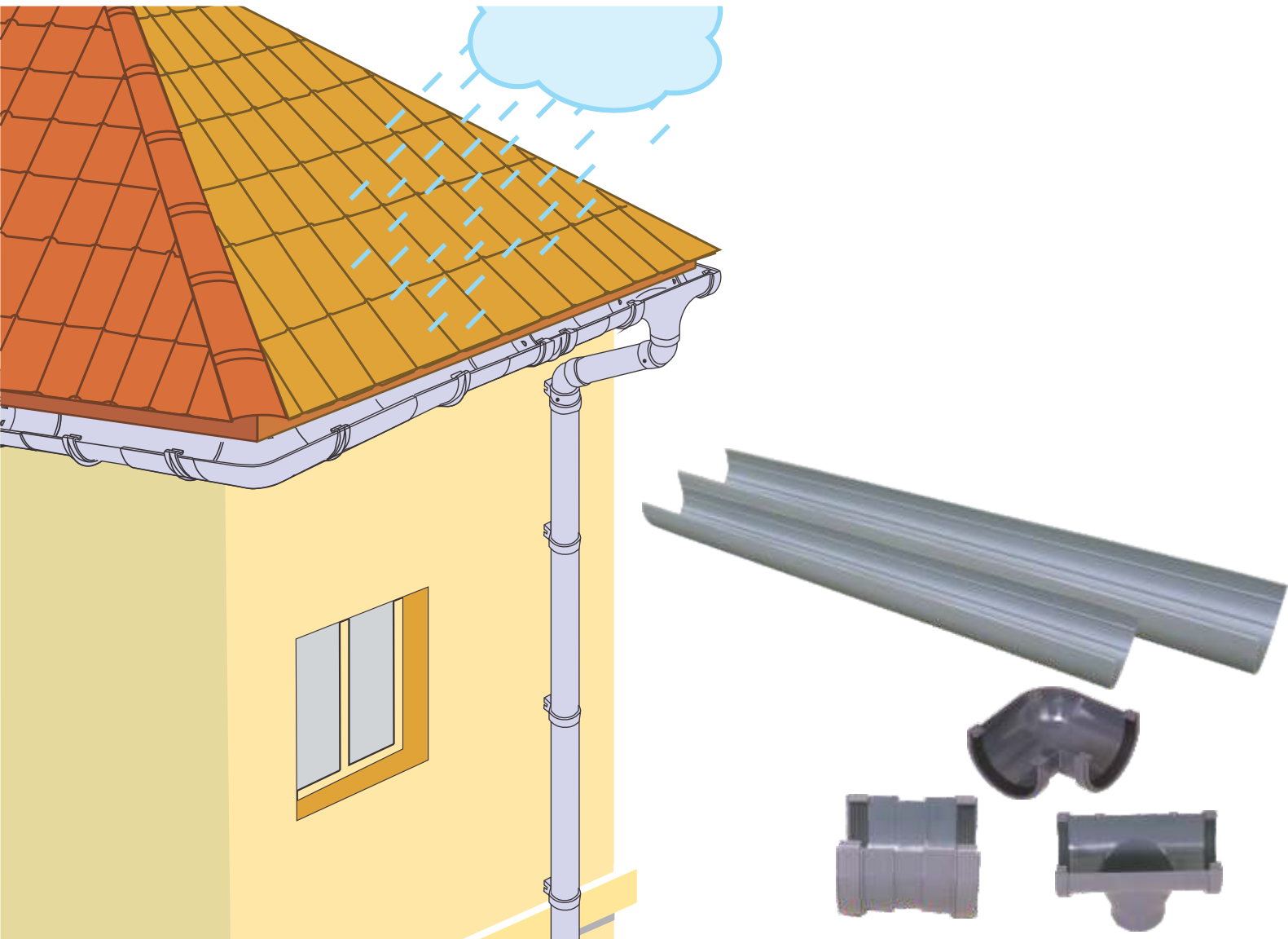


## **Rainbow**<sup>®</sup> Roof Gutter System

The Supreme Industries Ltd., is an acknowledged leader of India's plastic industry. It is credited with pioneering several path breaking products and has valuable experience in providing innovative and cost effective piping solution. The innovative product portfolio offered by Supreme is extensive in range and application and comprises a variety of pipes and a vast spectrum of fittings totaling around 7000 diverse products. Together these constitute the most comprehensive range in the industry that caters to almost every conceivable need and application.

In our endeavor for newer developments, yet another excellent product has been developed for rainwater collection i.e. "Rainbow" roof gutter system. Considering customer needs and expectations, and the rainfall pattern across the country, "Rainbow" roof gutter system is an example of well-designed product for rainwater collection.



**Jeevan bhar ka saath...**

## INTRODUCTION

Rainwater harvesting and conservation has been an age-old practice adopted in the country in various regions. However, as a result of urbanization and paucity of rains, the availability of water has reduced and there is an urgent need for harvesting and conserving rainwater, which is the only natural source.

In the system of rainwater harvesting and conservation, the rainwater is collected through a system of pipes and fittings instead of allowing it to be disposed off into the drains. Collected rainwater is either stored in the tanks and reused or, fed into exiting aquifers for groundwater recharging.

Several state governments have introduced laws by which rainwater harvesting and conservation has become mandatory in all new buildings with plinth area of 100 sq. meters or more. As a consequence many architects are making provision in the designs for future works for the same.

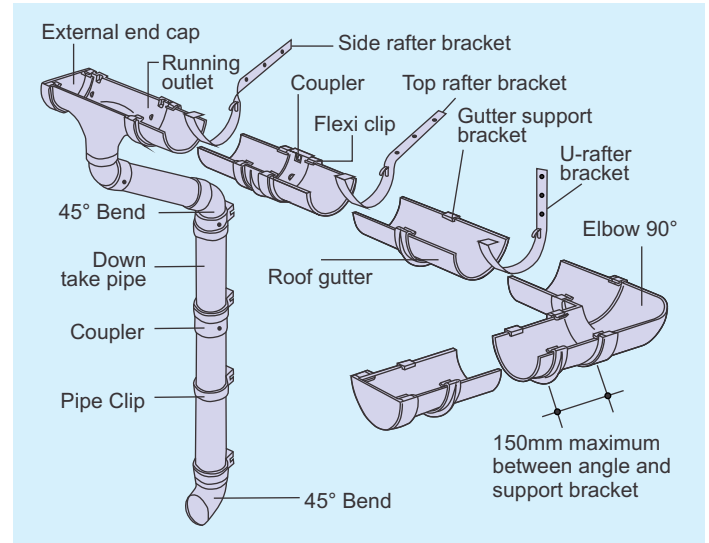
To summaries, the rainwater harvesting and conservation for flat roof building and open spaces can be accomplished from our exiting range of pipes and fittings. For sloping roof we are introducing specially designed unique "Rainbow" roof gutter system in 150 mm size. Very soon we are also going to introduce rainwater harvesting filters to make the system complete.

## THE SYSTEM

Supreme Rainbow roof gutter system is latest in design, look and featured with many advantages. This system is made from uPVC and comprises specially designed profiles (gutters), different types of fittings, clamps and accessories. Gutters and fittings are specially designed to meet the requirements of all types of sloped roofs buildings.

Unlike other systems, Rainbow is not exactly half cut system, but designed to give maximum flow with necessary freeboard. It means there is no possibility of spilling or overflow in spite of high flow carrying capacity. Rainbow is a classic 150 mm size very large capacity rainwater system, suitable for 310 m<sup>2</sup> roof area with one down pipe. It connects to 110 mm (4") circular down-pipe. Rainbow roof gutters are designed with longitudinal ribs for adequate strength and dimensional stability. The system is provided with specially designed rubber seals to give totally leak proof joints. This system is produced and tested as per European standard EN 607. This high quality roof gutter system is easy to install with brackets and clamps, which guarantee tight fit /watertight joints.

## COMPONENTS OF RAINBOW ROOF GUTTER SYSTEM



## FEATURES AND BENEFITS

**Unique design** - This system is specially designed to accommodate high flow rates without overflow of rainwater at the time of heavy rainfall.

**Strong and Durable** - Rainbow roof gutter are provided with longitudinal ribs along the length and makes it strong and durable.

**High flow carrying capacity** - due to excellent hydraulic properties and large cross sectional area the carrying capacity of this system is much higher.

**Easy and fast installation** - Being light in weight, it is very easy to handle, transport and store. Installation of this system is very convenient and fast.

**High corrosion resistance** - Being immune to chemical, electrolytic and galvanic action, the system is absolutely free from corrosion. It does not require protective coating.

**High chemical resistance** - System has excellent resistance to acids, oxidizing agents, alkalis, oils and domestic effluents. Thereafter it is completely resistant to acid rain water. This is particularly important in coastal regions and in areas with environmentally aggressive industries.

**100 % Leak proof** - This system is designed with special rubber rings to avoid leakage through joints.

**Odorless and hygienic** - It is ideal for carrying rainwater, as it is not subjected to any contamination. This is particularly important when rainwater is reused.

**Elegant appearance** - As it is smooth in touch and glossy, rainbow components give an elegant appearance.

**Maintenance free** - This system is maintenance free and offers longevity and endurance at reasonable cost.

## PRODUCT RANGE

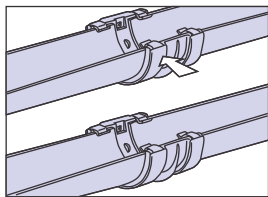


## FIELD APPLICATION

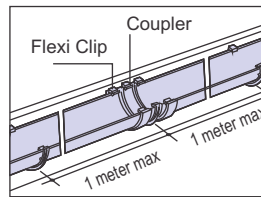
Supreme Rainbow roof gutter system is designed for rainwater collection and drain of rainwater. It is also suitable for different applications; some of them are listed below:

- Traditional residential houses
- Large size stores
- Garden shades
- Large size industries
- Large commercial buildings
- Garages

## JOINING INSTRUCTIONS

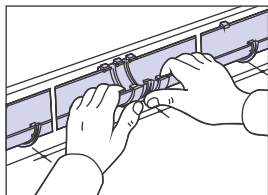


**Gutter Fall** - Lay Rainbow gutter to a fall of 1:600 i.e. 25 mm in 15 m span, this will increase the flow capacity and increase the area of roof that can be drain, particularly if the down-pipe is positioned centrally. It will also prevent silting or deposition.

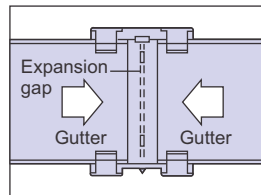


### Gutter connection -

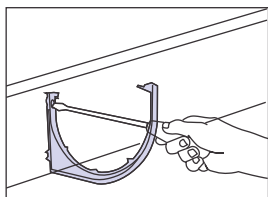
1. Lay the gutter to the gutter end line and place it under the part of the clip nearest the fascia.
2. Pull the gutter down with the fingers whilst simultaneously pushing the clip over the gutter with the thumbs.



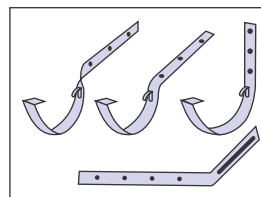
**Gutter jointing** - Rainbow rainwater system is fitted with a "Flexi clip" and seal jointing mechanism, making it easy to connect different components. This ensures a positive permanently watertight joint.



**Fixing gutter coupler** - Support gutter coupler at their centre with a support bracket, allowing the fitting to pivot to the required gutter fall. Also fix support brackets within 1 m of both sides of all gutter joints.

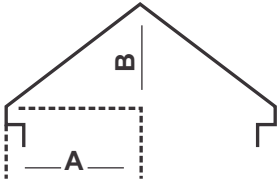


**Fixing gutter bracket** - Gutter bracket have single screw fixing, allowing the fitting to pivot to the required gutter fall.



**Fixing rafter brackets** - Select the metal gutter rafter bracket as per site requirements. Adjust the fixing position of gutter rafter bracket as per the slope requirement. Fix the gutter with rafter bracket with adjustable mechanism provided with the bracket.

## DESIGN GUIDELINES



The capacity of rainwater system to drain a roof area effectively depends on following four factors.

1. Gutter capacity,
2. Level to which the gutter is laid,
3. Number of outlets,
4. Location of outlets

**Roof area (pitched roof)** – To calculate the roof area to be drained – the effective roof area following formula can be used.

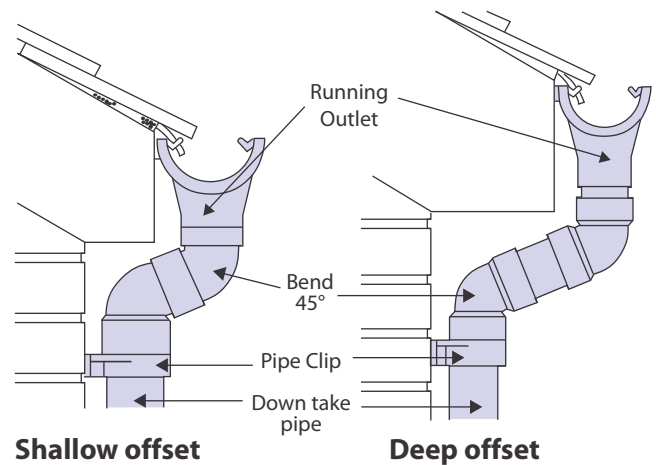
Effective roof area  $m^2 = (A + B/2) \times C$

Where A = Length of eaves to ridge

B = Height of roof from eaves to ridge

C = length of roof

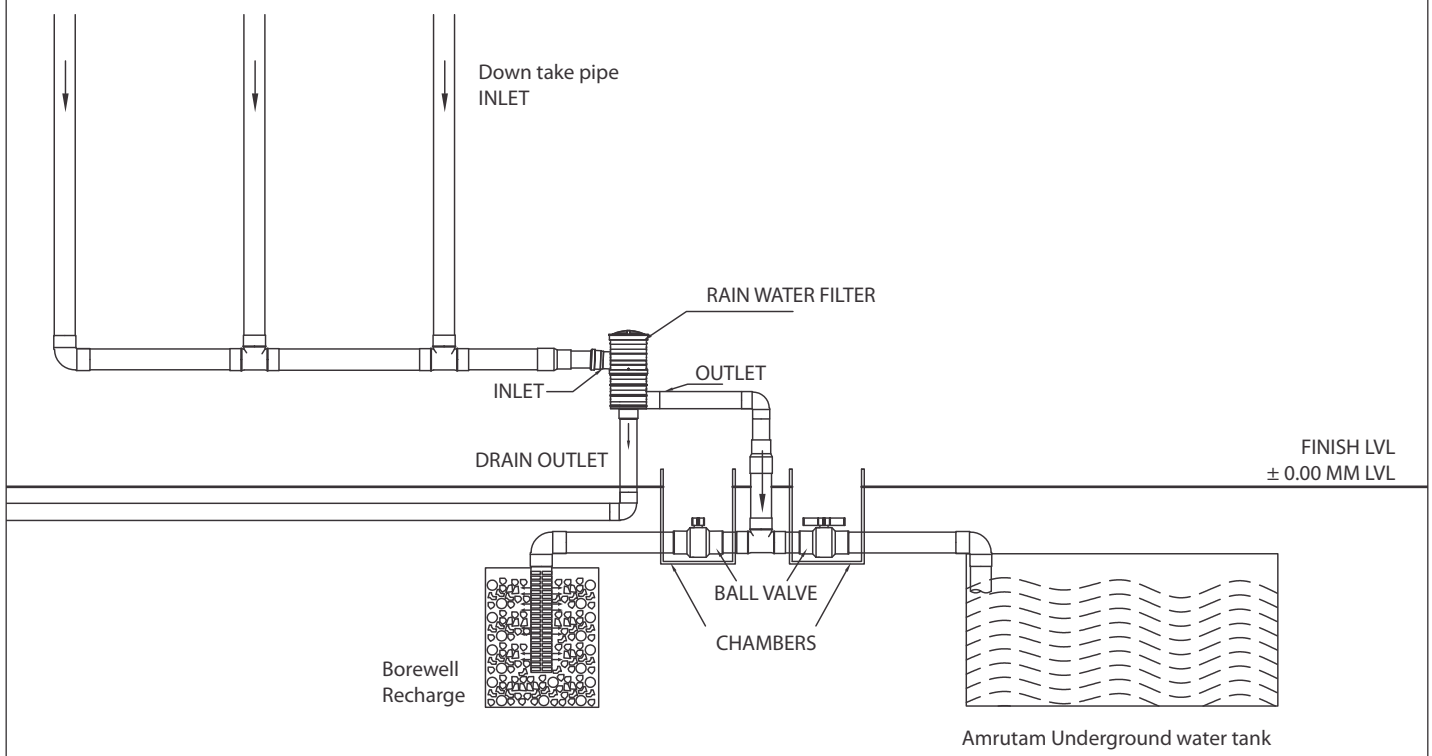
## TYPICAL INSTALLATIONS



Shallow offset

Deep offset

## RAIN WATER HARVESTING SYSTEM



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