



# WaterUps® Sub-Irrigation Channel installation guide

This guide will assist you with the installation of the WaterUps® Sub-Irrigation Channel ("SIC").

## What is in the kit?

The SIC comes as 2 kits.

### Basic Kit

This kit includes the following items:

- 1 x Channel water reservoir base
- 1 x End Cap with small O-ring
- 1 x Spigot and Nut with large O-ring
- 3 x WaterUps® wicking cells
- 1 x Inlet Pipe with Cap
- 1 x screw on overflow pipe extension connector

### Extension Kit

This kit is used if you are installing a wicking system channel greater than 1.2m in length and will include the following items:

- 1 x Channel water reservoir base
- 1 x Nut with large O-ring
- 3 x WaterUps® wicking cells



## Assembly preparation

1. Make sure that the position you are installing the SIC in is completely level using a spirit or laser level.
2. Make sure that the base on which you are going to install the SIC on is compacted.

## Assembling the Basic Kit

1. Start with the Basic Kit. Take the End Cap and check that the small o-ring is in position on the inside of the cap. Then screw the End Cap to the threaded 'male' end of the Channel and tighten.
2. If the sub irrigation channel that you are installing is only 1.2m long, then locate the Spigot and Nut. The Spigot should be placed on the inside of the channel connection hole and pushed through so that the threaded section of the Spigot is on the outside. Then add the large O-ring and screw on the Nut and tighten.

## Connecting the Channels

1. The Channels can be connected by placing the threaded piece at the end of one Channel into the matching hole at the opposing end.
2. Screw together with the Nut and O-ring that come with the Extension Kit.

## Cutting the SIC

1. The Channel can be cut using a hand saw or circular saw between the lines marked on the underside of the Channel - refer figure 1 on page 2.

## Cut between the lines



Figure 1. Cutting the SIC.

## Overflow Hole

1. It is important that close attention is given to the placement of the overflow on your sub-irrigation wicking system. The channel overflow is defined by the threaded piece adjacent to the top corner of the channel – refer figure 2. **You will need to drill out the hole on the inside of the threaded overflow connection piece using a 16mm speed bore.**
2. How you connect the overflow will depend on the nature of your installation.
3. If you are installing the SIC in a planter or adjacent to a retaining wall, then screw on overflow pipe extension connector piece. Then

attach a sufficient length standard poly irrigation pipe so that the end of the pipe extends through the wall and is visible.

4. If you are installing in-ground then you will need to run the overflow into an ag line or sump covered with aggregate. With this alternative you will not have visibility of when the channel system is full and overflowing.



Figure 2. Threaded 'male' end of Channel and overflow connection.

## QUICK TIP

It is particularly important NOT to keep the SIC reservoir full. A wicking system will work better when the reservoir is allowed to almost empty before refilling.

## Filling the SIC

1. There are 2 methods for filling the SIC:
  - The normal method would be to use the WaterUps® Inlet Pipe that comes with the Basic Kit.
  - If you have a channel system that includes an Extension Kit, then you will have more than one potential overflow holes. One of these could be used as the inlet for filling the SIC. This would require attaching poly irrigation pipe as was done for the overflow extension and connecting this to the water supply/tap.

## Further Information

[Click here to view & download the WaterUps® Installation Guide](#)



Published: 21 October 2021



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