easy installation with drawings
- Low transport cost per unit

Liners

Under the name Aquatex, BCT offers you a complete range of tank liners that has been compiled specially for the horticulture sector. Because the use can vary, these

tank liners are available in a variety of foil types and in every imaginable size.



Aquatex EX black, thickness 0,6 mm and 1,0 mm

A very high-quality polypropylene foil that is suitable for storing rainwater, clean water or recirculation water. Aquatex EX is ideally suited for uses whereby high requirements are set for temperature, UV-resistance and high chemical resistance.

Aquatex EPDM

EPDM is a synthetic high-tech rubber with great elasticity and durability. It is high resistance to ozone and UV radiation as well. The excellent chemical resistance makes this material perfect for storing of almost all kind of water for horticulture.

Aquatex PVC black, thickness 0,5 mm and 1,0 mm

Suitable for storing rainwater, clean water and chlorinated water up to 0,5 PPM.

Wall and bottom protection sheet 250 gr/m²

Wall and bottom protection sheets consist of a 250 gr/m² protective cloth that is used as a protective layer between steel walls and the lining. This prevents any sharp parts from damaging foil.

Aquatex PVC Extreme, white

This is a white foil that has been specially developed for export to countries with a high exposure to UV. The material is suitable for storing rainwater, clean water and recirculation water. It is also chlorine-resistance to 3 PPM.



Durability and corrosion protection

The steel panels are protected against corrosion by a ZM200 metal coating. ZM200 is an innovative alloy of Zinc and Magnesium of 200 gr/m²/2-sided. The protection of this metal coating corresponds to a 450 gr. Zinc/m²/2-sides coating. BCT was the first producer that implemented ZM coating to its products as a regular standard. The ZM-coating combines high corrosion protection with 50% less zinc.

The M12 bolts, nuts and washers are protected by Zinc-nickel metal coating. Because of the almost polished surface of the coating the nuts fit easily on the screw thread compared to hot dip galvanized screws. The coating of this special corrosion protection is hard and glossy and combines a high quality corrosion protection with smooth tightening of nuts.

Since 2012 BCT has the CO₂ certificate. It means that BCT reduces the CO₂ emissions in every possible way.

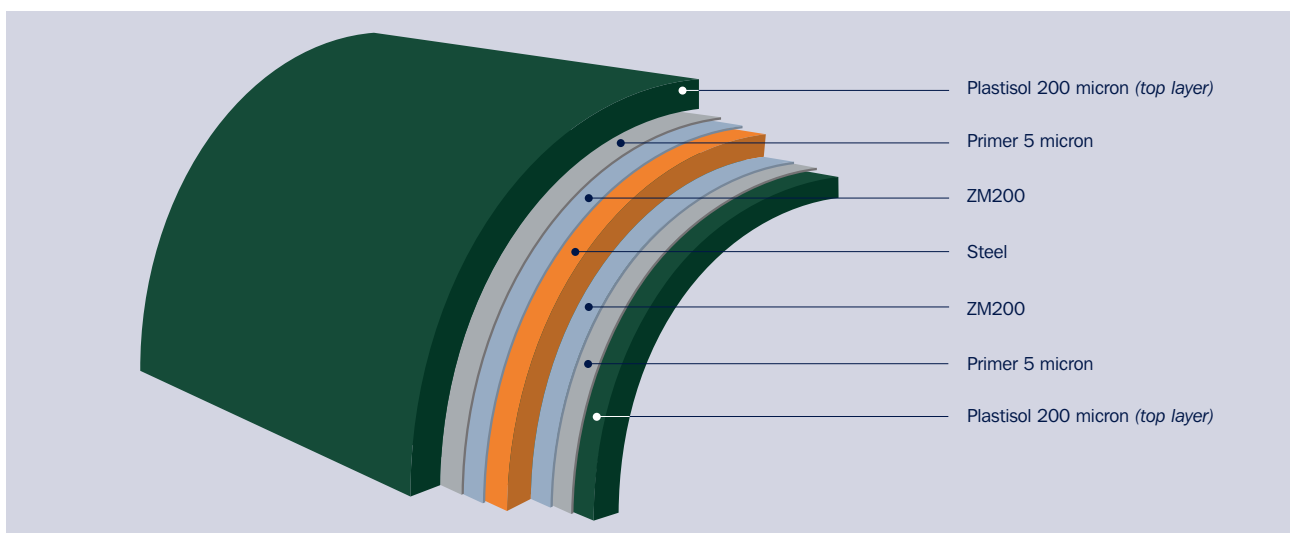
M12 bolts protected by Zinc-nickel



Coating

Plastisol is a robust, flexible and corrosion resistant coating specially developed for demanding environments, e.g. along the coast and environment with high humidity. The 200 micron plastisol with a special primer adhered to the ZM coating. This protective thermoplastic PVC

coatings leads to products with a longer lifespan with a very high resistance to humidity. The coating has a leathergrain pattern, is phthalate-free and is used in aggressive and corrosive environments, such as the agricultural sector.



Certificates

BCT has all required certifications, such as CE-marking, ISO 9001 and VCA**. In addition, BCT will continuously improve quality and processes. That is in DNA of BCT. The ROwa roof is an example of innovation. This low steel dome roof is 20% lighter and 40% cheaper than steel segment roofs.



Tank types

Each application and environment of the tank has its own requirements. Our engineers advise the tank that fits to the specific needs of the customer. For example, we can vary in our range in steel thickness, strength, additional coatings, plate configuration, etc.

The most popular tank types:

- WSA Long Panel (min. 1.0 mm steel thickness). For (drinking) water storage;
- WSW Short Panel for export (less transport volume);
- WSWVC Short Panel for export with additional coating;
- WSWB Short Panel industrial and domestic waste water tanks;
- WS Fish farm tanks;
- WSM For manure and waste water.

ROwa tank dimensions:

Available from 1.34 m diameter, 0.81 m high and 1 m³ capacity, up to approx. 32 m in diameter, 2.39 m high and a volume of 1850 m³.

We are looking forward to participate with you to design and realize the most optimal ROwa tanks for your projects.





Multi-plate corrugated steel pipes and tunnels



SPIROsol steel tanks for underground water storage



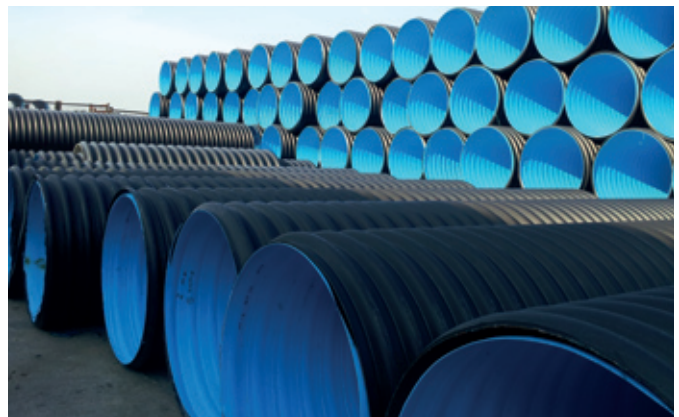
ROwat plastic sheet piling



RObu Weholite PE tanks for underground water storage



RObu PE pipe systems



RObu PE+ steel reinforced structured pipes



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