

Silostore



We design and manufacture world class silos, collaborating with clients to deliver customised solutions.

CAPABILITY



Our Mission

We strive to deliver pioneering solutions and the best silos 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 silos 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 silos. 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 ISO9001:2008, ISO 9001:2015, ISO 45001:2018, and PAS 99:2012

Knowledge

Access better smarts. With three generations of knowledge, 50+ years of experience, no one knows silos better than us.

Access Better Knowledge

SERVICES

FRP Silos are
Lighter than Steel

40%

Warranty

25 Years*

*for most applications

Improved outflow properties
compared to steel

30%



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 silo 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 silo that improves operations and delivers exceptional results.

Engineering

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

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

Australian 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 installation and aftercare.

Our team can organise the foundation and civil work to prepare for installation. We can also supply and install various accessories as required.

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 silos in our factory in Parkes. This means faster installation and fewer health and safety issues on site.

The lightweight silos are easy to install. CSG Composites can provide a precast concrete slab to make installation quicker and easier.

Service & Support

Our support doesn't stop at installation; 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.

Silostore



Silostore is the perfect containment solution for liquids and dry goods.

Capacities

1.6m³ to 250m³

Applications

- Liquid and Dry Fertiliser
- Grain
- Soil
- Cement
- Animal Feed
- Chemicals
- Waste water
- Industrial Applications
- Seeds
- Flour
- Pellets
- All ingredients for food, beverage & pharmaceutical production

Industries

- Agriculture
- Food & Beverage
- Pharmaceutical
- Mining
- Construction
- Renewable Energy
- Circular Economy
- Pulp & Paper
- Water Treatment
- Municipal / councils

Silostore can be used for a wide range of industries and applications. We can customise your silo design with multiple options and accessories to suit your needs. Our silos are fully manufactured in our factory as a single piece, eliminating on-site assembly to save installation time and reduce costs.

Key Features:

- Unlike steel, FRP does not rust or corrode. It's impervious to water, vapours, gases and most chemicals
- The silo's UV resistance ensures a longer product life, and can withstand environmental impacts from rain, hail, and strong winds.
- The lightweight material reduces transportation and installation costs.
- Our FRP resin finish means zero catch-points (where product build-up can occur) and improved product output.
- With its advanced elastic properties, FRP returns to its original shape following impact.
- Easy to clean and requiring low maintenance for optimal uptime.
- 25 year warranty, and 65 year design life.



Agriculture



Silostore is the perfect storage solution for the agriculture industry, as it is designed for dual purpose use to store both dry and liquid products.

Capacities

1.6m³ to 250m³

Available Configurations

- Standard Frames - 600mm Outlet Height
- Raised Frame - 1200mm Outlet Height
- Drive Through Frame - Client Requirements

Agricultural Applications

- Liquid & Dry Fertiliser Storage
- Grain
- Animal Feed
- Chemicals
- Seed Handling
- Pellets

Inclusions & Accessories

- Butterfly & gate valves
- Agitators/Mixers (top and side mount)
- Base manholes
- Internal wash down systems
- Flanges 50mm-400mm
- Vented 740mm top hatch
- 300mm bottom outlet with sliding knife gate
- 60° base cone & 35° roof cone option
- 45° base cone and 35° roof cone option
- Bottom fill inlet options
- Level indicator translucent strip



Silostore serves a wide range of applications, including dry and liquid fertiliser silos, wheat silos, grain silos, animal feed silos, and pellet silos. Unlike steel, our FRP silos have zero condensation, which keeps the inside walls clean and reduces the risk of lump formation.

The superior quality of FRP materials makes our silos near indestructible, corrosion and UV resistant, and 40% lighter than steel. Silostore can also be used for managing wet by products for agricultural suppliers, with our innovative flushing water cleaning technology offering easy maintenance.

Silostore is fully sealed, meaning no pest intrusion and minimal pesticide injections. The glass like resin internal finish means zero catch points, so improved product outflow when storing grains, animals feeds or other agricultural materials.



Industrial



Silostore is versatile enough to be used in a wide range of industrial bulk storage applications, including mining, chemicals, construction, municipal, circular economies and water treatment.

Capacities

1.6m³ to 250m³

Available Configurations

- Standard Frames - 600mm Outlet Height
- Raised Frame - 1200mm Outlet Height
- Drive Through Frame - Client Requirements

Industrial Applications

- Chemical Storage
- Soil / Dirt / Rocks
- Powders
- Industrial Waste
- Water Slurries
- Reusable Materials
- Cement

Industries

- Chemical Manufacturing
- Water Treatment
- Sewage Treatment
- Mining
- Circular Economy
- Industrial Waste
- Renewable Energy
- Pulp & Paper
- Municipal Market

Options & Accessories

- Butterfly & Gate Valves
- Agitators/Mixers (top and side mount)
- Base Manholes
- Internal Wash down Systems
- Flanges 450mm-400mm
- Vented 740mm top hatch
- 300mm bottom outlet with sliding knife gate
- 60° base cone & 35° roof cone option
- 45° base cone and 35° roof cone option
- Bottom fill inlet options
- Level indicator translucent strip

Water treatment: Ideal for storing slurries and supporting water treatment projects.

Mining: Suited for decanting, managing, and the bulk storage of industrial waste, cement, powders, and other essential materials at any stage of the mining process.

Circular Economy: We handle waste from all industries, like fizzy drink production, and storing materials for reuse in other industries.

Construction: Our silos store dirt and cement powders which are crucial for the completion of construction projects. They can also be used to store materials and waste (dirt, soils, rocks) that are extracted during tunnelling projects.

The robust structure of our FRP silos delivers the highest performance quality and resists physical damage, ensuring safe storage at your site or facility.



Food, Beverage & Pharmaceuticals



Silostore can be used for the bulk storage of grains, flours, raw or processed materials, and other essential ingredients used in food, beverage, and pharmaceutical production.

Capacities

1.6m³ to 250m³

Available Configurations

- Standard Frames - 600mm Outlet Height
- Raised Frame - 1200mm Outlet Height
- Drive Through Frame - Client Requirements

Applications

- Grain Storage
- Storage for Raw or Processed Materials
- Flour Storage

Industries

- Food Manufacturing
- Pharmaceutical
- Commercial Bakeries
- Beverage Production

Options & Accessories

- Butterfly & Gate Valves
- Agitators/Mixers (top and side mount)
- Base Manholes
- Internal Wash down Systems
- Flanges 450mm-400mm
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Food producers want to store their products as safely and hygienically as possible to prevent product contamination. By utilising a specially designed resin composite, our fibreglass reinforced plastic (FRP) silos can be customised to meet the relevant Australian food handling standards.

Our composite FRP materials are all FDA approved and our internal quality systems ensure these strict regulations are adhered to during the design, manufacture, and installation process.

This makes Silostore a superior choice over steel silos for bulk containment and storage distribution for the food, beverage and pharmaceutical industries.

Silostore offers effortless installation, and thanks to our advanced composite materials, doesn't corrode and is easy to clean, minimising maintenance downtime in your facility. We can configure Silostore to fit into your existing production lines with customised design options and accessories to suit your needs.



Silostore, Whitechurch Farms: A century of farming meets modern innovation

OVERVIEW

Located in Grenfell, NSW, on a picturesque 1100-hectare property, the Whitechurch family farm with nearly 100 years of history has seamlessly integrated tradition with innovation. Specialising in Merino sheep farming and with crop rotations of wheat, canola and barley, this farm showcases the adaptability and resilience of modern agriculture. Central to their operations is the Silostore Silo from CSG Composites, a fibreglass reinforced plastic (FRP) silo, a game changing investment for their fertiliser silo storage needs.

The Silostore is located on their farm "Booroola" and the farm where the family has been for 6 generations is "Wendouree", where Kim and Jennie's son Ashley lives with his wife Roslyn and their two boys.

CHALLENGE

Challenges with steel silo storage

Kim and Jennie Whitechurch, the owners of Whitechurch Farm, had been using some temporary solutions to store their fertilisers. They were looking to find a reliable, long-lasting solution for storing their liquid and dry fertilisers. They needed something that was durable, didn't rust or corrode, and offered easy maintenance and longevity

"Before adopting Silostore, we used a steel galvanised transportable bin for a silo, which had several issues. It had a short lifespan due to being prone to rust and corrosion", said Kim Whitechurch, the farmer and owner of Whitechurch Farm.

"There are other steel silos or poly type silos we could have used, but they don't have the lifespan of a fibreglass reinforced plastic silo. This Silostore will easily last another 50 years, so its great value for money. 97 years of farming teaches you that it's better to buy quality in the first place – it may cost more but it costs less in the long run", said Kim.

With plans to improve efficiency and storage longevity, Whitechurch Farm sought a more durable and versatile solution.



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"Before adopting Silostore, we used a steel galvanised transportable bin for a silo, which had several issues."
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SOLUTION

Why Fibreglass Reinforced Plastic is a great solution for Silos

After exploring their options, Whitechurch Farms decided to partner with CSG Composites to design, manufacture, and install a 37.5 cubic metre FRP Silostore. It also included an adaptable fitting on the outlet for easy interchange of liquid or granular fertiliser. Its innovative design addresses their key challenges and provides many benefits over steel or aluminium silos.

Anti Corrosive: FRP Silostore offers unmatched resistance to rust and corrosion, ensuring longevity and reliability when storing dry and liquid fertilisers.

Versatility for liquid and dry storage: FRP allows for easy interchangeability for storing both dry and liquid fertilisers, although at Whitechurch Farm it is primarily suited for dry storage.

Low Maintenance: With a smooth, glass like interior, cleaning is minimal, and outflow of the product is seamless.

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“I would definitely recommend Silostore to other agricultural businesses. The FRP silos are built to last and the team at CSG Composites are very experienced with the resins. I’m really happy with the Silostore,” said Kim.
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Easy installation and maintenance

In just two hours, a crane-assisted setup transformed the farm’s storage capabilities, with a quick and easy installation of the Silostore. The CSG Composites team also installed the precast concrete base, reducing the overall installation cost for the customer.

CSG Composite’s responsive support during the initial setup ensured a smooth transition, addressing any minor challenges with professionalism and expertise.

How Silostore has performed at Whitechurch Farms

Since its installation in March 2022, Silostore has delivered outstanding results for Whitechurch Farm.

“Silostore has performed really well since installation. We have made some customisations and the team at CSG Composites have been responsive to helping us out with these,” said Kim.

“The product outflow of the Silostore has been great. The resin finish on the inside is a glass like so nothing sticks to it. It’s really easy to clean, you can just hose it down. Due to the FRP design, it won’t rust or corrode,” said Kim.

Designed to withstand the rigours of farm life, Silostore is expected to outlast other storage alternatives, making it a great investment for the long-term future of Whitechurch Farm.



Project Profile Ixom

Scope of Work

Design, supply, and transport of silos. Our client need a solution to easily decant wastewater from a mining treatment plant so it could be sent for further treatment off site. They choose Silostore due to ease of installation (lightweight), ease of decanting the wastewater and short lead time.

Location

Ulan, NSW

Industry

Industrial - Mining

Product Timeline

8 weeks

Product Category

Silostore

Project and Scope of Work

- 2 x Silostore Silos for processing waste water from a mine water treatment plant
- Design and supply of Silostore Silos
- 2 x 100m³ silo to suit this application



Project Profile Ridley

Scope of Work

Supply pellet silos for production capacity upgrade.

Location

Toowoomba, QLD

Industry

Agriculture - animal nutrition

Product Timeline

6 weeks

Product Category

Silostore

Project and Scope of Work

- 3 x Silostore Silos for pellet storage and processing
- Design and supply of Silostore Silos
- 3 x 13m³ silos
- 60° cone base for optimum flow.



Silostore Sizing Charts

All Applications and Industries

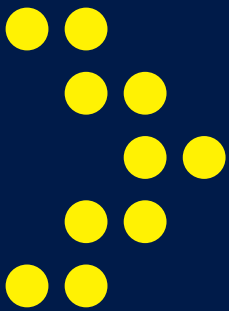
Model No.	Diameter (mm)	Length (mm)	Capacity (m ³)
SS120/1	1200	2950	1.6
SS150/3	1500	3460	3
SS170/4	1700	3650	4.4
SS220/7	2200	4150	7.4
SS250/11	2500	4900	11.7
SS320/22	3200	5550	22.7
SS400/33	4000	5840	33.5
SS400/37	4000	6140	37.2
SS400/50	4000	7150	50
SS400/60	4000	7440	60
SS400/70	4000	8730	70
SS450/80	4500	8840	80
SS450/100	4500	10090	100
SS450/120	4500	11340	120
SS450/150	4500	13240	150
SS450/200	4500	16390	200
SS450/250	4500	19540	250



“The product outflow of the Silostore has been great. The resin finish on the inside is a glass like so nothing sticks to it. It’s really easy to clean, you can just hose it down. **Due to the FRP design, it won’t rust or corrode.**”

“I would definitely recommend Silostore to other agricultural businesses. **The FRP silos are built to last** and the team at CSG Composites are very experienced with the resins. I’m really happy with the Silostore.”

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Kim Whitechurch, Owner, Whitechurch Farms



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