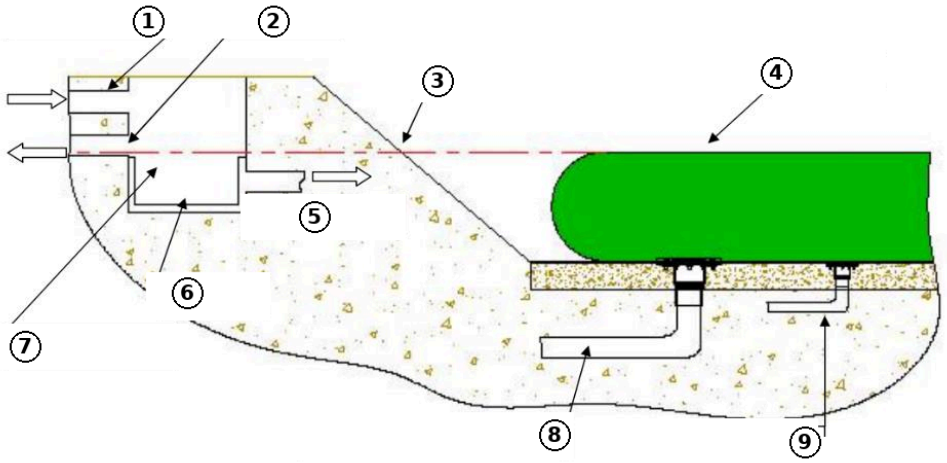
RAINWATER HARVESTING IN A FLEXIBLE TANK – OVERFLOW MANAGEMENT

D04-CIT-SC-001

Installation diagram · Flexible tanks and reservoirs

Installation principle of a flexible tank filled by gravity with rainwater. An overflow pre-filter chamber filters the water and discharges the overflow when the tank is full.

Diagram



Rainwater harvesting by gravity in a flexible tank

Key

1. Water inlet
2. Overflow
3. Maximum tank height
4. Flexible tank
5. Outlet to the tank
6. Filtration
7. Pre-filter chamber or filter
8. Filling from below the tank
9. Draw-off from below the tank

Operation

When a flexible tank is filled by gravity with rainwater, the overflow must be managed. An overflow pre-filter chamber meets this need: the tank is installed below the overflow level of the pre-filter chamber.

Once the tank is full, even during heavy downpours, the water flows naturally to the emergency overflow of the pre-filter chamber. The pre-filter chamber acts both as an overflow and as a filtering element.



Pre-filter chamber: rainwater collecting filter



Installation example



Installation example

The specifications of flexible tanks are given in data sheet D04-CIT-FT-001.

Related documents : D04-CIT-FT-001