

Self Bundled  
Storage & Dispensing  
Solutions for  
Petroleum Products



**REDSTAR**<sup>TM</sup>

Passionate about Value



# LIQUITAINER

## Containerised Self Bunded Tanks - Design Features



- ◆ Roof with curved radius - NO pooling of water
- ◆ Designed and Approved to AS1692 + AS1940
- ◆ Deep, bunded pump bay - loads of room for dispensing & metering equipment
- ◆ Full width roller door - secure & weatherproof
- ◆ Quality gloss finish Hempel Marine Paint 2 x part system
- ◆ Unique radiused Roof / Walls / Floor resulting in increased strength of the tank and maximises storage for the footprint
- ◆ Removable Plate for tank farm linking
- ◆ Smart fold out ladder for easy deployment on site - no extras to bolt on
- ◆ Strong/light design = economical to build
- ◆ Mechanical overfill protection and battery operated overfill alarm
- ◆ Anti-Syphon Valve supplied on suction line
- ◆ Tank supplied with in-built water drain off point - tank design has low point to facilitate water collection and removal over time
- ◆ Interstitial space dip point and emergency vent supplied
- ◆ Supplied with all required Statutory decals
- ◆ Full under tank visibility facilitates airflow and eliminates corrosion of the floor of the tank
- ◆ AS1657 Designed & Approved ladder & dipping platform assemblies



# LIQUITAINER

## Containerised Self Bunded Tanks - Technical Information



The strength of a cylindrical tank whilst maximizing the storage footprint.

### Design Standards

- Designed and Approved to AS1940 / AS1692 / AS1657
- Designed to SANS requirements
- Designed to UL / ULC requirements
- Designed and Approved with CSC Certification - Container Design Specification

Model	Container Size	Safe Fill Level (Litres)	Weight (kgs)	Length (m)	Width (m)	Height (m)
T12	10ft Container	10100L	4,500kgs	3.0m	2.4m	2.9m
T30	20ft Container	26500L	7,500kgs	6.0m	2.4m	2.9m
T65	40ft Container	62300L	14,500kgs	12.0m	2.4m	2.9m
T80	48ft Container	76000L	18,000kgs	14.4m	2.4m	2.9m
T110	-	105000L	21,000kgs	14.4m	3.0m	3.2m
Multiple Compartment tanks are also available						
Dimensions and capacities are nominal only. Alternative capacities available on request.						

### Technical Summary

- Self Bunded Design.
- Manufactured from Grade 250 Fully Certified Carbon Steel Plate (documentation available upon request).
- All pipework Schedule 40 Carbon Steel Linepipe. All Flanges ANSI 150#. All Valving Fire Safe Carbon Steel.
- Wall thickness - 2 x 6mm thick plate.
- Screwed outlets are BSP threaded.
- 25nb water drain removal point - tank features engineered low point for collection and removal of water within the tank.
- Full Under Tank Visibility for long term tank farm applications.
- CSC Plated as a Shipping Container.
- Able to be transported Road / Rail / Sea or Air .
- Designed and approved to AS1940 / AS1692 .
- Unique Rounded Rectangular Design.
- 2 x 600mm Manway with Ladder Access to Tank.
- Front Bunded Pump Bay with full frontal access.
- Weatherproof heavy duty roller door.
- Supplied with Overfill Protection Valve, Visual / Audible Overfill Alarm and Anti Syphon Valve.
- Painted Brilliant White. Tanks are sandblasted to SA2 standard. Painting - Hempel Marine Paint utilizing 2 x stage process. Main Coat Hempadur Fast Dry 15560, Final Coat Hempthane Enamel 55100.
- Supplied with statutory decals.
- AS1657 approved ladder / platform assembly.





# LIQUITAINER Multi-Compartment and New T80 / T110 Tanks

## Liquitainer Multi-Compartment Tanks



- Available for our full range of tank footprints
- Features the unique Liquitainer rounded rectangular roof / wall / floor design
- Provides ability to store multiple fuels or multiple grades of lubricant in the one tank footprint
- Each compartment supplied with:
  - 600mm manway
  - dedicated 80nb fill line including fire rated full bore isolation valve, non return valve, overfill protection valve, battery operated overfill alarm
  - dedicated 80nb suction line including anti syphon valve and fire rated full bore isolation valve
  - dedicated air vent assembly c/w 4m Raised stand pipe
- AS1657 designed and approved ladder / platform assembly
- Full Under Tank Visibility for long term tank farm applications

## Liquitainer 80,000L + 110,000L Tanks



- NEW range of Liquitainer tanks
- Large capacity perfect for multiple tank fuel farm applications
- features unique Liquitainer rounded rectangular roof / wall and floor profile
- Container pin castings located in ISO 48ft locations - top and bottom of the tank
- Full under tank visibility
- 80nb fill line Sch 40 c/w full bore fire rated isolation valve, fast fill tanker connection point, non return valve, mechanical overfill protection valve, battery operated overfill alarm
- 80nb suction line Sch 40 c/w anti syphon / foot valve and full bore fire rated isolation valve
- Suction line features dedicated pump priming point
- 25nb water drain removal point - tank features engineered low point for collection and removal of water within the tank.
- Interstitial space dip point and emergency vent
- 2 x 600mm manway and integrated tank access ladder
- AS1657 designed and approved fold out ladder / platform assembly for tank dipping / maintenance access
- Bunded Pump Bay Housing c/w Lockable / weatherproof roller door assembly.





# FUEL CUBE

## Self Bunded, Baffled Tanks



Size Range  
450, 950, 2000, 3000, 4500, 6300, 6500  
(containerised), 10000 and 13000 (containerised)  
Litre Capacities.

### Features and Benefits

- UN31 A / Y Approved for Transport of Dangerous Goods
- AS1692 / AS1940 Approved for Static Storage
- Self Bunded (Double Wall) Design
- 110% Secondary Containment
- Inner Tank can be Removed for Maintenance / Cleaning
- Field Proven Design
- Diesel / Petrol / Lubricants

### Usage

- Site Static Storage
- Delivery
- Storage
- Transport
- Decanting

- Self Bunded Tanks with UN31A/Y approval for the transport of Dangerous Goods by Road, Rail and Sea, Packaging Groups II & III.
- These Cubes are fabricated from high grade mild steel. An inner tank contains the initial volume of liquid.
- In the unlikely event that this tank develops a leak the outer tank will prevent the liquid from escaping into the environment.
- The bunded tank has a capacity of 110% of volume. All seams are welded to exacting standards.
- The Cube is designed with an easy removable steel inner tank for maintenance and inspection.

All Cubes are available in a range of capacities, ideal for transportation by either truck or shipping container and suit most hydrocarbons storage and transport requirements.

- Robotic welded seams guarantee lasting high quality.
- The ultimate in quality at very affordable prices.
- Meet strict quality standards, are PPG2 compliant and EU approved.
- Three (3) year guarantee.
- Manufactured in heavy duty steel.
- All pumps, connections and hoses are housed and can be locked within the bund, even in use!
- Colour is RAL9010 Pure White.
- Can be stacked 3 high when empty and 2 high when full.
- 6300L, 6500L (containerised), 10000L and 13000L (containerised) models are supplied with Overfill Protection Valve / Anti Syphon Valve and Overfill Alarm Unit.

### Self Bunded Cubes Features at a Glance

- Heavy duty steel
- Pumps / connections / hoses housed in bund, which can be locked even when in use!
- Stackable - 3-high empty / 2-high when full
- Approved for transport of dangerous goods and / or static storage
- Bunded tank capacity 110% of volume
- Easily removable steel inner tank for maintenance and cleaning
- Suitable for Diesel / Petrol / Lubricants

Model	Safe Fill Level (L)	Weight (kg)	Height (mm)	Length (mm)	Width (mm)
450L	420	380	750	1300	1000
950L	860	680	1235	1670	1050
2000L	1800	980	1235	2550	1130
3000L	2700	1150	1235	2550	1650
4500L	4100	1650	1235	3000	2000
6300L	5950	2150	1235	3560	2166
6500L containerised	5950	2500	1300	3000	2400
10000L	9000	3500	1252	5838	2200
13000L containerised	12000	4500	1300	6000	2400

Dimensions and capacities are nominal only. Alternative capacities available on request.





# FUEL CUBE

## Self Bunded, Baffled Tanks

### Environmentally Responsible Storage

- 110% Secondary Contained Self Bunded Tank
- All fittings, hoses, pumps, nozzles, dispensing points are located within the bunded area.

### Approved for Transport

- All Cubes are IBCs in accordance with Australian Code for the Transport of Dangerous Goods by Road & Rail clause 1.2.1.2.7.
- These Cubes are tested to the UN recommendations on the transportation of Dangerous Goods, 13th Edition, and meet the requirements of the Australian Code for the Transport of Dangerous Goods by Road & Rail section 6.5.
- Cubes comply with the Federal Office of Road Safety Specifications for Intermediate Bulk Containers for the Transport of Dangerous Goods.

◆ Fully Baffled - UN31AY Approved: can be transported with liquid

◆ 110% Secondary Containment

◆ Self Bunded Design - AS1940/AS1692 Approved

◆ 4 x way Forklift Pockets

◆ Tank can feed and return from up to 3 generators at once

All the Standards are Covered

- AS1940 / 2004 + AS1692 Designed and Approved
- United Nationals UN31AY Packaging Approval
- ADG Designed and Approved
- PPG2 / PPG26 Approved
- 110% Secondary Contained (Self Bunded)



◆ Removable lid for ease of maintenance

◆ Inner tank can be removed for maintenance



◆ Fully lockable lid on gas struts

◆ Generator hose suction + return ports

◆ Crane Lifting Lugs

◆ Internal bunded lockable pump/dispensing housing

◆ Dispensing equipment can be locked away in a bunded area, even when in use



## CUBE Lubricants and Waste Oil Storage



### Lubricants Storage Cube



- The range of Self Bunded and Baffled Cubes are perfect for the site storage or transport of bulk lubricants.
- Smart, environmentally responsible option to the use of drums on site
- Reduce the number of times you are decanting oil and as a result reduce the risk of spills and introduction of contamination to your site lubricants by moving to a bulk delivery and storage solution
- Can be used to transport bulk oil from the oil company facility to your site.
- Approved to UN31AY, the United Nations standard for Intermediate Bulk Containers for the storage and transport of dangerous goods.
- 110% bunded - can be used to store and dispense bulk lubricants on site.
- We can supply and fit a full range of pumps, meters, hose reels and nozzles for bulk dispensing on site. Redstar proudly supplies and installs GRACO lubrication equipment.
- Eliminate the introduction of airborne contaminants including dust and water / moisture by using the Donaldson TRAP Air Vent Filter
- Stainless steel inner tank version available for coolant applications
- Designed and approved to AS1940 / AS1692

### Waste Oil Storage Cube



- These Cubes are an environmentally smart and operationally efficient way of storing and transporting waste lubricants on site.
- There is an increasing focus on the full life cycle of lubricants on site, from new oil coming on site to the removal and environmentally responsible disposal of waste lubricants from site.
- The 110% self bunded, fully baffled, UN31AY designed and approved Redstar Cube provides a convenient evacuation / bulk storage point on site for waste lubricants.
- The tanks are designed to allow the waste oil collection contractor to evacuate the contents of the tank with ease.
- The tanks can be configured with a wide range of collection and evacuation options to increase the functionality of the tank on site. These options include:
  - Bulk Pour Points
  - Air Driven Diaphragm Pump Evacuation systems
  - Filter and bucket drain points
  - Use of Wiggins or Banlaw dry break evacuation fittings for seamless evacuation of waste oils from site machinery
- Drum evacuation system
- Designed and approved to AS1940 / AS1692



## Self Bunded Fuel Trailer 1250L + 2000L Capacity

### Why You Should Choose a REDSTAR Trailer



For hire company applications or stationary equipment connection requirements (such as generators, lighting towers, pumps etc) we provide 2 x suction connection points and 2 x return connection points. These suction and connection points are conveniently located at the rear of the trailer for simple / quick connection to site equipment. We provide foot valves on the 2 x suction points to ensure that you retain a prime on the suction line of the stationary equipment.

Best Environmental Compliance: tank is fully baffled to ensure stability of liquid when towing

Independent Chassis: the chassis is separate to the main tank module. Can be removed for maintenance.

50mm Towball Hitch Assembly

Fully hot dipped galvanised frame

Roller/rocker suspension system

NEW tyres/large Sunraysia rims

Heavy Duty, Dual Axle System

Safety Chain Assembly

Mechanical Over Ride Brakes on 1250L Model / Electric Brakes on 2000L Model

LED Lighting

Heavy Duty Swing Away Jockey Wheel

Rear drop down supports for trailer stability when the trailer is not connected to a vehicle

Heavy Duty Stainless Steel Roll Bars, firmly fixed to the main chassis unit

Meets requirements for towing of fuel in accordance with Australia Dangerous Goods Transport regulations.



Gas strut lockable lid for access to tank fueling area

Tank fueling area features mechanical level gauge, numerous spare ports for connection of support / ancillary equipment, fuel industry standard anti static fill tube, weatherproof recessed housing.

Amber Site Flashing Light with Extension Pole

Spare tyre and tyre mounting cradle

Drawbar mounted bunded, weatherproof, pump bay housing

Fire Extinguisher (4.5kg)

Low Profile Aerodynamic Style - Low centre of gravity.

Heavy Duty design suitable for on and offroad use. The trailer is suitable for registration throughout Australia.

Pump bay has been design large enough to store all required dispensing equipment including the pump, meter, filter, hose reel, battery etc

Pump Bay is fed by independent 40mm id suction line with foot valve preinstalled. The foot valve guarantees a prime on your pump unit for ease of next start fuel flow

2 x lockable reverse opening full length access doors

Aerodynamic profiled design for ease of towing. NOTE dispensing equipment is specified specifically for your application.

Optional 304 St/St inner tank for aviation fuel applications





## Self Bunded Fuel Trailer 1250L + 2000L Capacity

• Designed and produced in Australia, this innovative self bunded trailer meets the requirements of the Mining, Civil Construction, Hire Industry and General Industrial Markets.

### Features include:

- Total unit, when fully loaded with fuel and fitted with dispensing equipment, weighs in under 2 tonne. Accordingly, the Redstar 1250L Self Bunded Fuel Trailer can be towed without the need for any in vehicle brake controller unit. This is perfect for those customers who operate a fleet of equipment - the Redstar 1250L Self Bunded Fuel Trailer can be towed by any suitable rated vehicle in the fleet.
- 2000L model is supplied with electric brakes. NOTE an in-car brake controller unit is required. We can provide a new wireless device for use in car - coupled with 12V / hydraulic brake system. The unit when fully laden weighs in at 3000kg
- True self bunded, tank in tank design. The inner tank can be removed from the outer tank for long term testing, cleaning, maintenance. We don't simply just weld two bits of steel together and call this a self bunded tank!
- Our design provides the best environmental compliance. The tank is fully baffled to ensure liquid stability when towing the Self Bunded Trailer.

- Our chassis is independent / separate to the main tank module. The tank module can be removed for maintenance over a period of time. The design includes:
  - dual axle configuration
  - fully hot dip galvanised frame
  - roller / rocker suspension system
  - new tyres / large Sunraysia rims / heavy duty axle system
  - 50mm towball hitch assembly
  - electric brakes on 2000L Model
  - safety chain assembly
  - rear drop down supports for trailer stability when the trailer is not connected to a vehicle
  - Heavy duty swing away jockey wheel
  - LED Lighting
  - Heavy Duty Stainless Steel Roll Bars, firmly fixed to the main chassis unit
  - Meets requirements for towing of fuel in accordance with Australia Dangerous Goods Transport regulations.
- Low profile / aerodynamic style / low centre of gravity
- Gas strut lockable lid for access to tank fueling area. Tank fueling area features mechanical level gauge, numerous spare ports for connection of support / ancillary equipment, fuel industry standard anti- static fill tube, weatherproof recessed housing.



- For hire company applications or stationary equipment connection requirements (such as generators, lighting towers, pumps etc) we provide 2 x suction connection points and 2 x return connection points. These suction and connection points are conveniently located at the rear of the trailer for simple / quick connection to site equipment. We provide foot valves on the 2 x suction points to ensure that you retain a prime on the suction line of the stationary equipment,
- Fire Extinguisher (4.5kg)
- Amber Site Flashing Light with Extension Pole
- Spare tyre and tyre mounting cradle
- Drawbar mounted bunded, weatherproof, pump bay housing. 2 x lockable reverse opening full length access doors. Pump Bay is fed by independent 40mm id suction line with foot valve preinstalled. The foot valve guarantees a prime on your pump unit for easy of next start fuel flow. Pump bay has been design large enough to store all required dispensing equipment including the pump, meter, filter, hose reel, battery etc. Aerodynamic profiled design for ease of towing. NOTE dispensing equipment is specified specifically for your application.
- Optional 304 St/St inner tank for aviation fuel applications.
- Heavy Duty design suitable for on and offroad use. The trailer is suitable for registration throughout Australia.





# FUEL CUBE SELF BUNDED TRAILERS

950L | 1250L | 1500L | 2000L | 3000L | 4500L | 6300L

## SELF BUNDED FUEL TRAILERS



- Tough and simple range of self-bunded trailers manufactured using our tried and trust range of self-bunded, baffled, CUBES.
- Size Range 950L | 2000L | 3000L | 4500L | 6300L
- Chassis choice of dual axle heavy duty or dog style trailers with full turntable assemblies.
- Tank module designed and approved to AS1940 / AS1692 / UN31AY
- True 110% Bunded Tank module design, tank in tank construction providing removable inner tank for long term maintenance and inspection
- Fully Baffled Tank module reduces movement of the liquid in transport and further strengthens the tank design
- Full trailer manufactured in accordance with Australian Dangerous Goods Transport requirements
- For hire company applications or stationary equipment connection requirements (such as generators, lighting towers, pumps etc) we provide 2 x suction connection points and 2 x return connection points. These suction and connection points are conveniently located at the rear of the trailer for simple / quick connection to site equipment. We provide foot valves on the 2 x suction points to ensure that you retain a prime on the suction line of the stationary equipment.

- Our chassis is independent / separate to the main tank module. The tank module can be removed for maintenance over a period of time
- Trailers can be supplied fully hot dipped galvanized, painted or powder coated
- All trailers are supplied with Amber Flashing Light on extendable pole assembly. Light is wired to strobe when trailer is connect to the vehicle and is being towed with the vehicles headlights on, or when the pump is being used to dispense fuel from the unit
- Choice of Mechanical Override, Electric or Hydraulic Brake Systems.
- NEW in car wireless brake controller device now available for our 12V / Hydraulic Trailer Brake system.
- Trailers are designed for both on and off road applications. Heavy duty, non road registerable designs available for civil construction / mine site applications
- Full range of dispensing equipment available including 12V / 24V / Petrol or Diesel Driven Pumping Systems
- Solar Panel and Battery Kits available for self powered remote applications.
- Options such as hand wash, eye wash, spill kits, mining packages (including wheel chocks, wheel nut indicators and fluoro striping) are available.





SAFE FILL 3000 LITRES

WARNING ONLY LIFT HERE WHEN EMPTY

DANGER NO SMOKING NO NAKED FLAME

# CUBE + TRAILER Accessories



Electric Pumps 90 / 55 lpm  
Hand Pump 8 lpm

12V / 24V or 240V - mounted either within bund or in lockable enclosure on top of the tank. + Hand Pumps



Pump 70 / 76 / 110 or 120lpm

12V / 24V / 240V options or Petrol Driven Pump - mounted in lockable enclosure on top of the tank.



Pump (240V or 12V) c/w Electronic Fluids Management System

Can accept vehicle registration numbers and odometer readings.



Quick Connect Fittings

Male + Female available in a variety of sizes.



Foot Valves / Non Return Valves

Full range of suction and return line fittings.



Filtration

Particulate and hydrosorb filtration options to keep your fuel clean.



Digital or Mechanical Meter 1"

Can be nozzle mounted or mounted inside the bund



Spill Response Kit

Enretech sorbents for cleaning spills on workshop floors, refuelling areas, marinas, water.



Hose

Redstar supply a full range of quality hose with a variety of end connection options.

# Contact REDSTAR EQUIPMENT

PH: 1800 733 782 Australia-Wide  
[www.redstarequipment.com.au](http://www.redstarequipment.com.au)



**REDSTAR**<sup>TM</sup>

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