

Fibreglass Chemical Tanks

For Storing Corrosive Chemicals

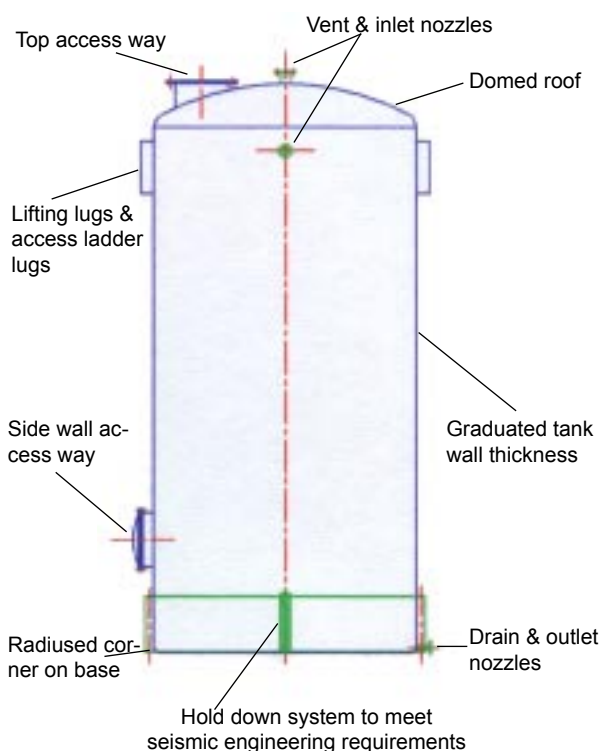
Oct 06



PRODUCT DESCRIPTION

High quality contact moulded FRP (fibreglass) chemical tanks with proven performance in chemical resistance inside and out. A choice of resin systems, design and construction versatility aids construction of high quality products that will reliably and economically handle chemicals.

Typical FRP Tank:



Tank Sizes:

Select your tank from standard diameters of 1200, 1480, 1830, 2000, 2140, 2400, 3050, 3500 mm. Special sizes can be made on request.

Full Service Offered

A full service of design and build, plus delivery and installation is offered. ARMATEC's chemical engineers can give your engineers or consultants whatever assistance is needed on any project. ARMATEC can provide detailed designs for tanks, piping systems, protective coatings for bunds and full air pollution control projects. CAD drawings are done in industry standard packages as required.

HSNO & ERMA CERTIFICATION

Most tanks containing hazardous chemicals are required to be certified by an ERMA registered test certifier under the HSNO Act 1996. Essentially all such tanks over 5,000 litres require a warrant of fitness that has to be renewed annually with ERMA. To assist our customers achieve this: (1) ARMATEC has a "Stationary Container Fabricator Test Certificate" certifying ARMATEC to manufacture fibreglass tanks up to 60,000 litres. The ERMA number for ARMATEC's test certificate is FAB 0004.

(2) A "Stationary Container Design Verification Certificate" from an ERMA registered test certifier is issued to you for each tank, together with ARMATEC's "Producer Statement".

(3) This allows you to obtain a "Stationary Container System Test Certificate" for your installation from an ERMA registered test certifier.

We can take the HSNO and ERMA hassle out of the process for you by supplying the total installed system comprising civils, the tanks, piping, tanker delivery system, liquid level indicators, pressure management, bund protective coating, sumps, drains, safety shower, tank breather system etc **AND** the first 12 month "Stationary Container System Test Certificate. Contact ARMATEC for details.

ISO 9001 Quality Engineered

Our chemical engineers, tank designers and skilled staff provide you with an ISO 9001 quality engineered tank incorporating the latest FRP technology and seismic engineering design standards. Initial ISO 9001 accreditation was gained in August, 1997 and is updated annually. The supervising auditors are BVQI.



Fibreglass tank at pulp and paper mill handling corrosive washer filtrate liquor.

ARMATEC Environmental Ltd

P.O. Box 3046, New Plymouth, New Zealand.

Ph 06-755-0410

Fax 06-755-2346

www.armatec.co.nz

email: k-k@armatec.co.nz

Certified ISO 9001 by

BVQI



A series of fibreglass tanks at a chemical plant. Tanks with a natural translucent finish allow the liquid level within the tank to be observed from the outside.

International Standards

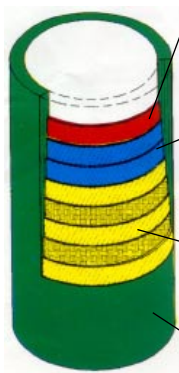
All tanks are fabricated to international standards:

- AS2634 -1983 for chemical plant equipment
- BS4994 -1987 for vessels and tanks
- NZS 4203 -1992 for seismic and wind loadings
- and other standard when applicable

International Technology

ARMATEC uses the latest technical information from the manufacturers of specialist high performance resins from around the world such as Dow Chemical Co, Huntsman Chemicals and Aurora Glass Fibre. Fibreglass is our specialist material and is used for fabricating sumps, manholes, risers, pipes, tanks, ducts, hoods, sewers, stacks and other equipment to handle liquids containing acids, alkalis, milk products and other corrosive fluids.

Cross Section of Tank



Inner Surface. The interior surface 0.25mm - 0.5mm, is a smooth resin rich laminate reinforced with surface veil. Providing optimum corrosion-resistance and a minimal friction factor when combined with the best resin for the specific chemical conditions.

Next Interior Layer. Tanks in all diameters are built with an additional chemical resistant liner at least 2.5mm in thickness in the form of chopped strand mat which critically limits chemical permeation.

Remaining Thickness. Subsequent reinforcing layers of woven roving and chopped strand mat are used to build the tank to the desired wall thickness.

Exterior Surface. The final layer provides protection against weathering, fumes, spillage and ultraviolet attack. This gives the tank a longer life and reduces maintenance expenses.

Options Available:

Fibreglass tanks can be built to any design required. The most economic is a cylindrical vessel with a flat bottom and a domed roof. All FRP tanks are custom engineered and custom built to suit your requirements. Tanks may be vertical or horizontal. Contact ARMATEC with your specific requirements for raised bases, sloping bases, conical bases, nozzles, access ways, access platforms, access ladders, tank support legs, ring mounted supports, insulation, exterior colouring, level indication, clean out sumps, baffles, agitator supports, etc.

Materials Selection:

The resin system is chosen to suit your service conditions; chemicals, concentrations, temperatures, pressures, thermal cycling etc. Please consult ARMATEC for our recommendations. Standard systems are:

- isophthalic polyester
- bisphenol polyester
- chlorinated polyester
- vinyl ester
- furan

The catalyst system and reinforcements are selected to suit the service conditions.

Site Service:

Site crews are readily available for site installation work and maintenance to assist your local contractors. Our leading hands and crews have been working at industrial sites throughout New Zealand for many years.

Warranty & Maintenance Agreements

A standard 12 month warranty is given on all FRP tanks. Maintenance agreements with scheduled inspections can be negotiated with ARMATEC.

More Information:

Check out the "Free Information" section of our website for more on the properties of fibreglass, the handling of fibreglass tanks, and much more.



Fibreglass tank storing corrosive chemical located at dairy factory.

ARMATEC Environmental Ltd

P.O. Box 3046, New Plymouth, New Zealand.
Ph 06-755-0410 Fax 06-755-2346

www.armatec.co.nz

email: k-k@armatec.co.nz

Certified ISO 9001 by

