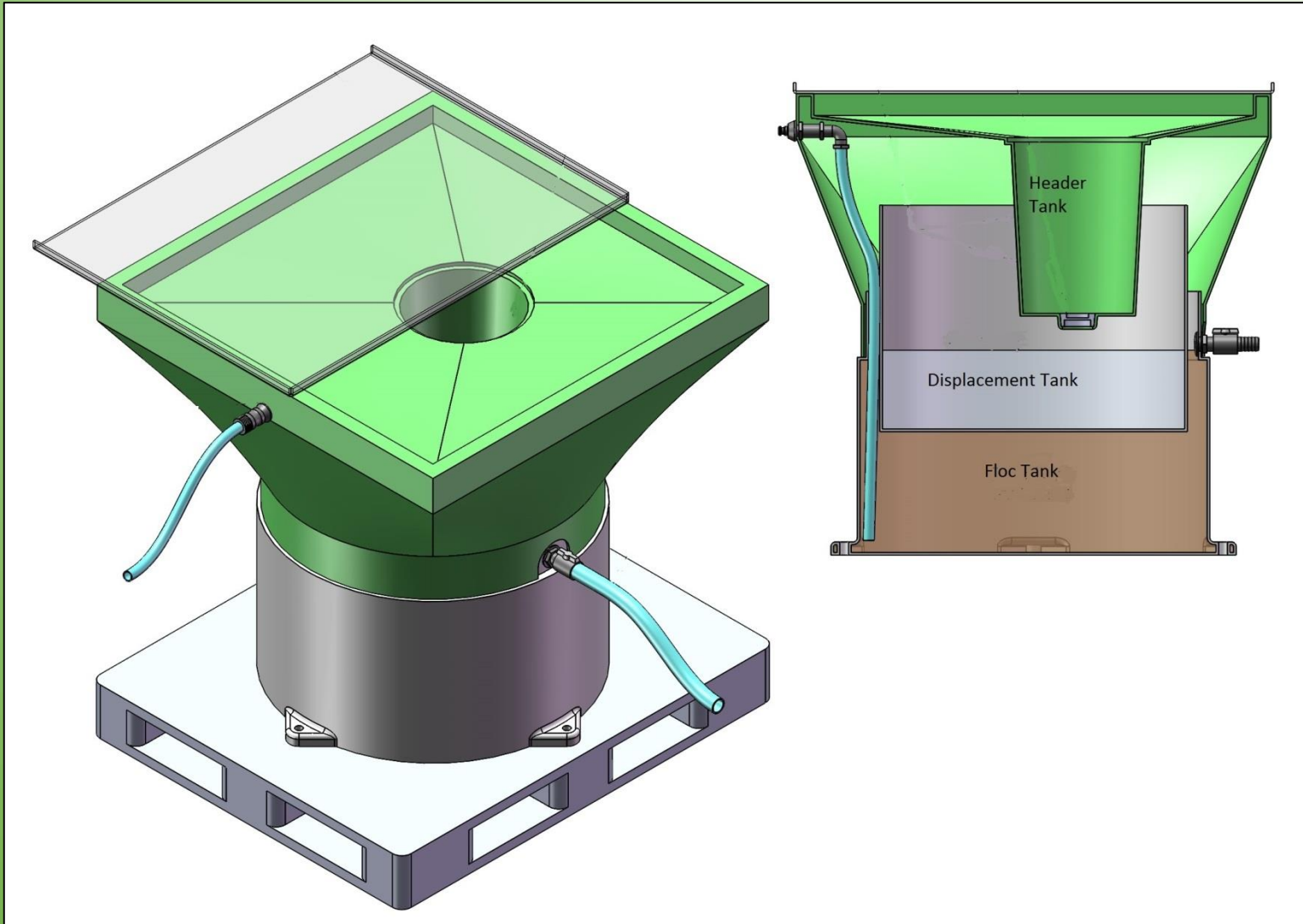


# The Floc Box™



# Distinctive Features





## Weight, Manoeuvrability and Durability

The Floc Box™ comes in three sizes depending on the catchment area and tank requirements. It comes in 75, 200 and 400 L units.

The Floc Box™, when fully assembled, weighs 20, 45 and 90 kg and are easily moved by two people. This means they do not require heavy machinery to be located and are simple to reposition. A ute or trailer and a portable pump with a long hose is all that is needed to set up a Floc Box™. By removing the need for heavy machinery, it increases the safety of workers on site.

The added manoeuvrability however does not affect its durability, being constructed out of tough medium density polyethylene by an ISO accredited manufacturer means the Floc Box™ is tough and lightweight.





## Setup

One of the main reasons Erosion Control investigated producing an alternative to the timber shed was due to the setup. The Floc Box™ can be fully assembled by Erosion Control Co Ltd prior to shipping, including roof tray and header tank. On site once the Floc Box™ has been placed and levelled, final set up involves adding the flocculent to the tank and attaching the correct length of dosing hose. We can be in and out of a site within an hour.

Because the Floc Box's™ fittings all come as standard 18 mm hose fittings it can be filled with flocculent using a petrol pump. This means that the Floc Box™ can be setup on small tricky sites and be filled from a large distance away with a long hose.



## Ease of Maintenance and Longevity

The principles of maintaining a Floc Box™ is similar in maintaining a TP90 timber floc shed, however the chance of leaking roofs and plumbing are minimised thanks to it coming as a single rotomoulded unit.

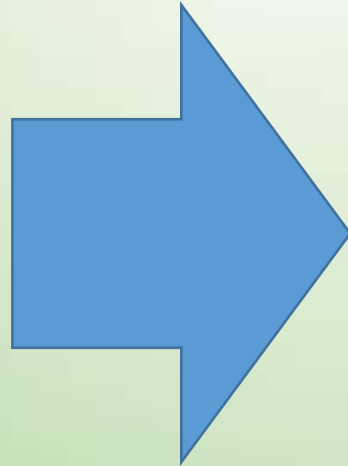
Has your catchment area changed? No problem. Adjusting the roof on the Floc Box™ is as simple as moving the extension roof (supplied). The area of the roof can be either enlarged or reduced and the location of the header tank holes can be moved to accommodate the size of the catchment. This means a single Floc Box™ is a very flexible piece of equipment that can be reused over multiple sites. The Floc Box's™ fittings are also standard 18 mm hose fittings, allowing easy compatibility to pumps and siphons.



**Aesthetics and the Environment.** The Floc Box™ improves on the ability of rainfall activated flocculent dosing, greatly minimising the size all while looking professional. The green roof and opaque tank was chosen to show Erosion Control Co Ltd's focus for the environment and greener technologies whereas the white plastic bottom allows the flocculent level to be easily viewed identifying when top ups are required. Manufacturing via rotomoulding ensures the outer housing of the catchment tray and flocculent chamber fit snugly. The minimal tolerance between the inner displacement tank and the chemical chamber ensure maximum utilisation of stored flocculent. Being Recyclable is a great plus.

# Difficult Challenges





**Raising the Bar of the Industry Standard** Erosion Control Co Ltd is a Auckland and Hamilton based business that originally dealt primarily with hydroseeding, hay mulching and revegetation projects. This naturally evolved into the flocculent business through a good understanding of sediment and erosion control. After dealing with a few timber shed setup and installs it was quickly noted that this was actually a really arduous task and could be massively simplified. Rainfall activated systems are theoretically quite ingenious and simple so why can't the units be simple to? The difficulty for Erosion Control Co Ltd however was in simplifying and minimising the timber sheds into a much more user friendly model while keeping pricing competitive.





# Rotomoulding



Rotational moulding (rotomoulding) is a technology which allows the production of hollow, single piece parts from plastic. The Floc Box™ comes rotomoulded from an ISO 9001 accredited manufacturer in New Zealand. Powdered plastic is placed into a mould which is then rotated, heated, and cooled. As it heats the plastic melts out and conforms to the shape of the mould. Once the plastic has cooled it is removed from the mould as a single piece. The Floc Box™ is rotomoulded using a high quality medium density polyethylene complete with a high spec UV package and is manufactured by ARMoulding to the highest quality standards. The end result is a tough, UV and weather resistant product that has been engineered to withstand the harsh environment of the NZ and AUS climates as well as stand up to the handling it can undergo on the earthworks site.

# Special accomplishments



“Prior to the arrival of the Floc Box™ the set up and installation of a flocculation shed was an involved 1-2 day process. The installation required numerous parts from various suppliers and was labour intensive, often requiring the assistance of an excavator to position the shed. Erosion Control’s Floc Box™ can be located on site quickly and safely with simple manual lifting without the need for machinery. The catchment tray and header tank pre-sized prior to delivery. The Floc Box™ has enabled us to locate rainfall activated dosing systems in steep terrain catchments and areas that otherwise would have not been possible or extremely difficult. When coupled with Erosion Control’s bench testing, chemical supply and on-going technical support this has given us the peace of mind that we are achieving the optimum outcome in relation to our water quality requirements.”

Simon Cathcart, National Environmental Manager, HEB Construction Ltd

## Overtaking the Market and Overwhelming Positive Feedback

To date Erosion Control Co Ltd has sold over 200 Floc Box’s™ to a number of different clients. This is a huge amount and we are glad to be making waves in the earthworks area. We have received overwhelming positive feedback about the Floc Box™.



# Revolutionary Floc Box to be trialled in Peregian

1st Mar 2016 9:00 PM

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## Going International

New Zealand and in particular the Auckland region has widely recognised overseas as a leader and inovator in sediment and erosion control practices. Now with a distribution agreement with turbid stormwater solutions based in Brsbane we have further developed knowledge sharing on best practice with our friends across the Tasman.



## Providing a Practical Solution for DEB's and Small (<0.3 Ha) Catchments

Decanting earth bunds (DEB's) have nearly always been batch dosed after a large rainfall event. The problem with this is that during a rainfall event there has been no time to allow sedimentation. Once the level of the water rises above that of the bund, which can happen during a high intensity rainfall event, the sediment laden water discharges before batch dosing can occur. To combat this a mini version of the Floc Box™ was produced which allows rainfall activated dosing of areas that require only small amounts of flocculant.

