



A Track Record of Excellence

Reliant
solutions

reliant-solutions.co.nz



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About Us

Reliant Solutions delivers high-quality modular bolted storage reservoirs with a focus on precision, performance, and partnership.

We work with the world's leading manufacturers to deliver a comprehensive range of bolted steel tanks, including Glass-Fused to Steel, Fusion Bonded Epoxy, and Stainless Steel options; as well as Glass-Reinforced Plastic (GRP) panel tanks. With design, engineering, and construction managed entirely in-house, we take full ownership of every project, providing you with a seamless, fully integrated solution.

Why choose Reliant Solutions?

01

End-to-End Delivery

From civil foundations to final sign-off, we handle it all – one company, one team, full accountability.

02

On Time, On Budget

We deliver what we promise, every time, guaranteeing timely delivery without compromising quality or cost control.

03

Direct In-House Teams

Our highly skilled construction crews are employed directly – no subcontractors, no temp labour.

04

Seamless Communication

A single point of contact ensures a hassle-free experience and clear, consistent communication.

05

Customised Designs

Tailored storage solutions to meet your specific project needs.

06

Unrivalled Expertise

Decades of experience delivering industry-leading liquid containment solutions across New Zealand and Australia.

Reliant Solutions is the single name you can trust for modular storage reservoirs – one company, one solution, complete certainty. Built on trust and proven results, we deliver leak-free tanks at project completion – no exceptions.

Health and Safety

At Reliant Solutions, safety is at the core of everything we do. From leadership through to our crews on site, we are committed to ensuring every project is delivered with zero harm as the goal.

Proactive Safety Management

Our dedicated health and safety team supports employees, subcontractors, and suppliers to maintain the highest safety standards. Every project includes comprehensive risk assessments, method statements, and personnel certification, providing confidence in a safe and well-managed worksite.

Industry-Leading Training and Compliance

Our crews are Site Safe trained and hold all necessary licences and certifications to operate machinery and work in high-risk environments. Our safety protocols follow industry best practices.

Reliant Solutions is SiteWise Green and Tōtika certified, demonstrating our commitment to top-tier health and safety standards.

These certifications ensure we meet industry best practices, providing clients with confidence in our safe and reliable operations.



Continuous Improvement and Accountability

We foster a positive safety culture, where employees actively identify and report potential risks. Every project includes regular safety audits and incident reporting, with outcomes analysed to drive improvements. Near-miss reporting is encouraged to ensure lessons are learnt and safer practices are implemented.

At Reliant Solutions, safety is more than a policy - it's a responsibility we take seriously.

Our Community

Giving Back to the Community and Environment

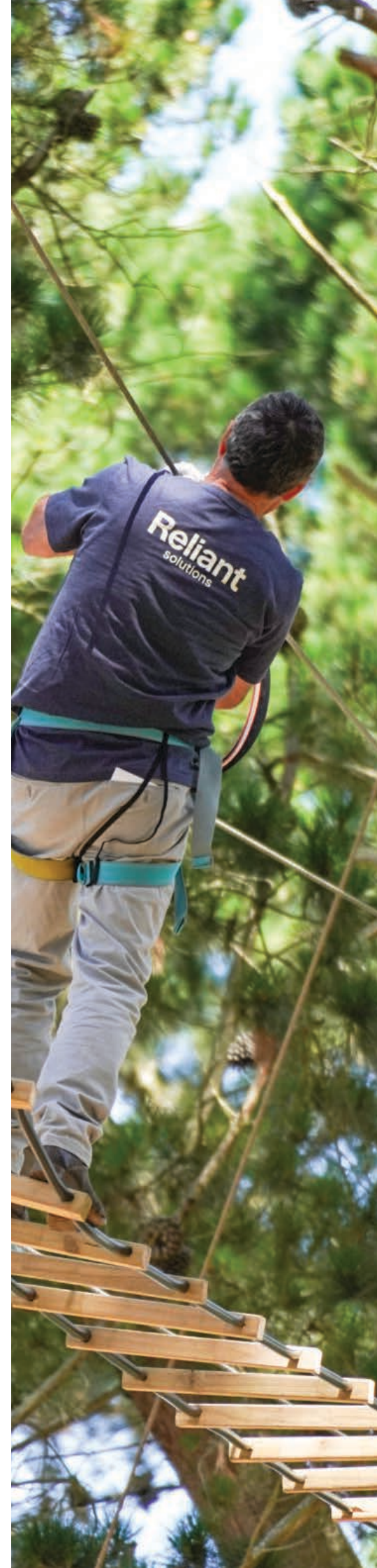
At Reliant Solutions, we believe in making a meaningful impact beyond our projects.

Each year, we proudly contribute a significant portion of our revenue to charitable causes, supporting initiatives that improve lives and create positive change.

We actively support organisations such as Cure Kids, the Cancer Society, Starship Foundation, and the Rapid Relief Team, helping to fund critical healthcare, medical research, and emergency relief efforts. Our commitment to environmental sustainability also extends to supporting the Department of Conservation, ensuring the preservation of New Zealand's natural landscapes for future generations.

As a leader in the water infrastructure industry, we are passionate about water accessibility and proudly contribute to WaterAid, helping to provide clean water, sanitation, and hygiene solutions to communities in need worldwide.

Beyond financial contributions, we prioritise hiring locally, sourcing materials from regional suppliers, and fostering economic growth in the areas we work, ensuring that our impact is both immediate and long-lasting.



Our Process

Our highly skilled teams located around New Zealand are dedicated to delivering high quality design and construction services for bolted steel panel tanks.

A turnkey solution for every project

We collaborate closely with our clients and maintain great client relationships providing superior liquid containment solutions that withstand the test of time.

By entrusting your next liquid storage tank project to us, you can be rest assured that you're partnering with a single company that covers every stage, from the ground up.

Our primary objective is to supply and install high quality storage tank solutions, to achieve this, we have joined forces with the world's leading tank manufacturing companies. These strategic partnerships enable us to offer a comprehensive range of bolted steel tanks, ranging from epoxy coated options to our premium Glass-Fused to Steel tanks.

At Reliant Solutions, our expertise goes beyond constructing tanks.

With our in-house design and engineering teams and our own experienced field personnel, we handle every aspect of design and build process from initial design to civil engineering and foundation work to tank construction and commissioning.

The advantages of our approach are vast. Our end-to-end packages take the burden off client's shoulders. Because we offer a full service, we take full responsibility and control of every facet, reducing interfacing issues, and lowering the project's risk and cost to our clients. This approach coupled with our engineering workshop gives us the ability to customise and provide truly bespoke solutions.

From foundation to the final sign-off, we take care of every detail, guaranteeing a seamless and hassle-free experience. Working with Reliant Solutions, you can be confident in receiving unparalleled expertise, a commitment to quality, and a comprehensive solution for all your liquid storage needs.

Our practical approach and internal capabilities result in high-quality and cost-effective liquid containment solutions.



Benefits of our approach

1

One company, complete accountability, single point of contact

2

Complete control over project timelines

3

Total financial management of your project

4

Bespoke designs



01
Consultation and
Design process



02
Specifications and
Procurement



03
Civil Engineering
and Site Works



04
Tank Fabrication
and Construction



05
Quality Assurance
and Commissioning



06
Client Management
and Maintenance

Our Products

Reliant Solutions offers a comprehensive range of high-quality liquid storage solutions, tailored to meet your specific needs. From the robust construction of our tanks to the innovative design of our roofs, we prioritise durability, efficiency, and environmental responsibility.



Glass-Fused to Steel

The perfect combination of corrosion resistance and strength. With our Glass-Fused to Steel bolted steel panel tanks you get the highest engineered quality, best service, longest product life and greatest value available.

Our glass coatings are designed to produce an extremely strong chemical bond to the steel during the fusion process.

Unlike painted surfaces, Glass-Fused to Steel coatings are both chemically fused to and physically combined with the steel substrate resulting in an unmatched, tough durable bond.

Benefits

- › Inert Silica Glass: Abrasion and UV stable. Applied on both interior and exterior surfaces
- › Lifetime factory applied coating, no reapplication required
- › High corrosion resistance of glass combined with the strength and flexibility of steel
- › Chemical bond provides resistance against damage, delamination and corrosion
- › 50 year design life. 80 year service life, and beyond
- › Independently certified and exceeds NZS/AS standards



Fusion Bonded Epoxy

The most versatile epoxy coating in the liquid storage tank market. Coatings are the first line of defence in protecting the integrity of your liquid storage assets.

Our Fusion Bonded Epoxy steel tanks using the epoxy coating process delivers outstanding performance and is the industry standard for epoxy durability, its corrosion resistance and its resistance to UV breakdown and abrasion.

The Fusion Bonded Epoxy product, FUSION® V1100 is the most versatile coating for modular, bolted containment systems.

Benefits

- › Eliminates the weather factors incurred when applying a coating in the field after constructing a welded tank. With factory-applied coatings, there is no waiting for the weather to be within specific parameters to properly cure the coating.
- › Each of our panels is subject to a through factory inspection and only 100% defect free panels are released to the market.
- › Completion of the the tank can be performed in as much as 1/3 the time as alternative materials and methods. On-site delays due to weather are greatly eliminated, service can commence earlier and ROI begins sooner.



Stainless Steel

Reliant Solutions provides high-quality stainless steel tanks designed for durability, corrosion resistance, and versatility across various industries. Stainless steel is renowned for its strength and long-lasting performance, making it ideal for reliable liquid storage.

We offer tanks in three premium stainless steel grades:

STAINLESS STEEL GRADE 316

Superior resistance to acids and chlorides makes Grade 316 perfect for harsh environments, including marine, chemical, and food processing applications. Its hygienic, non-porous surface ensures safe storage.

STAINLESS STEEL GRADE 304

A versatile, cost-effective option for general storage, offering good corrosion resistance and easy fabrication. Suitable for potable water, wastewater, and food-grade applications.

DUPLEX STAINLESS STEEL

Duplex offers a high-strength, corrosion-resistant solution by combining the properties of ferritic and austenitic stainless steels. Available in various grades, it provides enhanced durability and stress corrosion resistance, making it suitable for a wide range of applications, including water treatment, chemical storage, marine, and industrial environments.

Applications

- › **Water and Wastewater**
Suitable for drinking water and industrial storage
- › **Chemical Processing**
Resistant to acids, alkalis, and solvents
- › **Food and Beverage**
Hygienic, contamination-free storage
- › **Industrial and Agriculture**
Reliable for processing, irrigation, and fire protection



Glass-Reinforced Plastic Panel Tanks

Reliant Solutions' Glass-Reinforced Plastic (GRP) Panel Tanks provide a high-quality, modular storage solution for commercial, municipal, and industrial applications.

Designed for tight spaces and high-performance liquid containment, these tanks are ideal for fire water, potable water, and wastewater storage.

Built using hot press moulding technology, our GRP tanks feature a smooth, reinforced surface that prevents algae growth and eliminates corrosion.

The bolted panel construction ensures leak-proof performance without the need for internal liners. With customisable shapes and sizes, ranging from 1m³ to 12,500m³, our GRP tanks maximise space efficiency while maintaining structural integrity and long-term durability.

Benefits:

- › **Leak-Proof Design**
Convex base panels enhance sealing under water pressure.
- › **Complete Drainage**
The unique concave drain panel allows easy maintenance.
- › **Hygienic and Corrosion-Free**
No metal components contact stored water.
- › **Weather-Resistant and Insulated Options**
Panels available for extreme temperatures.
- › **Modular and Expandable**
Scalable for future storage needs.
- › **Sealed and Light-Proof**
Prevents algae growth, dust, and contamination.



Liner Tanks

Our high-quality, cost-effective, and durable liner tanks are an excellent solution for many applications, including firewater, potable water, and wastewater, meeting all your liquid storage needs.

Tanks can be designed with open tops or fully enclosed trough deck roofs, constructed from galvanised steel, stainless steel, or aluminium to suit the corrosive nature of the vapour space.

Available specifications include:

› **Wall Sheet Material**

Options include Galvabond, hot-dip galvanised steel, or stainless steel.

› **Internal Membrane Liner:**

Choices include PVC, reinforced PVC (RPVC), Aeon® XR3® and XR5®, Polyethylene (PE), or reinforced polyethylene (RPE).

› **Roof Structure and Sheetting**

Standard galvanised roof structure with zincalume sheetting or a long-lasting ZAM structure with ultra sheetting. Aluminium sheetting is also available, and all roofs comply with AS/NZS1170 standards.

› **Tank Suction Outlets**

Equipped with vortex plates and grilles to prevent liner damage from outlet flow.

› **Access and Safety Features**

Ladders or stairways designed to AS1657 standards are included, with optional side entry manholes available.

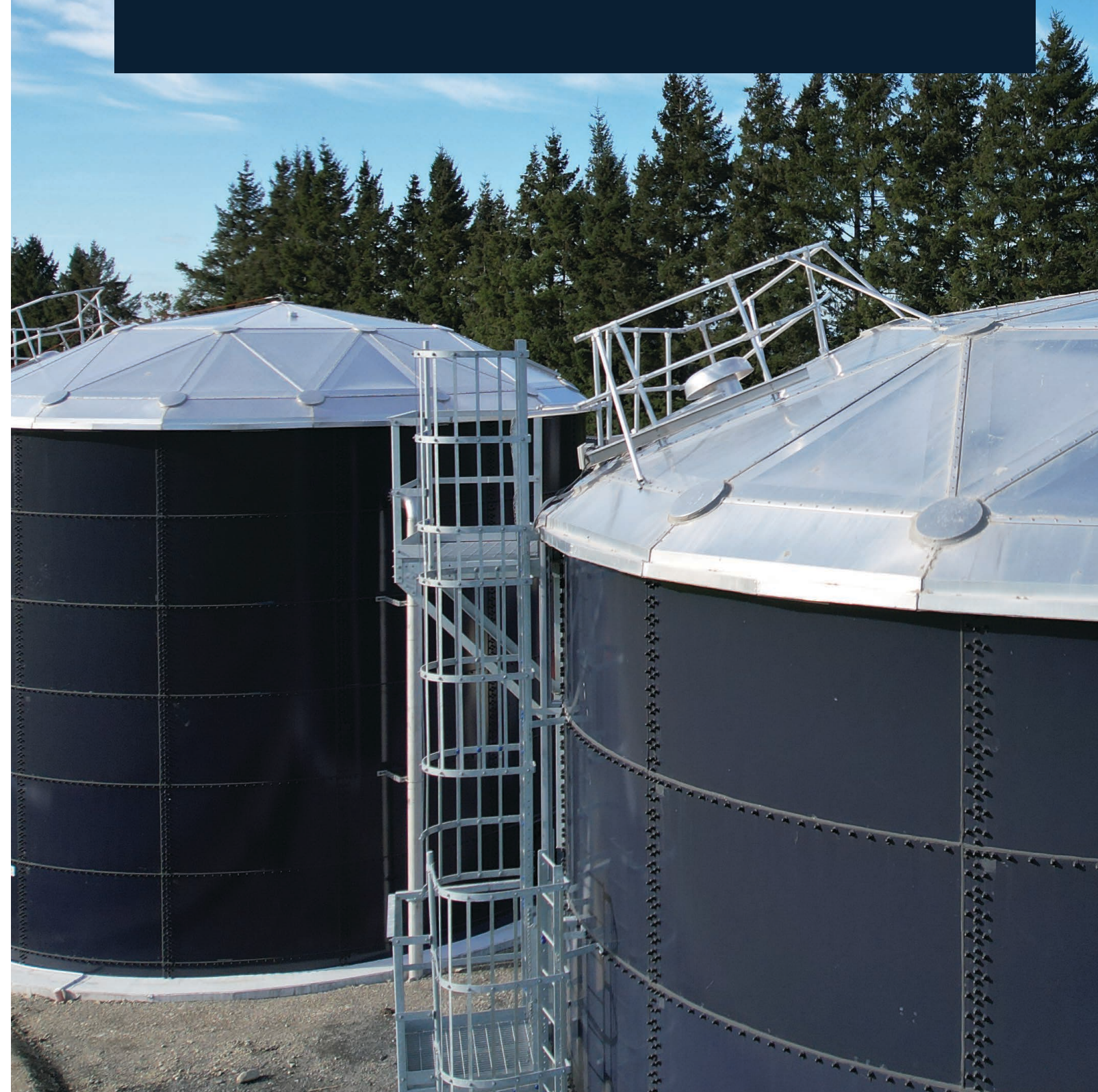
› **Environmental and Aesthetic**

We offer powder-coated finishes for external panels and custom architectural facades upon request.



Roof and Covers

We offer durable roof and dome options to protect our storage tanks from contamination, evaporation, and the elements. Designed for a range of applications, our high-quality solutions ensure reliability, longevity, and compliance with industry standards.





Tapered Beam Roof

The Tapered Beam Roof is a durable, corrosion-resistant solution featuring Glass-Fused to Steel or Fusion Bonded Epoxy Steel panels, supported by a galvanised substructure. Fully sealed and designed for low-pressure use, it provides complete protection for stored contents. With a low-profile pitch of around 12 degrees, it can be customised for higher loads when needed.

Suitable for drinking water storage, farm biogas, and industrial use, these roofs offer superior corrosion resistance. Stainless steel infill panels are also available.

Our Tapered Beam Roof accommodates mixers, suits pressurised structures and provides odour control.

Benefits:

- › **Corrosion Resistant**
Long-lasting protection
- › **Stainless Steel Infill Panels Available**
- › **Self-Supporting Structure**
Maximises storage capacity
- › **Odour Control**
Effective containment
- › **Pressurised Structure Compatible**
Safe and reliable



Geodesic Dome

The Aluminium Geodesic Dome Roof is an innovative modular self-supporting structure which perfectly complements any containment structure. Our Geodesic Domes utilise a intelligent sealing system design to allow rapid construction which functions reliably in all weather conditions. The domes are constructed from standard aluminium, with the option for additional painting.



Trough Deck Roof

The Trough Deck Roof is both a versatile and economical roof solution. This roof type, made from profiled mill finish aluminium or steel coated roof panels supported by a galvanised or an epoxy coated steel support structure, is suitable across a wide range of applications. Self-supporting Trough Deck Roof structures are also available.



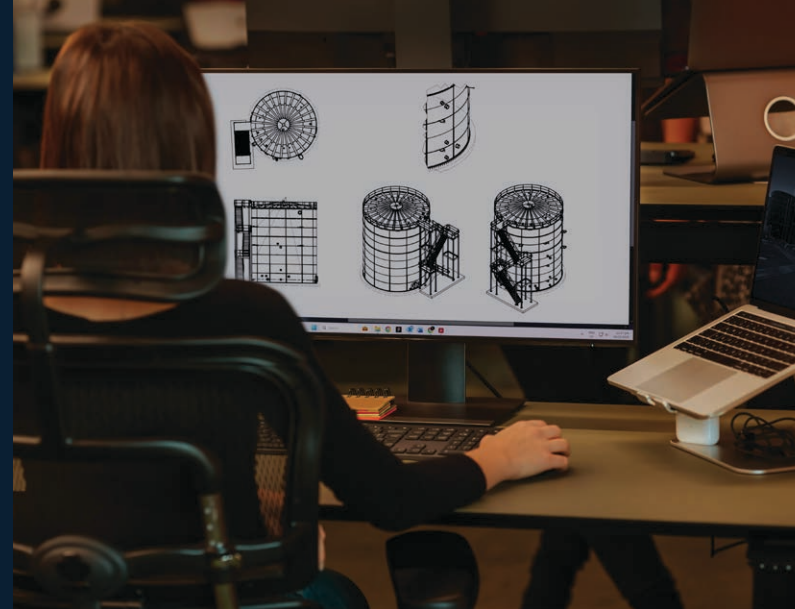
Double Membrane

Double Membrane Roofs are the well-established solution for use in anaerobic-digestion processes. Double Membrane roofs offer a low cost option for a sealed, gas tight roof. The outer membrane remains permanently inflated while the inner membrane inflates and deflates in proportion to the biogas production therefore making them a suitable option for pressurised applications.



Our Services

Reliant Solutions delivers exceptional liquid storage solutions. Our expertise in design, construction, and maintenance ensures optimal performance and longevity of your next storage tank project.



Design and Fabrication

Full bespoke solutions with our inhouse design and fabrication capabilities.

Reliant Solutions' in-house sheetmetal and fabrication workshop offers clients the ability to custom design tank solutions. It is another aspect of our ability to deliver every aspect of a project from from concept design to commissioning.

Using the latest 3D modelling software and analytical structural design tools including drawing on many years of research and design activities that is constantly being added to, refined and incorporated into our design models, optimal storage solutions are delivered everytime.



Civil and Foundations

We work off a firm foundation

Being so much more than just tank installers, Reliant Solutions also offers professional foundation installation services in the field. From soil borings, piling to detailed excavation, and concrete placing, we provide the highest quality foundation services. When you are looking for a complete turnkey service, turn to Reliant Solutions.

Reliant Solutions design and engineering team is an authority in all types of storage tank foundations. We offer a variety of foundation designs for different applications, soil conditions and geographical locations.

Foundation loading information is generated during the project approval drawing stages. Considering the foundation loads generated, Reliant Solutions can provide you with a quote for foundation design based on a given set of conservative parameters.



Installation and Construction

When it comes to safety, we've got both feet on the ground

At Reliant Solutions, quality and safety are second nature. All our components are manufactured in the factory and are easily assembled – this means we can install our tanks in various types of weather conditions where fieldwelded steel or concrete tanks could not be.

Our bolted steel panel tanks are assembled from the top down by our professional building crews using our specialised jacking systems that safely and progressively elevate the structure without the cost of cranes, large staging areas or extensive scaffolding.

This jacking process reduces cost and increases time efficiency while receiving the highest industry ratings for quality control and safety in the field. Building crews can keep their boots safely on the ground.

This construction method enables rapid, logical progress for timely completion.

With more than 80 specialist jacks at our disposal, we've got your next project covered.

Benefits:

- › No working at heights
- › Site work savings
- › Quick erection
- › Fast turn around
- › Smaller footprint



Our Commitment to Quality

Reliant Solutions is committed to delivering high-quality tanks, built to last and backed by our expertise and support. Get in touch to learn more about our commitment to quality.

✓ Warranty

We are committed to delivering high-quality products because we believe every client deserves peace of mind and confidence in their investment.

That's why we offer an extended warranty of up to 10 years.

From fabrication to final commissioning, we prioritize quality and our focus is on delivering an exceptional asset to our clients. This commitment allows us to offer extended warranties beyond industry standards, providing clear peace of mind to every end user.

We partner with our clients to create assets that stand the test of time, and the quality of Reliant Solutions speaks for itself.

For more information on this offering, please contact the Reliant Solutions team.

✓ Built to Last

Reliant Solutions is dedicated to delivering top-quality tanks by adhering to strict construction guidelines and rigorous quality control procedures.

We ensure every aspect of the project is closely monitored, with detailed documentation compiled in a materials data record upon project completion.

- › All steel used in tank walls comes with certified documentation verifying raw material conformity.
- › Coatings undergo rigorous testing to meet ISO 28706-1:2008 standards, with any defective sheets immediately rejected.
- › All tank panels are subjected to high-voltage holiday testing at the factory before shipping.
- › Reinforcing steel meets AS/NZ standards, and concrete undergoes compression tests during foundation pouring.

✓ Tank Inspection Service

Reliant Solutions offers advanced drone and remotely operated vehicle (ROV) inspections for storage tanks.

Our underwater ROV captures high-resolution images and 4K video footage of submerged surfaces, allowing for a detailed evaluation of coating integrity, corrosion, and structural concerns. External tank inspections can be carried out simultaneously using drone technology, eliminating the need for working at height or confined space entry.

Applications

Whether it's potable water containment for town water supply, effluent storage for a farm or sludge tank for a wastewater treatment plant, Reliant Solutions has the storage solutions for your development.



Wastewater Treatment

Our Glass-Fused to Steel tanks have a very high resistance to chemical corrosion and have excellent abrasion resistance properties, making them a suitable consideration in your wastewater treatment process.

Our tanks have been successfully used for an extensive range of wastewater treatment applications.

Applications

- › Sludge mixing tanks
- › Sludge treatment tanks
- › Equalisation tanks
- › Filter tanks
- › Trickling filter tanks
- › Settlement tanks
- › Grey water tanks
- › Storm water tanks
- › Clarifiers
- › Aeration tanks
- › Membrane batch reactors (MBR Tanks)
- › Sequential batch reactors (SBR Tanks)
- › Thickener tanks
- › Sludge holding tanks



Water

Our tanks can be relied upon to provide safe, clean and reliable water storage.

Offering a wide range of project-specific options including Glass-Fused to Steel, Fusion Bonded Epoxy and Glass-Reinforced Plastic (GRP) tanks, Reliant Solutions brings an unrivalled level of experience to looking after our most precious asset.

- › Potable water
- › Borehole water
- › Desalination tanks
- › Permeate tanks
- › Settling tanks
- › Process water
- › Demineralised water
- › Aeration tanks
- › Chlorine contact tanks
- › Dosing tanks
- › Filtration tanks
- › Firewater



Anaerobic Digestion

In the industrial sector using anaerobic digestion to create biogas is increasingly recognised as a valuable method to utilise waste streams to create renewable energy.

Almost any organic waste can be digested, opportunities have developed to utilise food processing waste, domestic and restaurant waste. Increasingly, combinations of waste streams are being processed along with co-digestion of municipal sludge effluent and farm waste, such as animal slurry, to generate “green” renewable energy.

Our modular design allows the flexibility to accommodate various aspect ratios, process pressures and temperatures to suit a variety of anaerobic digestion processes, designs and applications as specified by your process designer.



Case studies

Reliant Solutions has a proven track record of delivering key projects all over Oceania. We have successfully executed a wide range of projects across a diverse range of locations, showcasing our adaptability and competence in managing varying levels of complexity.

Waiaroha, New Zealand

Future-Proofing Water Supply

Reliant Solutions was thrilled to collaborate with Hastings District Council on the Waiaroha water treatment and storage project. This initiative goes beyond infrastructure, creating a vibrant urban asset that includes a treatment facility and education center, all designed to secure Hastings’ drinking water supply for the future. The reservoirs are thoughtfully integrated into the city’s landscape, reflecting the water’s journey from mountains to sea, and enhancing the character of Hastings’ city center.

Working alongside Council and its Māori partners, Reliant Solutions ensured that the architectural design complemented Hastings’ urban environment. The dark-coloured tanks feature vertical fin designs representing the flows of local rivers, while additional elements like digital screens and artwork tell the story of water. Waiaroha will serve as a place where the community can learn about water’s lifecycle, highlighting the importance of this precious resource from its source to residents’ taps, and reinforcing the Council’s commitment to sustainability and community wellbeing.

| | |
|---------------------|------------------|
| Application | No. of bolts |
| Potable Water | 25,070 |
| Tank Type | Height |
| Fusion Bonded Epoxy | 9.130m |
| Roof Type | Gross Capacity |
| Geodesic Dome | 6,775,922 Litres |
| Diameter | |
| 30.74m | |

Clydevale, New Zealand

Enhancing Dairy Wastewater Storage

Reliant Solutions was contracted to design, fabricate, and install four Glass-Fused to Steel holding tanks, ranging from 50m³ to 600m³, as part of a dairy factory's expansion to handle additional wastewater. These tanks were selected for their superior resistance to chemical corrosion and abrasion, making them an ideal choice for the demanding conditions of wastewater storage.

Despite challenging weather conditions, Reliant Solutions' experienced team completed the project ahead of schedule, showcasing their ability to deliver high-quality results under pressure. The modular design of the tanks allowed for efficient installation with minimal onsite machinery, reducing overall project costs.

The project underscores Reliant Solutions' expertise in providing durable, reliable, and cost-effective liquid storage solutions that meet the stringent requirements of the dairy industry.



| | |
|----------------------|----------------|
| Application | No. of bolts |
| DAF Tank | 3,423 |
| Tank Type | Height |
| Glass Fused to Steel | 6.330m |
| Roof Type | Gross Capacity |
| Trough Deck Roof | 612,547 Litres |
| Diameter | |
| 11.100m | |

Alexandra, New Zealand

Strengthening Water Resilience

Reliant Solutions successfully completed the design and construction of a 31.594m diameter reservoir, adding 4.8 million liters of storage to the town's water supply system. This new reservoir is a critical component in the town's long-term planning, providing enhanced capacity and resilience against risks such as climate change and natural hazards.

The project involved a thorough investigation to determine the need for additional storage, ultimately resulting in a reservoir that will support growth and ensure the reliability of the water supply through 2048 and beyond. Reliant Solutions worked closely with the client to ensure the reservoir blended seamlessly with the surrounding native landscape, minimising visual impact while maximising functionality.

This project exemplifies Reliant Solutions' commitment to delivering high-quality, sustainable infrastructure that meets the evolving needs of communities.



| | |
|---------------------|------------------|
| Application | No. of bolts |
| Potable Water | 15,734 |
| Tank Type | Height |
| Fusion Bonded Epoxy | 6.330m |
| Roof Type | Gross Capacity |
| Geodesic Dome | 4,962,536 Litres |
| Diameter | |
| 31.594m | |

Kerepehi, New Zealand

Long-Lasting Storage Solutions

As part of the Plains Treated Water Scheme expansion near Thames, New Zealand, Reliant Solutions was entrusted with the design and construction of two 33.30m diameter potable water reservoirs, providing 8,000m³ of additional storage. The project site presented significant challenges due to its low-lying location with silt, clay, and sand layers. After a comprehensive geotechnical investigation, our team implemented ground improvement measures, including the removal of 1.10 meters of unsuitable soil and its replacement with compact hardfill.

The project utilised Glass-Fused to Steel tanks, chosen for their durability, UV stability, and compliance with local standards. These tanks, paired with reinforced concrete foundations and trough deck roofs, ensure long-term reliability and aesthetic integration into the environment.

Reliant Solutions' end-to-end project management and innovative approach made this a flagship project, reinforcing our reputation as New Zealand's go-to contractor for liquid containment solutions.



| | |
|----------------------|------------------|
| Application | No. of bolts |
| Potable Water | 35,702 |
| Tank Type | Height |
| Glass Fused to Steel | 5.630m |
| Roof Type | Gross Capacity |
| Trough Deck Roof | 4,903,575 Litres |
| Diameter | |
| 33.301 | |

Chatham Islands, New Zealand

Remote Storage Success

Reliant Solutions successfully delivered a critical wastewater project for the Chatham Islands, 800km offshore of New Zealand.

The project involved designing, supplying, and installing a 100m³ Glass-Fused to Steel wastewater tank and floor to replace aging timber tanks. This upgrade doubles the operational capacity of the island's treatment plant, serving a quarter of the 640 residents.

The island's remote location and limited resources posed unique logistical challenges. Reliant Solutions overcame these by sourcing and shipping materials from Timaru. The durable tank, chosen for its low maintenance and long lifespan, was completed on time and under budget, ensuring reliable wastewater services for the community.



| | |
|----------------------|----------------|
| Application | No. of bolts |
| Wastewater | 2,122 |
| Tank Type | Height |
| Glass Fused to Steel | 4.276 |
| Roof Type | Gross Capacity |
| Open Top | 106,395 Litres |
| Diameter | |
| 5.977m | |





Reliant
solutions

Need a quality storage solution?

Partner with our expert teams across New Zealand for durable, high-quality liquid containment solutions. We deliver reliable systems that stand the test of time.

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