

FUELEQUIPMENT.COM

Custom *fuelling* solutions

Self-Bunded Fuel Storage Tanks for hydrocarbon liquid fuels

Australian Fuelling Systems & Equipment manufactures a wide range of fuel storage and transport tanks. These include self-bunded and conventional tanks for diesel, ULP and aviation fuels, tanks for transporting fuels, including demountables for diesel and tanks suitable for AS2809 compliant Dangerous Goods vehicles. We also specialise in fitting all required dispensing equipment, management systems and a full range of accessories to customise your tank to suit your requirements. All systems are thoroughly wet tested prior to despatch to minimise onsite works and commissioning.

Australian
designed &
manufactured

Self-bunded
bulk storage tanks
for diesel & ULP.
Custom tanks for
other fluids
available.



Access ladder & platforms can be
installed on either side of tank

Australian Fuelling Systems & Equipment

PO Box 7162 NEMSC 2348 7-11 Armstrong Street Tamworth 2340

Ph: +61 2 6760 7816 Fax: +61 2 6760 7826

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General Information

The following information is provided for general guidance only on topics as shown. No responsibility is accepted for any outcomes or situations arising from your interpretation of any of the guides. In all cases it is recommended that a qualified consultant be engaged to guide your installation of fuel storage and dispensing systems.

Compliances

Tanks constructed by Australian Fuelling Systems & Equipment are built to the following Australian Standards

AS1692- 2006 Steel tanks for flammable and combustible liquids

AS 1940-2004 The storage and handling of flammable and combustible liquids

AS1657 Fixed platforms, walkways, stairways and ladders - Design construction and installation.

We have a rigorous QA testing regime which every tank undergoes prior to delivery. These include pneumatic bubble testing & full hydrotesting, depending on tank type.

Aviation fuel tanks

Please be aware that tanks shown within this brochure are not designed for use with aviation fuels - please see separate brochure detailing our range.

Plug & Play systems

Our tanks are generally ready to go when delivered - except for assembly of the ladder/platform which is shipped separately. The ladder can be installed on either side of the tank to suit.

We prefer to install any specified dispensing equipment or other accessories so that we can wet test complete operation of the whole system prior to despatch.

This means that onsite work is minimised to provision of suitable footings, connection of required power supply and filling for operation.

Tank Management

Tanks can be fitted with management systems that record all issues from the tank - vehicle id, operator id, volume, time etc. Tanks can be fitted with level monitoring devices accessible by phone, internet or proprietary systems.

Retailing fuel from your tank

We can supply and fit, calibrate & certify all required dispensing equipment to National Measurement Institute standards for legal reselling of fuels if required.

Fuel Categories

Liquid fuels are categorised according to their flashpoint (see AS1940)

Class 3 Flammable Liquids include ULP, Avgas, Jet-A1, Mogas, most Kerosenes and a wide range of other fluids including solvents. These have a lower flashpoint than Diesel, which is classified as a Combustible Fluid C2.

Requirements for equipment, location, electrical, site fixtures etc are more stringent for Class 3 Flammable Liquids than for a Combustible Liquid C2.

Site & location requirements

Site requirements (foundations, footings, location, proximity to major works etc) for fuel tanks are as described within AS1940-2004. Foundations & footings will need to be determined by a properly qualified person with local knowledge of terrain & soil types.

It is highly recommended that a properly qualified Dangerous Goods Consultant (member of the Australian Institute of Dangerous Goods Consultants) be engaged to advise on all aspects of Class 3 Flammable Liquids storage and dispensing systems.

Transporting your tank

We can arrange quotation for delivery of your tank or you can arrange this yourself. Generally, you will also need to organise & co-ordinate a crane to unload & place.

Power/flow requirements

As a general guide & depending on the tank size accessories included, a 240v ac single phase power supply will enable a delivery flow rate of up to approximately 80-90 lpm. Tanks used in industrial applications where high flows are required (above 100 lpm) usually will require 3 phase 415v supply or a suitably sized engine. 12 & 24v DC pumps are capable of flows up to approximately 50 lpm.

Note: all fluid from a compliant self-bunded tank has to be delivered through an anti-siphon valve which reduces flows somewhat.

Dispensing fuels

Getting the fuel out of your tank into vehicles, machines or other tanks requires much planning and consideration of your requirements. Please see separate section with our options packages.

Basic considerations are:

Flow rate required

Hose length & hose storage method

Nozzle type - systems can be fitted with

either standard top fill nozzles, Wiggins

type "quick-fill" nozzles or both

Pump system

Power requirements to achieve flows

Flow meter - is the system to be used for reselling?

Filtration

Management system to track who, when & how much fuel was taken.

Tank filling methods

In most cases, it is beneficial for you to check with your fuel supplier as to what is their preferred method of filling your tank.

This can be a bottom filling system with various connection fittings, top filling - we can ensure that the correct method & fittings are included in your tank.

We can supply your tank fitted with automatic shutoff at SFL (overflow protection) that is suitable for remote fill points.

Warranty

Our tanks have a 20 year warranty for integrity when used in accordance with standard industry practice.

All equipment fitted is covered by 12 month warranty for performance as specified and to the limits of the manufacturers warranty.

Fuel supply to Gensets

Please be aware that all compliant self-bunded tanks have to be fitted with an anti-siphon valve - this means that there is no head and so the generator system must have adequate lift pump or be equipped with day tank and suitable refilling system.

Enquiry? - call 1800-025 869 or email sales@fuelequipment.com

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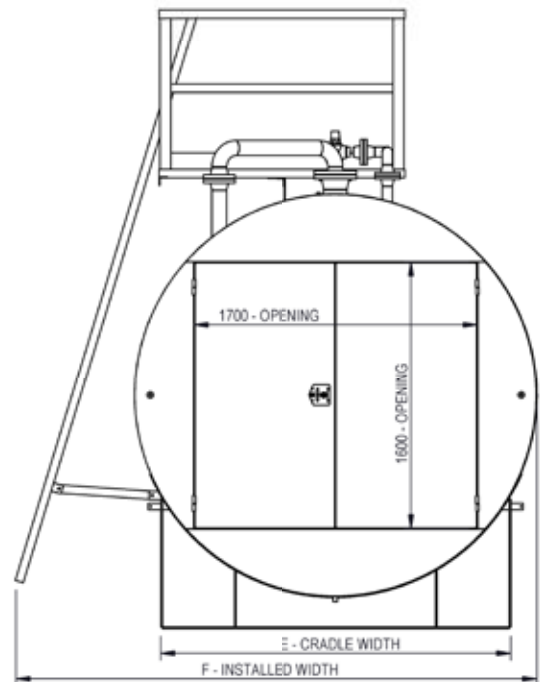
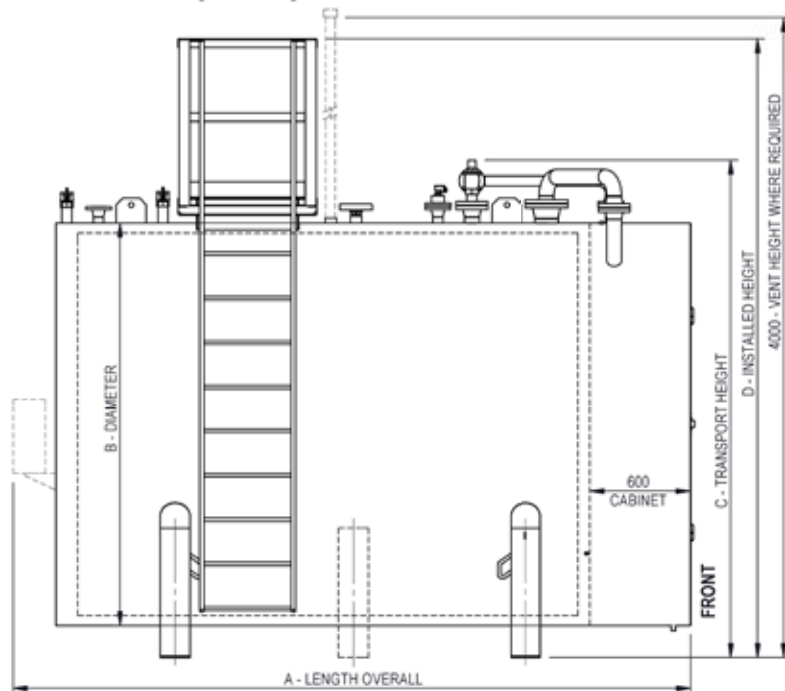
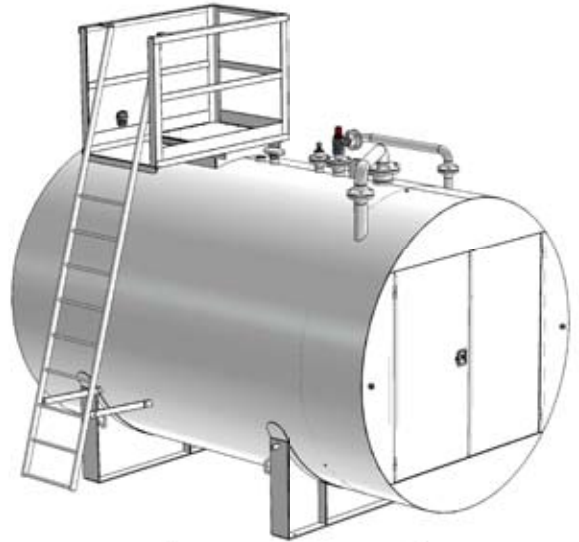
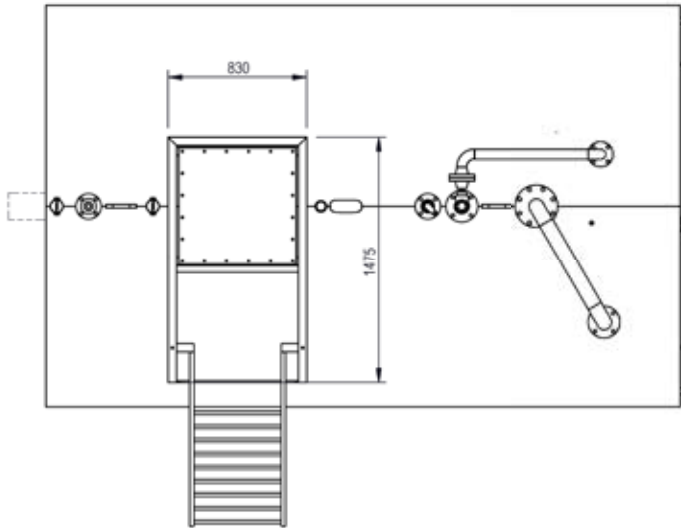
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Self-bunded Tanks



Diesel ULP

Self-bunded cylindrical tank dimensions

Cat#	Cat#	Type	SFL	A	B	C	D	E	F	Mass
123033	123098	T12	11630	3830	2412	2980	3710	2100	3125	3850
123039	123101	T22	21780	6430	2412	2980	3710	2100	3125	5750
123035	123102	T35	33440	6780	2862	3430	4170	2350	3510	7220
123036	123103	T50	50200	9830	2862	3430	4170	2350	3510	10120

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Self-bunded cylindrical tanks



A typical dual outlet dispensing system fitted to a self-bunded tank.



Powered by 415v 3 phase supply, this system includes dual nozzles - a standard top fill automatic nozzle for smaller vehicles as well as a Wiggins "quick-fill" nozzle for rapid refuelling of heavy machinery.

All deliveries are controlled and monitored by a Smart-Fill management system which records details of quantity, vehicle/plant id, operator, date & time. This data is easily transferrable to PC to produce spread-sheets.

Also fitted is a 600 lpm centrifugal pump for high flow transfer of diesel from delivery tanker into storage. All equipment is safely secured in lockable enclosure.

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Self-bunded cylindrical tanks

A typical 240v single nozzle dispensing system



A typical 240v ac dispensing system - ideal for trucks, buses and other standard top-fill vehicles.

Fitted with a Fill-Rite FR310 series high flow pump, this system can be fitted with a variety of options. Unit shown is fitted with the SmartFill management system to monitor all deliveries. This system delivers approximately 75-80 lpm - with variation according to the size of the tank, fuel level and the equipment included.

Options available include:
Various mechanical or electronic flow meters.

Goldenrod 10 micron filtration
Manual or spring rewind hose reel.

Hose length to suit.

All equipment is safely secured in lockable enclosure.



Shown are various dispensing systems which can be fitted to your tank.

These can include DC, 240c ac, 415v 3 phase, diesel & petrol engine-powered pumps and pneumatic systems with single or dual outlets. Pumps can be fitted for resale, with management systems or industrial flow meters.

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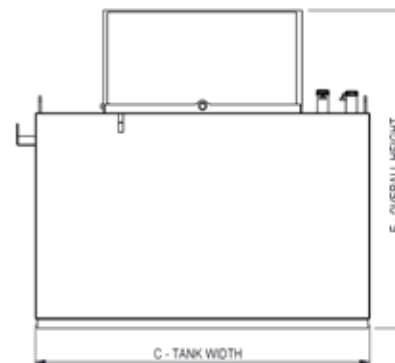
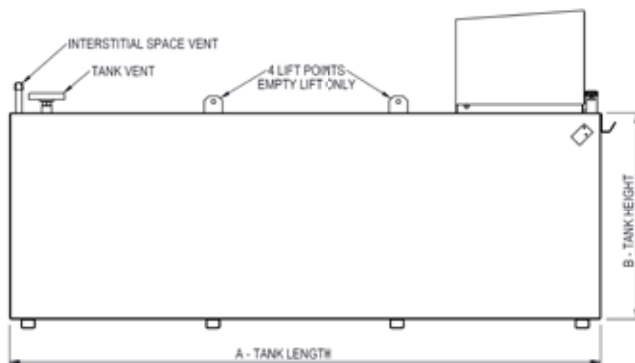
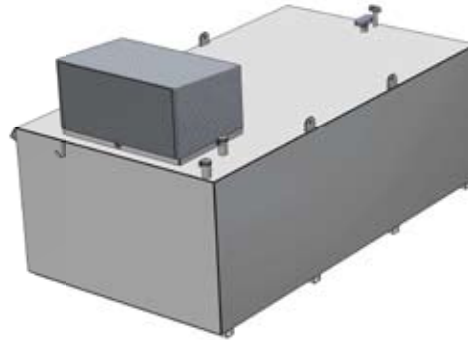
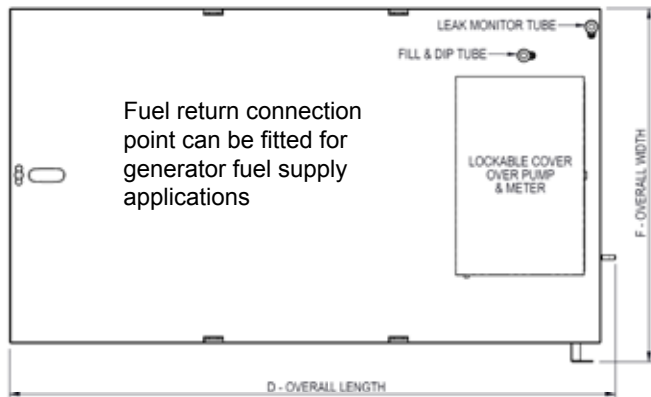
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Self-bunded rectangular tanks



Diesel ULP Self-bunded rectangular tank

Cat#	Cat#	Type	SFL	A	B	C	D	E	F	Mass
123034	123100	T1.5	1450	2400	1150	700	2480	1770	880	800
123030	123047	T2.5	2580	2410	1120	1210	2490	1730	1390	1070
123032	123074	T5	5230	3200	1120	1810	3280	17630	1990	1675

Notes

All dimensions shown are nominal and can vary due to manufacturing and plate dimension variations

Safe Fill Level is 97% of gross volume

Tanks for ULP supplied with vent risers to 4m from ground level - to be fitted on site

We normally supply all self-adhesive signage for Class 3 product tanks to be fitted onsite due to transport regulations.



Various dispensing systems for rectangular self-bunded tanks

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Self-bunded rectangular tanks

Australian designed
& manufactured



A 5000 litre self-bunded tank for ULP. Supplied with piping to connect to bowser at service station site.



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Self-Bunded Waste oil Tanks



5000 litre self-bunded tank custom made for waste oil collection in a busy workshop. Features collection funnel, overfill warning alarm, interstitial monitoring, spill containment and step for safe access.

Other tanks in our range



Tanks To AS2809 for DG vehicles



Diesel tanks for service trucks



Self-bunded aviation fuel tanks



Aviation fuel tanks



Demountable self-bunded tanks



Oil & water tanks for service trucks



Aluminium tanks to AS2809



Tanks to AS2809 for trailers

**Got a question?
Need a quote?**

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