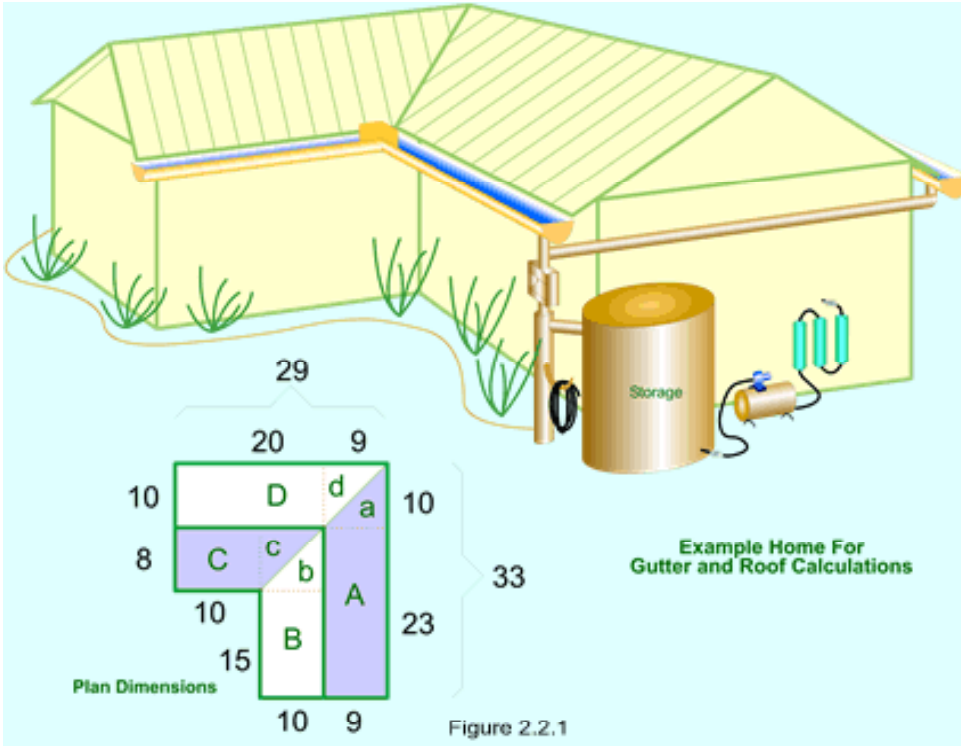


# Plan now for rainwater harvesting



## Calculating Area

Calculate roof top size in square feet  
 $A=L \times W$  area of a rectangle  
 $C= \frac{1}{2} AB$  area of a triangle

## How much rainwater can I harvest?

A 1000 square foot roof delivers 620 gallons of rainwater for every inch of rainfall. In the bay area we usually get up to 20 inches of rainfall during the rainy season. Now you can do the math for your roof.

## First Flush

Depending on site conditions, between 1 and 10 gallons is "flushed" for every 1000 sq ft of catchment surface.

## Sizing first flush chamber

4" pipe holds .55 gallons per foot  
 3" pipe holds .30 gallons per foot  
 $(\text{Pi} \times \text{radius squared} \times \text{length of pipe} \times 12 = \text{cubic inches} / 277.42 = \text{gallons})$   
 ex  $3.14 \times (2 \times 2) \times 10 \times 12 = 15072 / 277.42 = 5.43$

## Catchment options

- Rainwater H<sub>2</sub>O
- Rain barrel
- Bushman Tanks
- Metal Tanks
- Large-capacity direct burial tanks

## Down spout connection options

See samples

**Over flow** to be diverted back into your drainage system or to special place in garden to recharge your local watershed.

## Delivery options

Basic—gravity flow average of 5psi. Connect drip tape to surface catchment container and manually turn valve on and off

Moderate—use pump attached to surface catchment container and standard drip system and manually turn pump on and off.

Standard—this system usually requires more water containment as this system tends to use more water. Use Ecotronic pump with along with valves and an irrigation controller and standard drip system.



The Urban Farmer Store's

## 3" First Flush Diverter Kit

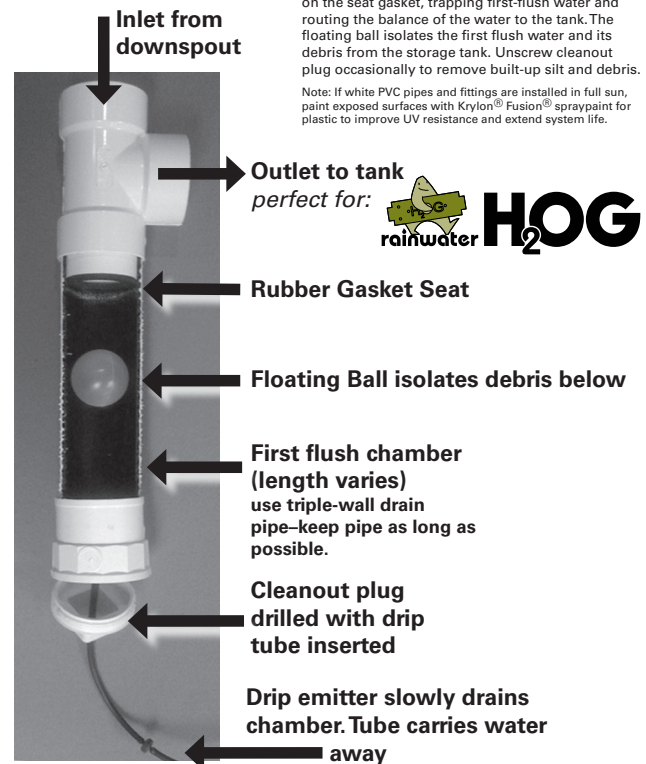
for rainwater harvesting applications

part #  
FFKIT

Kit includes everything except the pipe

As the chamber fills, the ball floats up and seals on the seat gasket, trapping first-flush water and routing the balance of the water to the tank. The floating ball isolates the first flush water and its debris from the storage tank. Unscrew cleanout plug occasionally to remove built-up silt and debris.

Note: If white PVC pipes and fittings are installed in full sun, paint exposed surfaces with Krylon® Fusion® spraypaint for plastic to improve UV resistance and extend system life.



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Next door to Sloat Garden Center

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