



GRAF UNDER GROUND RAINWATER TANKS

The best water saving system you'll never see.



SAY GOODBYE TO UGLY WATER TANKS

Contents

Graf Underground Systems	3
A Complete Solution	4
Graf Platin	6
Graf Carat	10
Graf System Accessories	14

Graf Fast Facts

Graf brings 50 years' experience to the world wide rainwater harvesting industry.

All tanks are patented meaning Graf's unique features and designs are only available from Graf.

German award winning design – sold in over 60 countries.

All tanks are suitable for car loading when installed with the Car Telescopic shaft and lid.

Groundwater stable.

Full sized 600mm manhole, easy access to filter and tank maintenance.

Suitable for either storm water retention or detention.

Tanks made from recyclable materials.

Complete rainwater harvesting system.



Reece Product Quality Guarantee

All products enjoy a product replacement warranty.

For full warranty details visit

www.reece.com.au/productquality

Graf Underground Systems

The Graf water harvesting systems are the smartest way to collect rainwater for use around the home. Whether you simply require extra garden water or a water saving solution for your toilet and laundry, the design of the Graf system makes it easy.

The principle behind the Graf water harvesting system is simple. The collected rainwater from your roof is fed into the underground tank via an integrated filtering system. The water is then delivered for use in and around your home via an electric pump. The pump can be either placed above ground or fitted inside the tank.

Graf underground rainwater harvesting systems are one of the most popular in the world today - and with good reason. Because the tanks are stored underground, the water is kept very cool, virtually eliminating the possibility of algal growth. So while you maintain the beauty of your outdoor environment, your tank is maintaining the quality of your water.

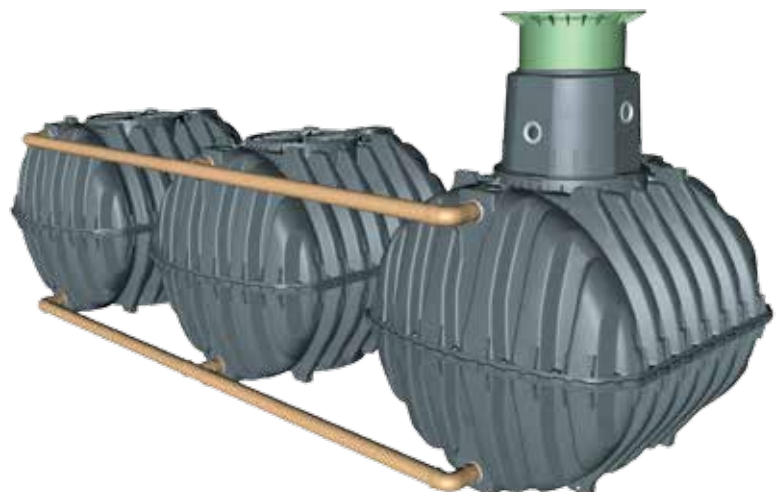
Graf Platin

- Minimal installation depth. Up to 80% less digging for the same volume tank.
- Shallow excavation makes it suitable for rocky ground and locations with high groundwater.
- Its unique design means a smaller foot print compared to competitor tanks with the same volume.
- Smaller angle of repose.
- Unique rotation moulding process resulting in seamless internal joins, for extra strength.
- Can also be used as an under-deck tank, above ground or semi-submerged.
- 12 year tank warranty.



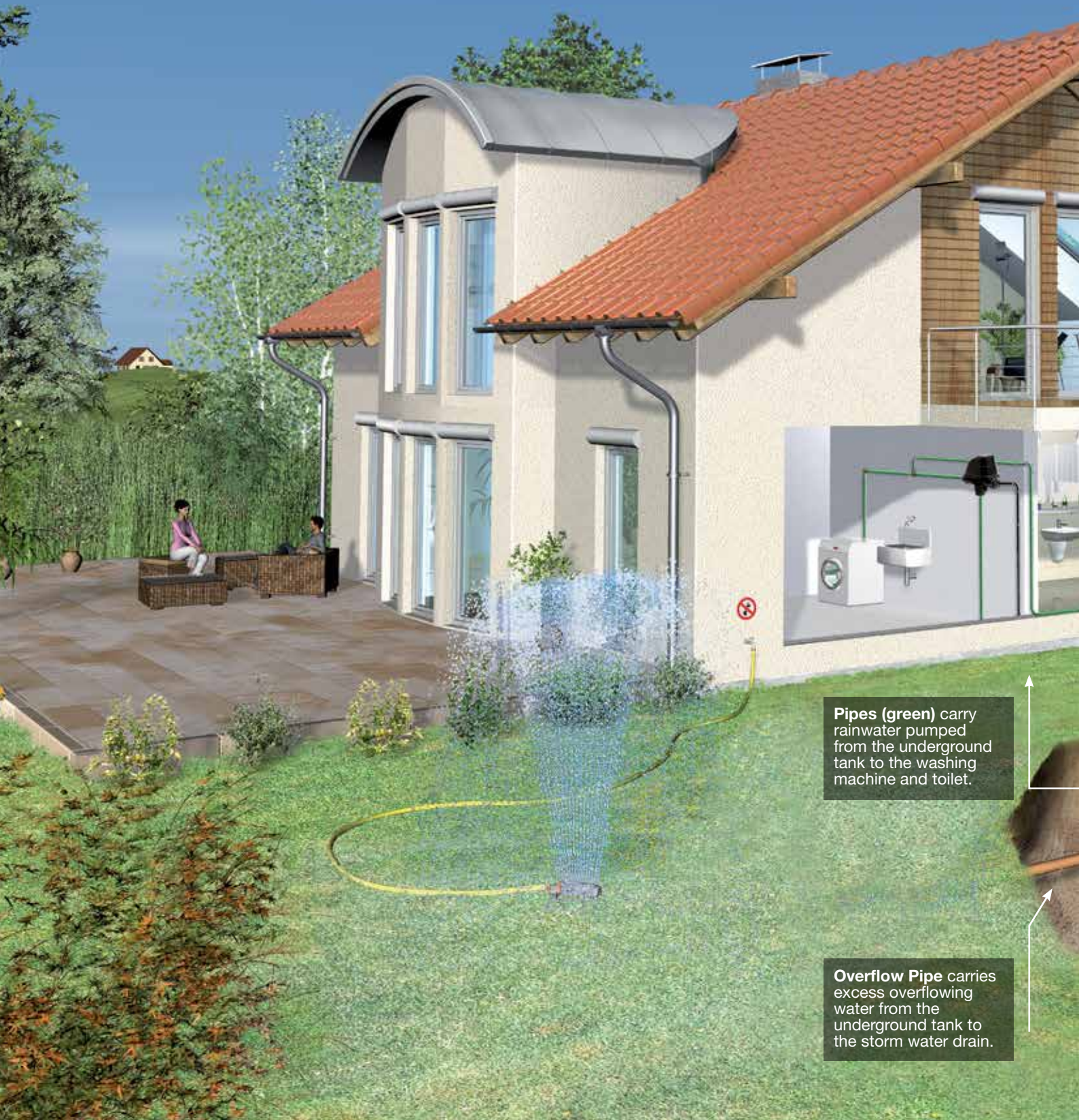
Graf Carat

- The Graf Carat underground tank is sold in more countries around the world than any other tank.
- Unlimited tank capacity with specially designed extension tanks.
- Unique 2 part design allows the tank to be easily handled on site by two people.
- Transport and logistics advantage, with up to 9 tanks able to be stacked on a pallet.
- Greater earth coverage over the tank allows more soil for plants to grow above/around the tank.
- Dome can be adjusted to line up with existing plumbing.
- Injection moulded providing unbeaten strength and stability.
- 18 year tank warranty.



Graf systems - A complete solution

Finally a system that offers all the advantages of a traditional water tank without taking up vital space in your backyard. The innovative Graf tank range is specifically designed for storage underground, providing all the extra water you need, conveniently and economically.



Pipes (green) carry rainwater pumped from the underground tank to the washing machine and toilet.

Overflow Pipe carries excess overflowing water from the underground tank to the storm water drain.



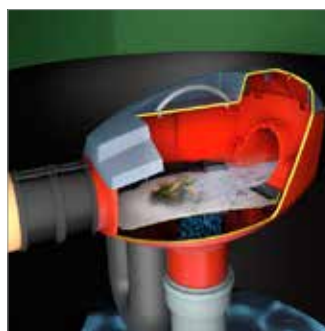
All Downpipes around the house carry rainwater from the roof to the underground tank.

Day after day, toilet flushes, washing machines and garden irrigation are using precious drinking water. Yet drinking water is totally unnecessary for these high consumption applications. Through the use of the Graf rainwater harvesting system your drinking water consumption can be reduced by as much as 50%. The underground design allows you to catch the rainwater from all of your downpipes.

Combined with the Vada V75-S pump and Rain2Main, you can supply your washing machine and toilets with rainwater, seamlessly switching to mains water if the tank is empty. Plus it can be connected directly to your irrigation system to keep your garden green.

The Graf rainwater system provides a complete solution for use in the house and garden.

Your choice of tank sizes (expandable for even greater volumes in the case of the Carat) can be matched with your choice of lid for use in garden areas or under a driveway – ensuring your tank blends seamlessly into your surroundings.



The Minimax self cleaning mosquito proof filter provides over 95% water yield with a minimum of maintenance. With a mesh width of just 0.35mm this filter reliably provides clean water.

With the optional Opticlean spray cleaning unit, an intense water jet for cleaning the filter sieve means routine maintenance intervals are kept to a minimum.

Coupled with the Rain2Main, the Vada V75-S pump is the premium automatic rainwater control system. The V75-S pump sits silently inside the tank while the Rain2Main component is mounted outside the tank. If the tank is empty, the Rain2Main will revert to mains supply.

Graf Platin

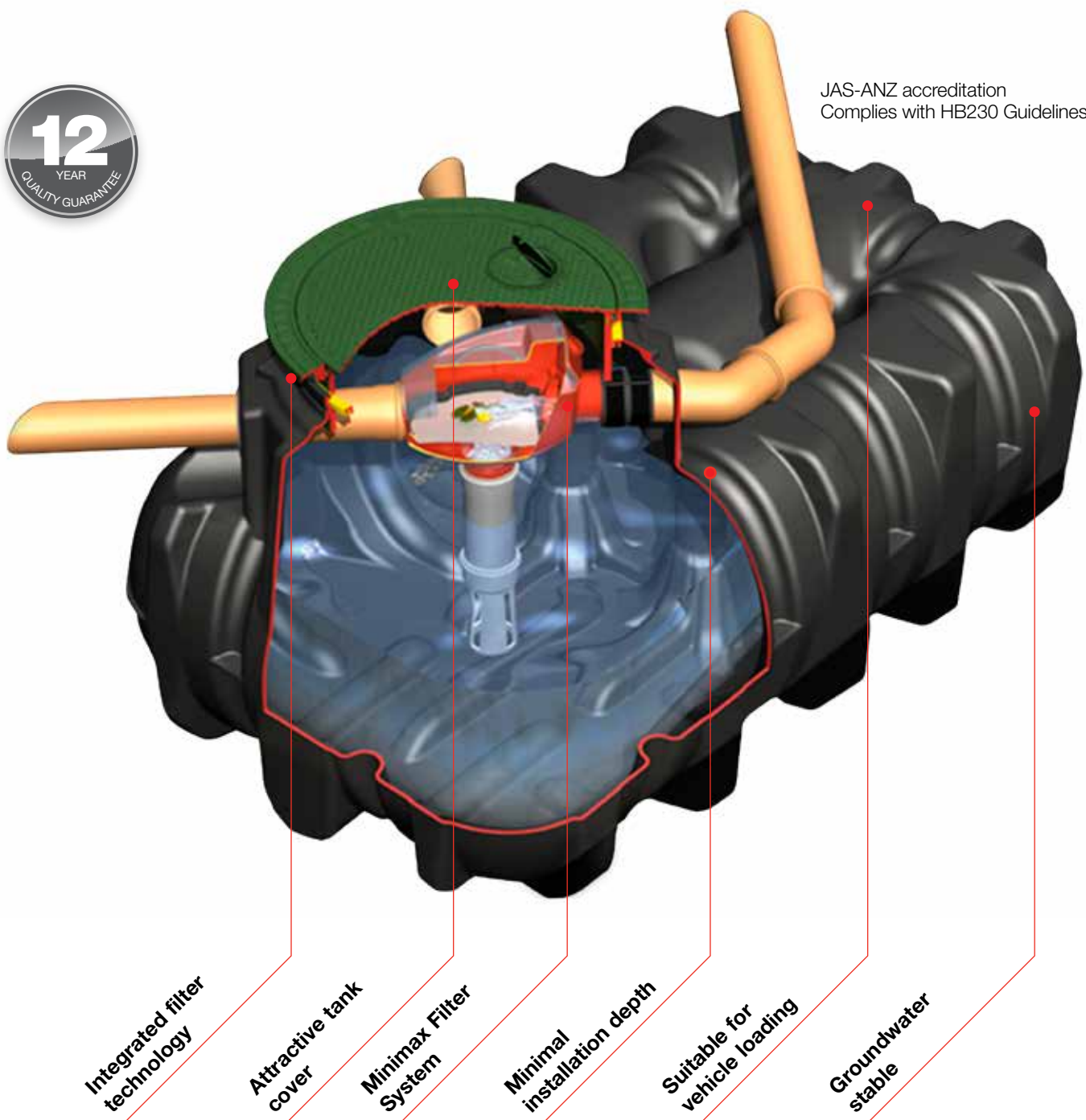
Shallow excavation

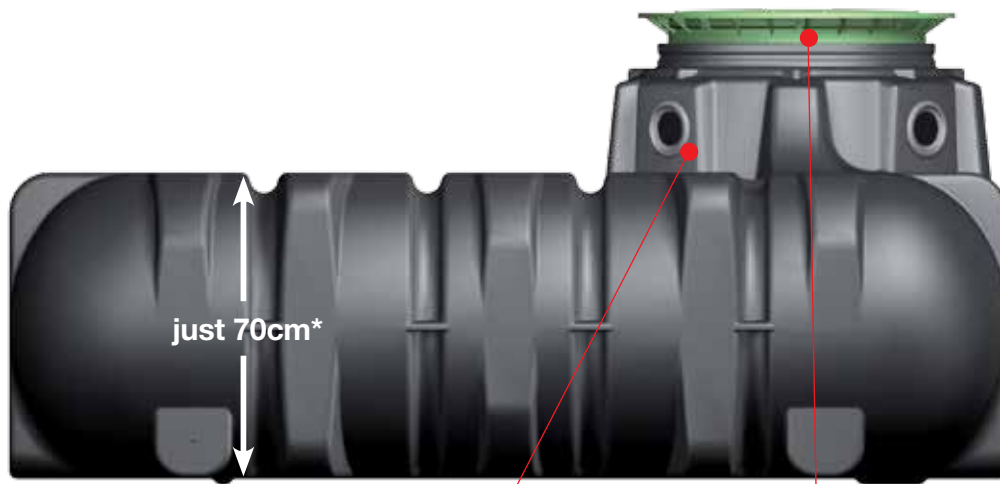
Finally a system that offers all the advantages of a traditional water tank without taking up vital space in your backyard. The innovative Platin tank range by Graf is specifically designed for storage underground, providing all the extra water you need, conveniently and economically.

- Minimum installation, which translates into short installation times, lower costs and less angle of repose
- Suitable for car loading (with Type B lid)
- Small footprint = less digging
- Groundwater stable
- Designed to prevent flotation
- Internal seamless joins
- Award winning German design, made in Australia
- Certified to AS1546.1 and AS4766:2008
- Suitable for storm water retention/detention



JAS-ANZ accreditation
Complies with HB230 Guidelines





*1500L tank

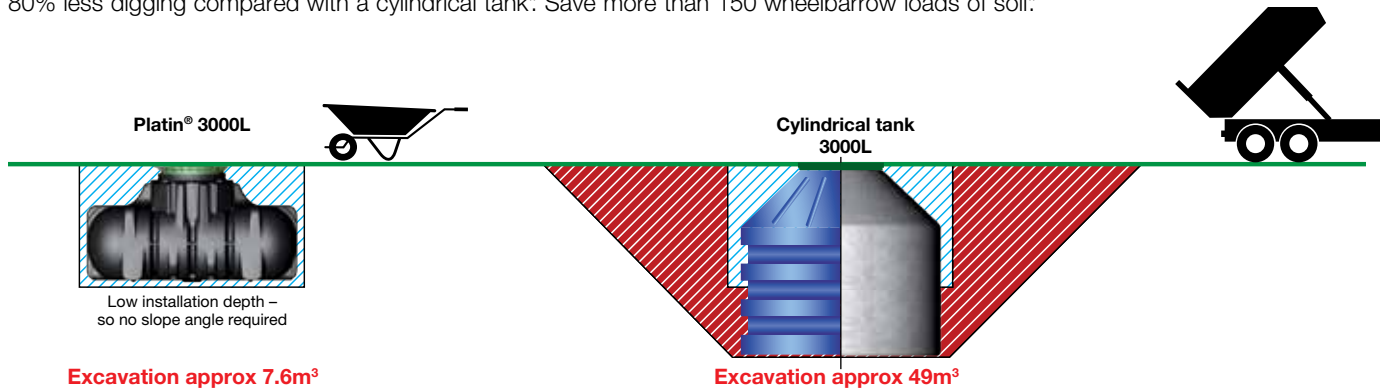


Multiple tank installation allows for unlimited volume of water storage

Graf Platin

Less digging. Less work. Fewer costs

80% less digging compared with a cylindrical tank*: Save more than 150 wheelbarrow loads of soil*



*Based on a vertical, cylindrical tank with a usable volume of 3000L, a height of 1.90m and a diameter of 2.20m. Calculation of excavation is under consideration of a ditch bottom of 10cm, a sideways distance of 50cm and a slope with 45° gradient.

Filters



Minimax Filter System

Minimax Filter System

Designed with a minimal height offset between the inlet and outlet, this is a great option where there is minimal fall in the storm water pipes. This mosquito proof filter provides over 95% water yield.

- Roof areas up to 350sqm
- Standard 100mm connections
- Optional spray cleaning unit (reduces maintenance requirements)
- Filter insert mesh width 0.35mm

Minimax Filter Package Includes:

- Filter and Housing
- Inlet & Outlet Adaptors
- Rodent Guard
- 2 Spanifix Collars for easy connection
- Emergency Storm Overflow Siphon
- Inflow stilling system which takes incoming water right to the base of the tank.

Shafts & Lids



Telescopic shaft and lid (standard)

This standard shaft and lid is specifically designed for non-vehicle loading which makes it ideal for general garden use. The shaft can be adjusted from 140mm to 340mm and tilted up to 5° to make installation to finished ground level easy. Includes a tough, long lasting child proof lockable PE lid.

Maximum weight: 150kg



Telescopic shaft and lid (Car - Type B)

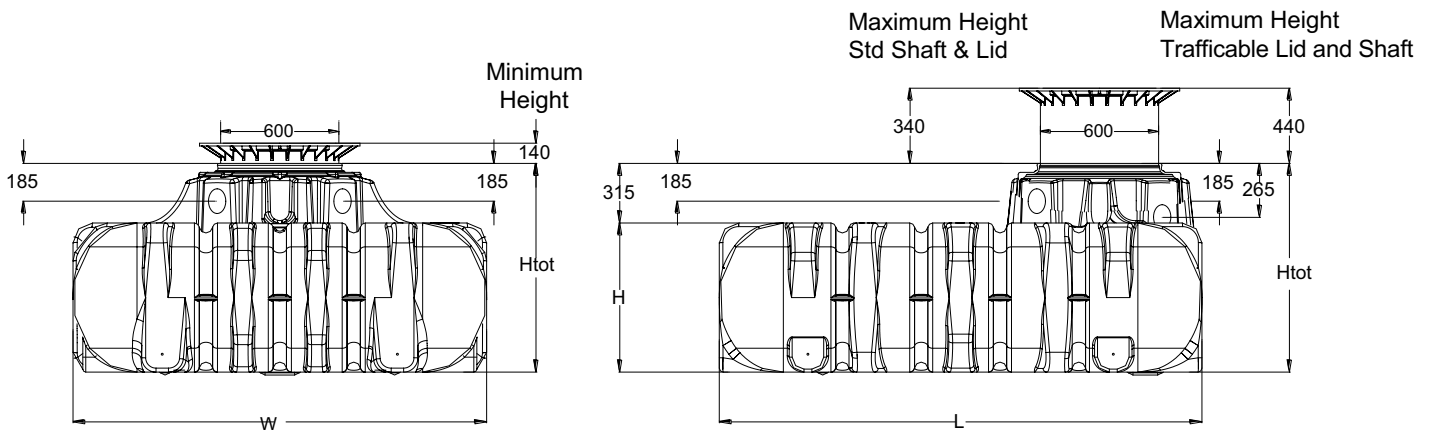
Designed specifically to cope with the weight of passenger vehicles, this shaft can be adjusted from 140mm - 440mm and tilted up to 5° to sit flush with the ground level. Includes a child safe cast iron lid.

Maximum weight: 3.5 tonnes Gross Vehicle Mass

Technical data

Graf Platin Tank	1500 Litres	3000 Litres	5000 Litres
Weight	82kg	180kg	250kg
L	2100mm	2450mm	2890mm
W	1250mm	2100mm	2300mm
H	700mm	735mm	950mm
Htot*	1015mm	1050mm	1265mm
Minimum Hole Size (L x W x H)	2300 x 1450 x 1155mm	2650 x 2300 x 1190mm	3090 x 2500 x 1405mm

* Htot = total height



Tanks / Packages

1908974	Graf Platin Tank (Std) Package	1500L
1908975	Graf Platin Tank (Std) Package	3000L
1908976	Graf Platin Tank (Std) Package	5000L
1908971	Graf Platin Tank (Std) & Filter Package	1500L
1908968	Graf Platin Tank (Std) & Filter Package	3000L
1908965	Graf Platin Tank (Std) & Filter Package	5000L
1908977	Graf Platin Tank (Car) Package	1500L
1908978	Graf Platin Tank (Car) Package	3000L
1908979	Graf Platin Tank (Car) Package	5000L
1908972	Graf Platin Tank (Car) & Filter Package	1500L
1908969	Graf Platin Tank (Car) & Filter Package	3000L
1908964	Graf Platin Tank (Car) & Filter Package	5000L

Standard Package

Includes:

- Graf Platin rainwater tank
- Graf telescopic shaft + lid (standard)

Standard & Filter Package

Includes:

- Graf Platin rainwater tank
- Graf telescopic shaft + lid (standard)
- Graf minimax filter package

Car Package

Includes:

- Graf Platin rainwater tank
- Graf telescopic shaft & cast iron lid - car type B

Car & Filter Package

Includes:

- Graf Platin rainwater tank
- Graf telescopic shaft & cast iron lid - car type B
- Graf minimax filter package

Accessories

1908906	Graf extension riser
1908967	Platin interconnect tank seal*

*One per tank when joining more than one tank together.

Graf Carat

Designed from the ground up

Whether you are environmentally conscious or a proud gardener, the unique underground design of the Graf Carat enables you to completely eliminate the water tank from view. To ensure the integrity and long life of every tank, Graf utilises advanced production technologies and quality standards.

Injection moulded using the world's largest injection moulding machine the German designed and manufactured Graf Carat is exported worldwide. The unique two-piece design of the Carat range provides unbeatable strength and stability – all supported by a full 18 year warranty.

Each tank is made from Duralen, a tough, high quality material that is extremely rigid and impact resistant. Aside from being light and easy to work with, Duralen is also recyclable, which is good for the environment.

Carat tanks can be assembled in only a few minutes without screws or bolts. The adjustable shaft allows the installer to easily mount the manhole at the finished ground level, minimising visual impact. Besides the aesthetic advantages, Carat tanks can be installed just about anywhere, even under your driveway. Plus, the superior filtration allows the rainwater to be used in many applications around the house and garden.

Comes in 2 halves which sit neatly inside each other, making it easy to transport and handle



The tank dome rotates to easily align plumbing and electrical connections

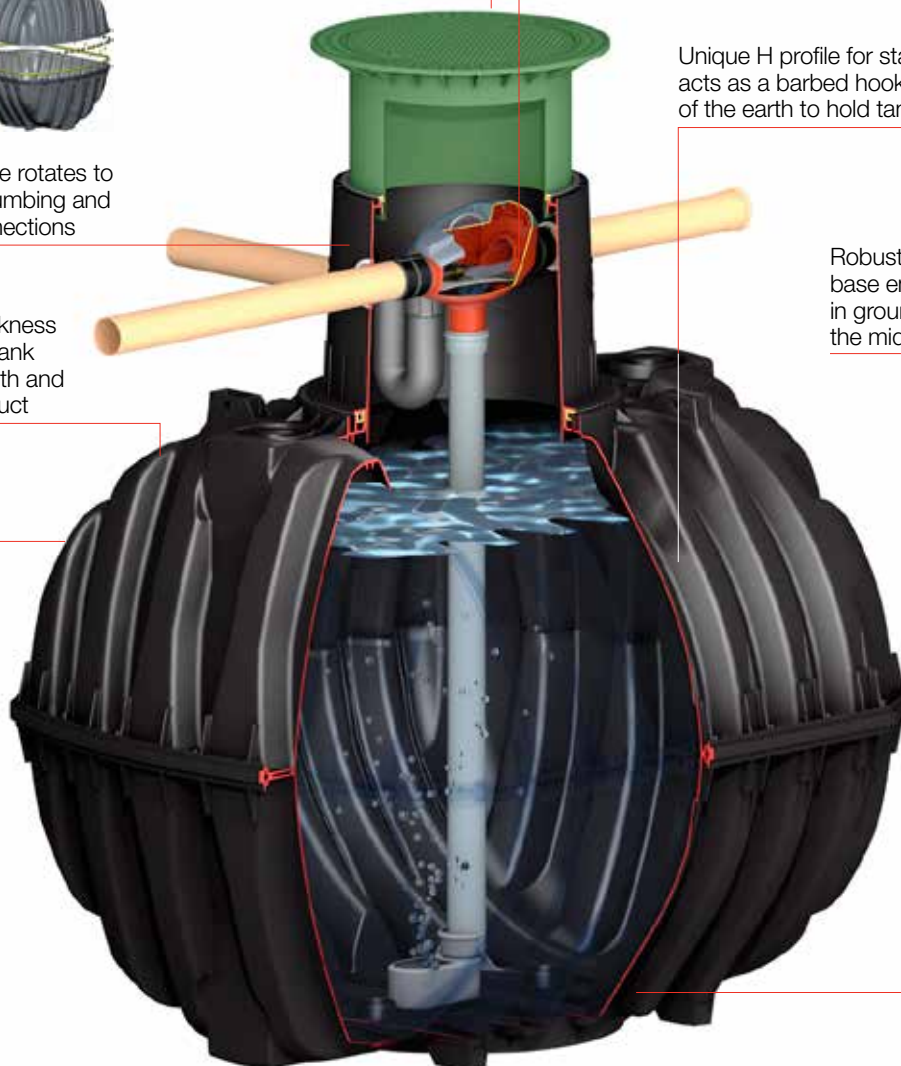
Equal wall thickness in all areas of tank adds to strength and quality of product

Telescopic lid sits flush with ground level

Minimax Filter System

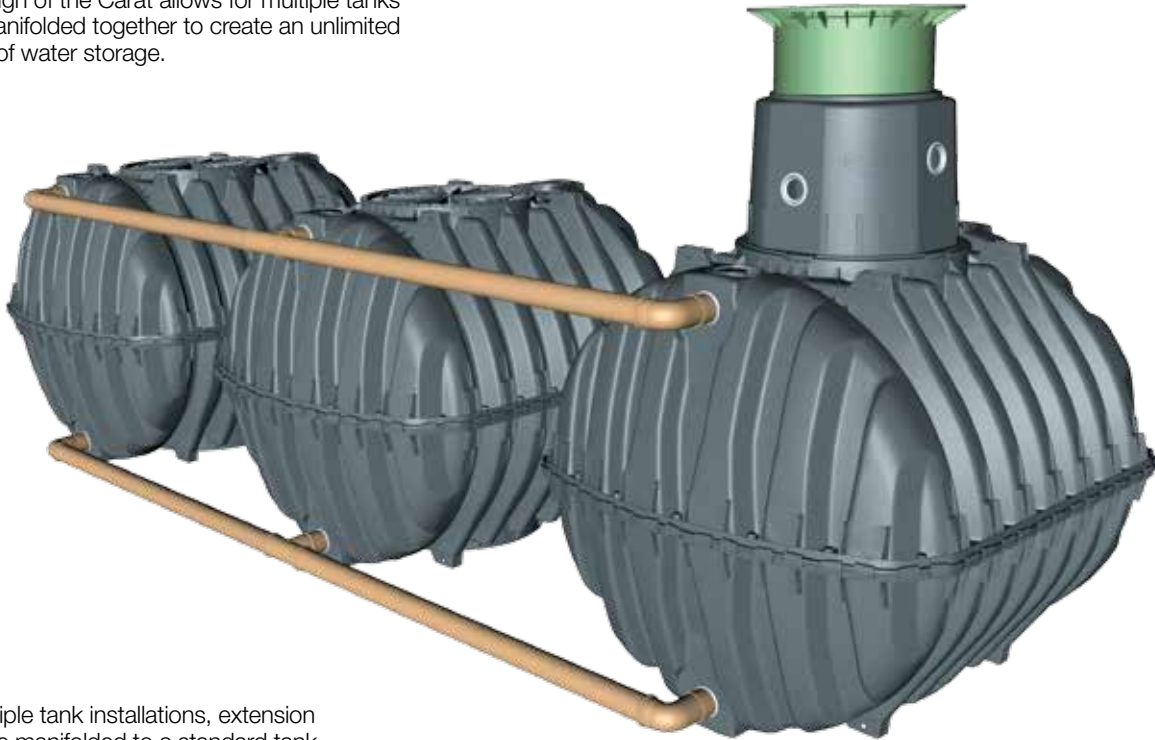
Unique H profile for stability and security acts as a barbed hook using the weight of the earth to hold tank in place

Robust ribbed tank base enables installation in groundwater up to the middle of the tank



Unlimited Storage

The design of the Carat allows for multiple tanks to be manifolded together to create an unlimited volume of water storage.



For multiple tank installations, extension tanks are manifolded to a standard tank.

Logistical advantages of the Carat

Up to 8 times more tank volume per truck / container.

The Carat tank consists of two half shells which can be stacked on top of each other, allowing multiple tanks to be stacked on a single pallet for shipping. For example, it is possible to stack five 6500 litre or nine 2700 litre Carat tanks on a single pallet. This allows a standard 40ft. shipping container to house a total tank volume of up to 170 000 litres. The tanks unique stacking feature directly reduces transport costs and environmental impact from vehicle emissions.



Graf Carat

The Carat tank range is available in a choice of four different sizes ranging from 2,700L through to 6,500L. The modular system allows multiple tanks to be used in combination, so your storage capacity can be increased. When deciding on tank sizes, it's important to first calculate your total household requirements. Your water rates notice will give you a good indication of your current usage.

Factors which determine rainwater tank size:

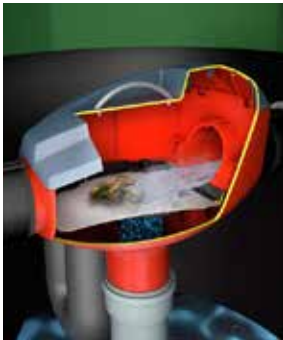
1. Local rainfall pattern.
2. Roof catchment area and location of downpipes.
3. Demand for water.

1mm of rain on 1 square metre of roof = 1 litre of water



Certified to AS1546.1
Complies with HB230 Guidelines

Filters



Minimax Filter

Designed with a minimal height offset between the inlet and outlet, this is a great option where there is minimal fall in the storm water pipes. This mosquito proof filter provides over 95% water yield.

- Can manage roof areas up to 350sqm
- Standard 100mm connections
- Only 10mm height offset between the inlet and outlet
- Optional Opticlean spray cleaning unit (reduces maintenance requirements)
- Filter insert mesh width 0.35mm

The Minimax is best suited where the ground is flat or a mosquito proof filter is required.



Internal Extension Tank Filter

The internal extension tank filter is used when connecting multiple tanks as a secondary filter to ensure pristine water in the sealed Graf extension tanks.

- For use as an internal filter installed within the main tank between manifolded tanks
- Sieve mesh width 0.35mm
- DN 100 connection

Note: Extension Tank Installation (require one per installation, not one per tank.)

Shafts & Lids



Telescopic shaft and lid (standard)

This standard shaft and lid is specifically designed for non-vehicle loading which makes it ideal for general garden use. The shaft can be adjusted from 140mm to 340mm and tilted up to 5° to make installation to finished ground level easy. Includes a tough, long lasting child proof lockable PE lid.

Maximum weight: 150kg



Telescopic shaft and lid (Car - Type B)

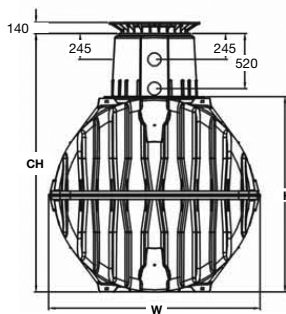
Designed specifically to cope with the weight of passenger vehicles, this shaft can be adjusted from 140mm - 440mm and tilted up to 5° to sit flush with the ground level. Includes a child safe cast iron lid.

Maximum weight: 3.5 tonnes Gross Vehicle Mass

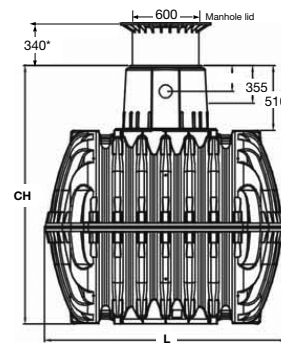
Technical data

Graf Carat Tank	2700 litres	3750 litres	4800 litres	6500 litres
Weight	120kg	150kg	185kg	220kg
L	2080mm	2280mm	2280mm	2390mm
W	1565mm	1755mm	1985mm	2190mm
H	1400mm	1590mm	1820mm	2100mm
*CH	2010mm	2200mm	2430mm	2710mm
Minimum Hole Size (L x W x H)	2680 x 2165 x 2300mm	2880 x 2355 x 2490mm	2880 x 2585 x 2720mm	2990 x 2790 x 3000mm

* CH = Combined height of Graf tank and dome – excluding adjustable telescopic shaft



End elevation of
Carat water tank



Side elevation of
Carat water tank

* Measurements shown is for standard telescopic shaft. For the vehicle telescopic shaft, measurement is 440mm

Tanks / Packages

9505928	Graf Carat Tank Standard Package	2700L
9505930	Graf Carat Tank Standard Package	3750L
9505932	Graf Carat Tank Standard Package	4800L
9505934	Graf Carat Tank Standard Package	6500L
9505920	Graf Carat Tank Standard & Filter Package	2700L
9505922	Graf Carat Tank Standard & Filter Package	3750L
9505924	Graf Carat Tank Standard & Filter Package	4800L
9505926	Graf Carat Tank Standard & Filter Package	6500L
9505929	Graf Carat Tank (Car) Package	2700L
9505931	Graf Carat Tank (Car) Package	3750L
9505933	Graf Carat Tank (Car) Package	4800L
9505935	Graf Carat Tank (Car) Package	6500L
9505921	Graf Carat Tank (Car) & Filter Package	2700L
9505923	Graf Carat Tank (Car) & Filter Package	3750L
9505925	Graf Carat Tank (Car) & Filter Package	4800L
9505927	Graf Carat Tank (Car) & Filter Package	6500L
9505936	Graf Carat Extension Tank	2700L
9505937	Graf Carat Extension Tank	3750L
9505938	Graf Carat Extension Tank	4800L
9505939	Graf Carat Extension Tank	6500L

Standard Package

Includes:

- Graf Carat rainwater tank
- Graf telescopic shaft + lid (standard)

Standard & Filter Package

Includes:

- Graf Carat rainwater tank
- Graf telescopic shaft + lid (standard)
- Graf minimax filter package

Car Package

Includes:

- Graf Carat rainwater tank
- Graf telescopic shaft & cast iron lid - car type B

Car & Filter Package

Includes:

- Graf Carat rainwater tank
- Graf telescopic shaft & cast iron lid - car type B
- Graf minimax filter package

Accessories

1908906	Graf extension riser
9501253	Graf internal extension tank filter

Graf system accessories

External filtration options for Carat and Platin

External filters are ideal where larger roofs are being connected or where access to an integrated filter is undesirable.

Extension Riser

1908906



The optional extension riser is for use with any of the telescopic dome shafts to increase the height of the lid. Ideal for areas with low storm water pipes, areas prone to freezing and where an existing hole is too deep.

Risers adjust to a maximum of 360mm. Use a maximum of two risers. Always refer to installation instructions when using this item.

External Filter - Optimax

9505941



- Provides over 95% water yield
- Variable installation depth (570mm – 1050mm)
- Lockable, child-proof cover
- Minimal height offset (200mm) between inlet and outlet

- Maximum roof area of 350sqm with DN 100 connections and 750sqm with DN 150
- Optional Opticlean cleaning unit
- Filter insert mesh width 0.35mm

External Filter - Universal

9505940



- 100% water yield
- Variable installation depth (570mm – 1050mm)
- Lockable, child-proof cover
- Minimal height offset (270mm) between inlet and outlet

- Maximum roof area of 350sqm with DN 100 connections and 500sqm with DN 150
- Filter insert mesh width 0.35mm

Internal Extension Tank Filter - For Carat tank only

9501253



The internal extension tank filter is used when connecting multiple tanks as a secondary filter to ensure pristine water in the sealed Graf extension tanks.

- For use as an internal filter installed within the main tank between manifolded tanks

- Sieve mesh width 0.35mm
- DN 100 connection

Note: Extension Tank Installation (require one per installation)

Opticlean Spray Cleaner

1908935



The Opticlean cleaning unit provides 16 intense water jets for cleaning Minimax Pro Filter Cartridge. Can be used manually to spray the filter to clear the top of the filter from debris (leaves).

Red Interconnect Seal for Platin Tank

1908967



Used when joining two or more Graf Platin Rainwater Tanks together. One seal is required per tank.

Pumps

The pump you choose will need to deliver suitable pressure for all your applications around the home. If you're using tank water for both garden and household applications, a larger capacity pump will be needed. If you're only using tank water for your garden, then a smaller capacity pump can be used.

Should your installation have different requirements, please contact your nearest Reece branch regarding other pump options.

Home Option

9501386



Coupled with the Vada Rain2Main, the Vada V75-S pump is the premium automatic rainwater control system. The V75-S is designed for many years of reliable service where absolute silence, high pressure and solid reliability are required. The Vada V75-S pump sits inside the tank while the Vada Rain2Main component is mounted outside the tank. If the tank is empty, the Vada Rain2Main will revert to mains supply.

- 24 month warranty
- Maximum working pressure: 500 kPa

Applications:

Supply toilet(s), washing machines, garden taps, sprinklers and irrigation systems.

9501393

Vada Rain2Main Wall Mount Accessory Kit

For use with the V75-S submersible pump for remote mounting of the Rain2Main Unit

Garden Option

9500736



Designed specifically to lift water from below ground sources, the Vada V90-J Jet pumps are reliable and highly economical pressure systems. Complete with dry run protection and pressure control, the Vada V90-J Jet pump is ideal for all your home garden irrigation needs.

- Easy installation
- 24 month warranty
- IP44 Protection
- External tank use only

Applications:

Garden taps and irrigation systems.



Don't risk it, use a licensed plumber.™

Reece. Works for you.™

Call **1800 032 566** or visit **www.reece.com.au** for your nearest Reece store.

The manufacturer/distributor reserves the right to vary specifications or delete models from their range without prior notification. The manufacturer/distributor takes no responsibility for printing errors.

All products enjoy a product replacement warranty. For full warranty details visit www.reece.com.au/productquality

V2 [BROCHURE CODE 1908953]



Printed on Australian made, Precision Laser.

