

Geo Mesh Pipe

Letting the environment
breathe like a sponge



南陽化工

NAN YANG
CHEMICAL
CO., LTD.



About Nan Yang

Nan Yang Chemical Co., Ltd. was established in 1954 as a professional manufacturer for plastic nets and pipes. In addition to developing different plastic extruded net and bags to fulfill gardening, private homes and industrial use, they also manufacture HDPE drainage pipes. Recently, facing the challenges of climate change and overexploitation of land, Nan Yang began promoting a series of mesh pipe products. These include mesh infiltration pipes and infiltration wells that received certification of "Green Building Mark" and "New Technology for Green Building", and could be used to build green rainwater infrastructure in outdoor drainage system for homes, roads or green fields. This could provide the general public with simple and economical solutions for water resources management. Nang Yang continues to promote their products abroad and locally by complying with the global sustainable eco-friendly trend.

Tel / +886-5-235-7868

Fax / +886-5-235-6085

Address / No. 199, Liuzilin, Shuishang Township, Chiayi County 608013

southsun@southsun.com.tw



Product Introduction

Geo Mesh Pipe is integrally molded by using HDPE as material as it could be conveniently recycled and reused. The 3 dimensional arch shaped thread creates a web like structure, which not only have high pressure resistance features but also have excellent water collection and drainage function. The permeable area is more than 80% of the pipe surface, thus it is not easy to get clogged, allowing long lifecycle.



Lowering temperature of the earth surface

Reducing the heat conduction and slowing the heat island effect



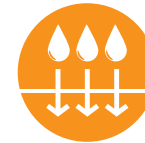
Ecological engineering method

No need to use filter material such as crushed stones, grading, and non-woven fabrics



Vertical design of the pipe

The pipe wall is designed to prevent sand and soil from entering and avoid blocking



High permeability area

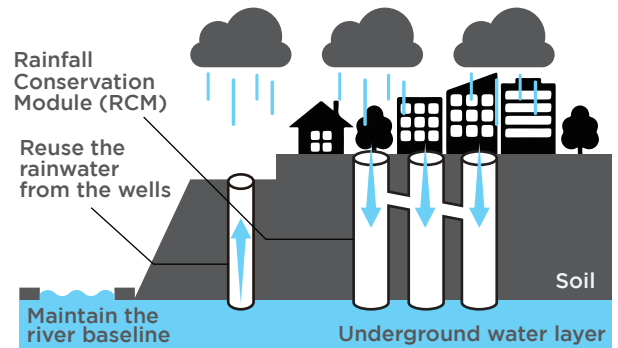
Raise the efficiency of water recycling, and maintain the conservation of the water and soil

Product Application

Rainfall Conservation Module (RCM)

It is often impossible to provide enough bare land and permeable pavement for infiltration within the high density development areas. By using both Nan Yang's horizontal mesh pipe and the vertical mesh drainage pipe to create a RCM, this could artificially assist the rainwater to infiltrate, thus achieve the goal of conserving the groundwater and reducing surface runoff.

The recharging, storing and reusing of the underground water



Water Saving Irrigation and Drainage Facilities

Using the geo mesh pipe to build a water irrigation and drainage facility, the irrigation water then enters into the soil through the mesh pipes and the storage system. Furthermore, by using the soil's capillary actions, it could replenish water to the tree roots, thus reduce environmental impact and create a comfortable and healthy urban ecological environment.

Application Scenario



Green Permeable Paver

The outdoors or building could be equipped with green permeable pavers, such as the permeable grass grid paver, vertical green wall, green roof, etc., to make the surroundings more environmentally friendly, reduce carbon emissions, and achieve the goal of slowing the heat island effect and lowering the temperature.

Application Scenario

