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Note: Where gutters are stretched out or out of square it may be necessary to rivet the Outlet #4 to the gutter. Take care to ensure the Outlet #4 is sealed to the gutter in all situations.

- STEP 1:** Remove the existing Gutter Outlet from the roof guttering system.
- STEP 2:** Hold the new Gutter Outlet #4 against the fascia and against the bottom of the gutter where the new outlet hole is to be, then using the gutter outlet as a template, draw around the inside of the outlet to mark the underside of the gutter for the new hole and cut out with tin snips.
- STEP 3:** Refit the Gutter Outlet #4 to the main body #1 and place a small amount of sealant in the sealant groove in #4.
- STEP 4:** Slide the Leaf Beater® up against the fascia and position the Outlet #4 over the gutter hole and fasten the unit to the fascia with two rivets or screws through the back of the body #1 and into the fascia.
- STEP 5:** The Leaf Beater® is now ready for connection to the downpipe. Do NOT glue the Leaf Beater® to the downpipe. SECURE with a screw for easy replacement.
- STEP 6:** Refit the Secondary Screen #3 (for all 'wet' systems), then refit the Primary Screen #2 and set on position 'A'. Observe the performance of the Leaf Beater® during an average rainfall and adjust down notch by notch until the best operating setting is achieved.

INSTALLATION AT GUTTER

- The Leaf Beater® consists of 4 main parts:
- 1 Main body
 - 2 Primary Screen (6mm aperture Stainless Steel)
 - 3 Secondary Screen (Stainless Steel Mozzie Screen of 0.955mm aperture)
 - 4 Gutter Outlet (designed to improve the flow of water from the gutter)

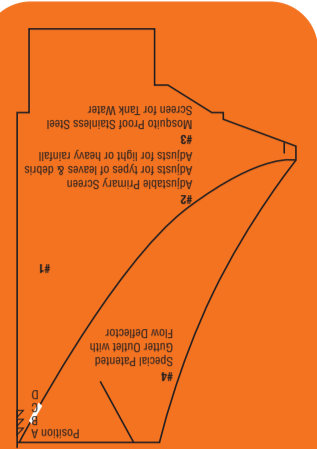
To improve access for cleaning, Leaf Beater® Rain Heads can be mounted down the wall at a convenient height. When 'pushing water' over long runs and depending on the volume of rain water required to be moved, the Rain Head may need to be mid-mounted more than 1.2m above the discharge point.

It is important to note that when mid-mounting, the flow directional benefits of the rectangular gutter outlet supplied with the Leaf Beater® will be lost. However this is to be balanced with the benefits gained from easier access for maintenance.

For mid-mounting, discard the top flow-directional gutter outlet. Cut the entry downpipe at about 60°, allowing 50mm clearance between the pipe and the primary screen. This ensures the end of the pipe is parallel to the screen and helps direct the water onto the face of the screen most effectively.



MID-MOUNT INSTALLATION



- Prevents leaves and debris from blocking downpipes and entering your rainwater tank
- Improves tank water quality and reduces maintenance
- Prevents backflow of water into gutters and eaves
- Includes stainless steel mosquito screen
- Screen adjusts for various debris and rainfall
- Compact Rain Head ideal for small areas
- Easy to paint

Keeps your Rain Harvesting System free of mosquitoes, vermin and debris!

leaf beater®

RAIN HEADS



HANDY HINTS

Fitting Gutters

For best results, gutters should be fitted in accordance with the correct Building Code with a sufficient number of outlets/downpipes provided. If fitting new gutters, ensure that the fall is away from the corners where possible. If the water has to flow around a corner, leaves will invariably jam up at that point.

Painting your Leaf Beater®

The main body of the Leaf Beater® is made from lead-free PVC and can be painted to complement the building. For best results wash down with methylated/white spirit and then spray paint.

Secondary Screen

The area of the fine secondary screen is insufficient to allow high volume flow rates. It should only be used as an insect proof screen in conjunction with 'wet' systems, or when connected to a downpipe that supplies a low volume of water or when a low flow rate is required. If higher flow rates or a larger area screen are required, use a Leaf Eater® Rain Head.

CLEANING

The primary screen of the Leaf Beater® is mostly self-cleaning, but from time to time, leaves may become jammed. Simply remove leaves with a brush. Check the Mozzie Screen periodically to ensure it is clear, and hose or brush off if necessary. For high volume flow rates it will need to be cleaned more often.

PROTECTING THE HOME

General stormwater application

Blocked gutters can cause flooding to the eaves into the wall cavity of the home. Leaf Beater® Rain Heads help ensure gutters and downpipes do not block up with leaves and debris. If the Leaf Beater® is being used in this manner to protect the home and rainwater is not being collected in tanks, the secondary stainless steel screen (Mozzie Screen) can be removed.

Reduced fire risk

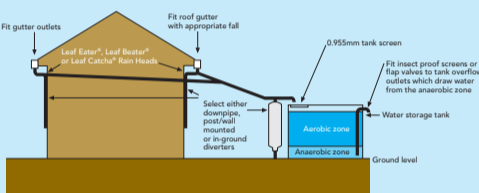
Leaves and debris that build up in gutters can be flammable and represent a significant fire risk. By screening leaves onto the ground, the Leaf Beater® prevents gutters from blocking and eliminates a fire hazard.

Preferable Rain Harvesting Systems

To deliver optimum results, it is advisable to install a Rain Harvesting System that incorporates Rain Heads and a gutter mesh system (such as Blue Mountain Mesh™) to deflect leaves and debris and keep gutters dry, as well as a first flush water diverter and insect proof screens.

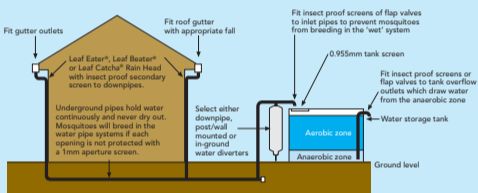
'Dry' Systems

When pipes run direct from the gutter into the tank (not underground) they will drain and dry out. 'Dry' systems are preferable to 'wet' systems. Wherever possible, and especially with multi-level buildings, install 'dry' systems and fit a standard tank screen with 1mm aperture at the downpipe entry to the tank. This allows the removal of the secondary stainless steel screen (included with the Leaf Beater® Rain Head) to help the Rain Head perform better.



'Wet' Systems

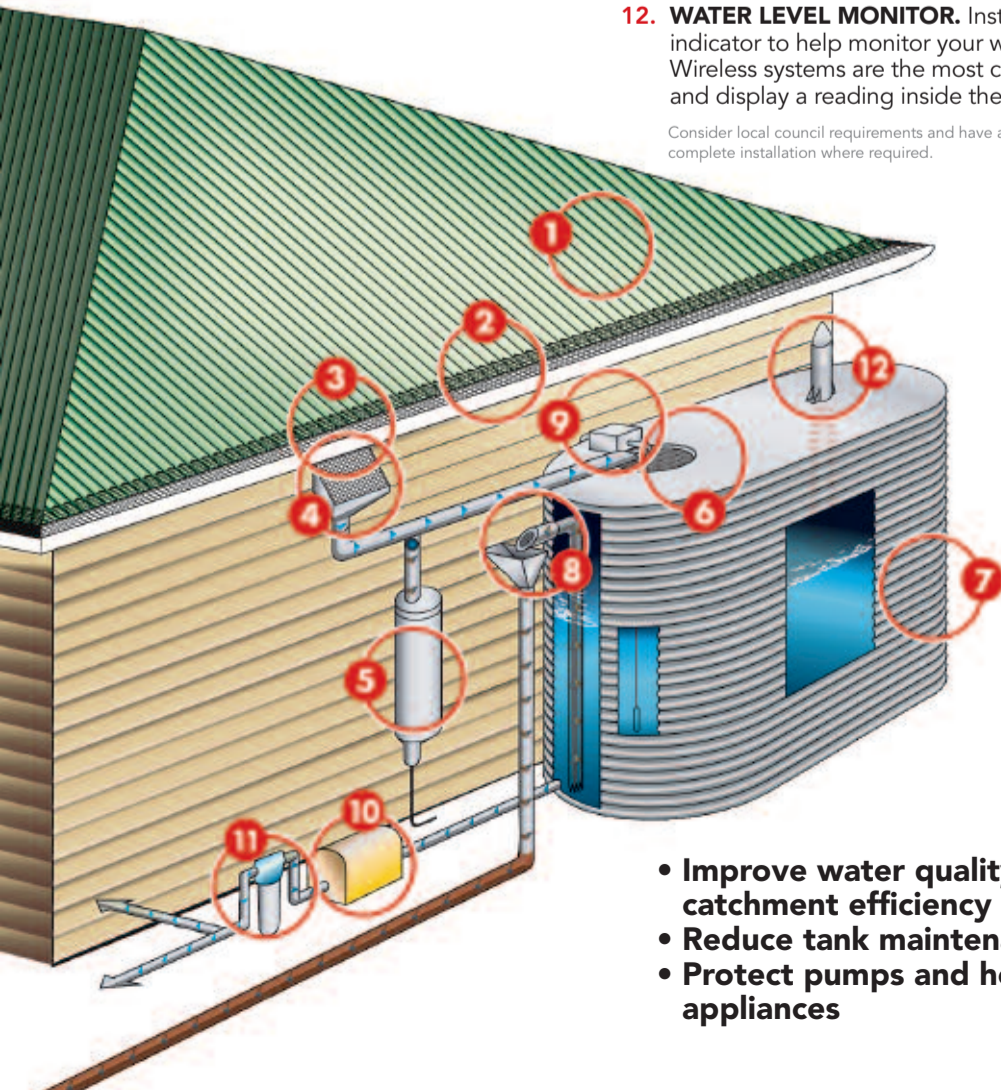
When pipes go underground and then up to the tank, they will inevitably hold water after it rains. Legislation broadly says that when pipes hold water in this way, they must be screened with a non-corrosive screen of a maximum 1mm aperture, to prevent the entry of mosquitoes and vermin. Mosquitoes are known to be responsible for many diseases including Dengue Fever and Ross River Fever. The secondary stainless steel screen included with the Leaf Beater® Rain Head must remain in place in a 'wet' system, and is designed to meet all legislative guidelines. 'Wet' systems can be converted to 'dry' systems by installing an in-ground water diverter that not only diverts the first flush of contaminated water from the roof, but also drains water from the underground pipe system on a sloping site. (For more information, visit www.rainharvesting.com.au).



How to create the complete Rain Harvesting system

1. Check **ROOF SURFACE** is suitable for collecting quality rainwater.
2. Install **GUTTER MESH** (such as Blue Mountain Mesh™) to prevent leaves and debris from blocking gutters.
3. Fit **GUTTER OUTLETS** from the underside of the gutter to prevent obstruction of water flow.
4. Fit Leaf Eater® or Leaf Beater® **RAIN HEADS** to downpipes to stop downpipes blocking. Rain Heads deflect leaves and debris and keep mosquitoes out of pipes that hold water ('wet' systems).
5. Install **WATER DIVERTER/S** to prevent the first flush of most contaminated rainwater from entering the tank.
6. Ensure a **TANK SCREEN** is installed at tank entry point to keep mosquitoes and pests out.
7. Choose a **WATER TANK**. Consider annual rainfall, roof catchment area and water usage when determining its size.
8. Attach **INSECT PROOF SCREENS** or **FLAP VALVES** to the end of all pipes to the tank screen (for 'wet' systems) and to **TANK OVERFLOW OUTLETS** to keep mosquitoes and pests out and ensure the tank is vented properly.
9. Utilise a **TANK 'TOP UP'** system (if required) to automatically top up the tank with mains water when levels fall to a designated minimum level.
10. Select a **PUMP SYSTEM** (if required) to distribute water for use inside or outside the home.
11. **RAINWATER FILTER**. Fit a purpose designed rainwater filter after the pump to help reduce residual sediment, colour and odour.
12. **WATER LEVEL MONITOR**. Install a level indicator to help monitor your water usage. Wireless systems are the most convenient and display a reading inside the home.

Consider local council requirements and have a plumber complete installation where required.



- Improve water quality and catchment efficiency
- Reduce tank maintenance
- Protect pumps and household appliances