

Chemical and Process Tanks



We design and manufacture the world's best tanks, collaborating with clients to deliver customised solutions.

CAPABILITY



Our Mission

We strive to deliver pioneering solutions and the safest tanks in the world.

We're achieving this objective by sharing expert knowledge with our customers, and by providing better access to specialist consultants, products and services. And by putting safety first.

Research & Development

Access better thinking. Our R&D department created world-class tanks made from fibre-glass reinforced plastic (FRP) — a material that provides clear benefits compared to traditional materials.

People

Access better people. Our relationships are as strong as our tanks. They're built on shared knowledge, deep consultation, exceptional service and aftercare that extends beyond installation.

Owned Manufacturing

Access better quality. Our design and manufacturing procedures are carefully controlled, and inspections are performed at every stage.

Safety & Compliance

Access better safety. Safety is at the heart of all our designs. We comply with the strictest regulations, including those mandated by the Environmental Protection Agency.

Knowledge

Access better smarts. With three generations of knowledge, 50+ years of experience and over 175 million litres of chemicals and liquids stored, no one knows tanks better than us.

Access Better Knowledge

SERVICES

**FRP Tanks are
Lighter than Steel**

40%

Warranty

50 Years*

*for most applications

Tank Life Expectancy

50 Years*

*for most applications



Industry Pioneers

We're pioneers in this space, bringing unrivalled expertise to create a unique composite solution for each project. Our deep understanding of the challenges of many sectors enables us to manufacture the ideal tanker for any environment.

Design & Consultation

Our in-house team works with you, providing customised advice and design services.

We understand that every project requires a unique solution. Our people work with you to select a tank that improves operations and delivers exceptional results.

Engineering

Our highly experienced engineers are experts in tank design and committed to delivering high-performance solutions.

We ensure your tank adds value, provides a safe environment, and meets all compliance requirements.

Manufacturing

Our state-of-the-art facility allows us to deliver solutions that meet deadlines and exceed expectations.

We've been manufacturing in-house since the 1970s, allowing us to maintain our high quality control standards at each step of the process.

Project Management

We offer complete project management and end-to-end service from design to delivery and aftercare.

Certification & Security

We're a safety-first business. Quality control in-house and onsite has always been our priority.

We hold all the necessary certifications and meet the highest Australian safety and quality standards. Our strict quality management system is accredited to ISO9001:2008.

Installation

We manufacture our tanks in our factory. This means faster installation and fewer health and safety issues on site.

The lightweight tanks are easy to install and only require the external connection of pipework and electrical links. accredited to ISO9001:2008.

Service & Support

Our support doesn't stop at delivery of tankers; we also perform on-site inspections and repairs.

Our qualified team provides you with comprehensive reports and can help with troubleshooting, maintenance and spare parts.

Chemical & Process Tanks



Our fibreglass reinforced (FRP) chemical and process tanks are available in a range of sizes. They're lightweight, corrosion-resistant and easy to install.

Over the past 40 years, our chemical and process tanks have become widely recognised for their reliability, quality workmanship and cost-effectiveness. Our FRP chemical and process tanks can store everything from hazardous chemicals to feed and fertiliser.

Capacities

0.74m³ to 298m³

Applications

- Chemical Storage
- Mixing Tanks
- Process Tanks
- Pressure Tanks
- Elevated Tanks
- Odour Control Systems
- Insulated tanks
- IBC Bunds
- Clarifiers
- Degassing / Aeration Towers
- Scrubbers
- Pipes & Ducting
- Covers

Industries

- Chemical Manufacturing
- Water Treatment
- Sewage Treatment
- Pharmaceutical
- Mining
- Food Processing
- Industrial Waste
- Renewable Energy
- Pulp & Paper
- Municipal Market

Accessories

- Agitators
- Baffles
- Sloping Floors
- Handrails (FRP or Metal)
- Ladders (FRP or Metal)
- Float Type Level Indicator Devices
- Ultrasonic Level Indicator Device
- Site Glass
- Pipe Support Lugs
- Leak Detection Systems

Key Features:

- FRP tanks can safely store dangerous chemicals better than steel, concrete, aluminum and other materials
- We ensure advanced resistance to corrosion and UV exposure, selecting the ideal resin system tailored to each applications specific requirements.
- Chemical storage tanks are designed to atmospheric pressures or vacuum and positive pressure as per your requirements.
- Lightweight and easy to install, and transport
- Multiple configuration options to suit your needs
- Increased design life over other materials and 50 year warranty



The FRP difference with Chemical and Process Tanks



CSG Composites FRP tanks are designed with chop hoop filament wound. The combination of high hoop strength provided by filament winding and the multi directional strength of chopped strand laminate results in highly robust and superior products when compared to concrete, steel or aluminium.

FRP Chemical and Process Tanks



Corrosion, bacterial & chemical resistant – inside resin layer barrier prevents corrosion and bacterial growth, and UV resistant against the sun.



Zero Leaks – non corrosive and is a single piece of equipment with no leaks.



Easy and low cost installation – FRP tanks are constructed as a single piece of equipment, are light weight, and come ready to install.



Customised design – tanks are designed and manufactured to meet any inlet / outlet requirements.



Increased design life over other materials and 50 year warranty



Low maintenance – smooth internal walls reduces the need for constant maintenance and cleaning.

Tanks made from HDPR, concrete, steel or aluminium



Limited long-term prevention to bacterial growth and corrosion.



Susceptible to leaks – porous materials and external leaking from osmosis through the outside of concrete, steel or aluminium tanks



Time consuming and expensive installation – requires onsite assembly and is a lengthy installation process.



Rigid and fixed design – limited customisation options.



Limited warranty due to short design life.



High Maintenance – rough internal walls often require expensive cleaning process.

Chemical Storage Tanks

We select the most appropriate resin system to suit your specific requirements

Our tanks' advanced corrosion resistance has been tried and proven in the toughest conditions. They offer a safer alternative to steel, concrete, and aluminium for handling dangerous chemicals.

Key Features:

- Lightweight and easy to transport and install
- Designed for atmospheric pressure or vacuum and positive pressure
- Used to store chemicals such as sodium hypochlorite, sodium hydroxide, aluminium sulphate, fluorosilicic acid, coagulant and ferric chloride
- Designed and constructed to AS2634-1983, BS4994-1987, BS EN13121-3-2016 or ASME RTP-1 – 2011
- Made to custom order in whatever size, colour or capacity you need



Process Tanks

Our bespoke fibreglass-reinforced plastic (FRP) process tanks are engineered to handle the management and processing of a wide variety of materials and applications. Our product range includes mixing agitator tanks, pressure tanks, pressure vessels, insulated tanks, and chilled / hot water buffer tanks.

Whether for mixing or blending, separating, or temperature control, these versatile tanks are customised to meet your specific needs. Capable of managing chemicals and slurries, they can also be insulated to maintain precise liquid temperatures. They can also withstand certain loads and pressures that are associated with chemical or solution mixing.

They can be used in water treatment, mining, construction, municipal services, food, beverage, and pharmaceutical industries.

Key Features:

- No leaks – the FRP design is anti-corrosive, meaning that it is impervious to chemicals, slurries and vapours.
- Used to store chemicals such as sodium hypochlorite, sodium hydroxide, or aluminium sulphate
- They are strong and designed to handle heavy loads and forces – atmospheric pressures, vacuum or positive pressure
- Designed and constructed to meet the highest safety standards - AS2634-1983, BS4994-1987 and ASME RTP-1 – 2011
- Designed for different applications and processes – made to custom order in whatever, size, capacity, configuration (dome or dish bases), insulation or pressure requirements



Double Walled (self-bunded) Storage Tanks

Our innovative self-bunded tanks combine the superior corrosion resistance of FRP with a unique double-walled design.

This additional wall acts as a containment layer and prevents chemicals from polluting the environment.

Key Features:

- Sizes range from 1,000 L to 24,000 L
- Tanks can be customised for specialised processes such as chemical dosing for water treatment
- Fast turnaround for design, manufacture and installation
- Prevents health and safety issues due to chemical spills
- Cost-effective solution



Pipes & Ducting

Carry your onsite liquids from point to point with CSG Composites FRP piping technology.

Our team can provide you with custom piping systems for sewer pipelines, water transfer, handling recycled or wastewater, piping for liquid storage tanks, or firewater tanks.

Our ducting systems are crucial in maintaining air quality in environments where unpleasant smells are generated, such as industrial plants, wastewater facilities, or food processing plants. Our FRP ducts collect and transport foul smelling air away from the source to our fume scrubbers and aeration towers.



Odour Control Systems

CSG Composites' Odour Control Systems provide reliable, long-lasting solutions for managing and neutralising odours in wastewater facilities, pump stations, and industrial applications.

Stand Pipes and Odour Stacks are used in waste water and air treatment applications. They capture and direct foul air to filtration and scrubbing units for cleaner air quality.

Degassing and Aeration Towers and Fume Scrubbers are designed to remove harmful fumes. Our systems dilute and neutralise odours to improve air quality. With customisable and pressure capacities, they can integrate into new or existing systems.

Odour Control Covers provide a corrosion resistant solution for wastewater and sewerage applications. Designed to fit into existing structure or integrated into full treatment systems, our covers effectively contain odours for better air quality.

Project Profile

Desalination Project



Location

Wonthaggi, Victoria

Industry

Water and desalination

Product Timeline

12 weeks

Product Category

Chemical & Process FRP
Storage Tanks

Design Standard

BS EN 13121

Design, fabrication & delivery of the following FRP Chemical & Process Storage Tanks

- 3 off 54KL Ferric Sulfate Storage Tanks
4500mm diameter x 3700mm wall height
- 2 off 20KL Sodium Hypochlorite Storage
Tank 2500mm diameter x 4650mm wall
height
- 2 off 11KL Coagulant Aid Storage Tank
1850mm diameter x 4300mm wall height
- 2 off 11KL Sodium Bisulphite Storage Tank
1850mm diameter x 4100mm wall height
- 2 off 11KL Antiscalant Storage Tank
1850mm diameter x 4300mm wall height
- 2 off 20KL Fluorosilicic Acid Day Tank
2500mm diameter x 4650mm wall height
- 1 off 4KL Fluorosilicic Acid Day Tank
1500mm diameter x 2300mm wall height
- 1 off 4KL Detergent Storage Tank
1500mm diameter x 2300mm wall height
- 1 off Biocide Storage Tank 1500mm
diameter x 2300mm wall height
- 1 off 11KL Citric/Hydrochloric Acid
Storage Tank 1850mm diameter x
3750mm wall height
- 2 off 18KL Sodium Hypochlorite
Potabilisation Storage Tank
2500mm diameter x 4200mm wall height
- 1 off 11KL Ferric Sulfate Sludge Storage
Tank
1850mm diameter x 4100mm wall height
- 4 off 70KL Caustic Soda Storage Tank
4500mm diameter x 4100mm wall height
- 3 off 94KL CIP Storage Tank 4500mm
diameter x 6000mm wall height

Project Profile

Double Walled Self Bunded Tanks - Waste Management



Scope of work:

Design, manufacture and delivery of FRP Self Bunded Tanks

Location

Erskine Park, NSW

Industry

Waste Management Services

Product Timeline

4 weeks

Product Category

Chemical & Process Tanks

Project and Scope of Work

- 1 off 2KL Sodium Hypochlorite Self Bunded Dosing Tank (c/w Dosing Pump Cabinet)
- 1 off 2KL Caustic Soda Self Bunded Dosing Tank (c/w Dosing Pump Cabinet)
- Duty and Standby Chemical Dosing Pumps
- Delivery, Installation and Commissioning Services



Project Profile

Chemical & Storage Tanks - Water And Pulp



Location

Tumut, NSW

Industry

Paper and Pulp

Product Timeline

6 weeks

Product Category

Chemical & Process FRP
Storage Tanks

Design, fabrication & delivery of the following FRP Chemical & Process Storage Tanks

- 1 off 65KL Sodium Hypochlorite Storage Tanks
- Double-walled Configuration
- Internal Dimensions - 2800mm Dia x 10,700mm Overall Height
- External Dimensions - 3000mm Dia x 10,700mm Overall Height
- Vinyl Ester Throughout with a BPO Corrosion Barrier
- Painted Access Ladder & Handrail
- 1 off 10KL Sodium Hypochlorite Storage Tanks
- Double - walled Configuration
- Designed and Fabricated to BS-EN 13121
- Internal Dimensions - 2400mm Dia x 2,300mm Overall Height
- External Dimensions - 2500mm Dia x 2,300mm Overall Height
- Vinyl Ester Throughout with a BPO Corrosion Barrier

Access Better People



“It’s their knowledge of FRP composites, materials and resins. **It’s the experience they bring to the table.** That’s what makes the difference. And the results are great.”

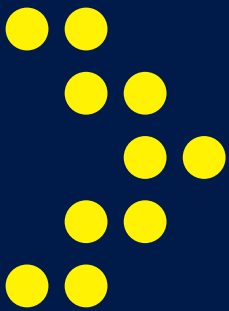
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Scott Morris, Electrical Engineer, Radium



“CSG Composites have a lot of **experience and knowledge about designing and manufacturing large FRP tanks** for the mining industry. This was our first major project with a mining company and CSG Composites helped us out with engineering specifications required by this industry.”

—
Jim Kelly, Managing Director, Arris





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