

Tunnel-trench for stormwater management

DRAINMAX

- ▶ Best price / m³
- ▶ 12 t and 60 t load capacity
- ▶ Washable floor
- ▶ Easy to assemble

Deutsches
Institut
für
Bautechnik

DIBt



WATER, WE'RE IN OUR ELEMENT

INTEΨA



The basis of the DRAINMAX Tunnel infiltration system is our 1.6 m³, large volume, light plastic trays that create a hollow space in the soil. With these, the rain water can be directly retained at the source and will infiltrate through the open soil and side holes.

INNOVATION

High load capacity to 60 t

The geometry of the tunnel has already being used historically in numerous buildings since ancient times. INTEWA also takes advantage of the tunnel geometry and its rigid construction in the design of the DRAINMAX tunnel made from recyclable HDPE plastic.

In order to achieve this, and in addition to numerous practical installation tests, complex quality and load testing is carried out by the German Association for Material Research and Testing Institute for Buildings. In these tests, material quality and the short-term and long-term strength of the components are analyzed and observed. The structural statistics for the DRAINMAX Tunnel infiltration trench offers maximum safety and quality certification for dealers, engineers, building companies and users.

Best price per m³

Best manufacturing, minimum transport volume, minimum space requirement, huge storage capacity and quick installation of DRAINMAX Tunnel infiltration trench gives you the best price per m³ of storage volume that can be attained with plastic infiltration trenches.



Cleaning and maintenance - washable floor

The clever design of the DRAINMAX system means that the essentially important walls and bottom of the DRAINMAX Tunnel infiltration trench can be completely flushed using the special connecting slots.



It is possible to also restrict the water flow to only the pipe. This saves significant costs on laying complex piping systems. You can also use the DRAINMAX tunnel system for infiltration of effluent water from sewage plants.

TECHNOLOGY



Infiltration trenches with truck load capacity and DIBt® mark

In order to achieve this, and in addition to numerous practical installation tests, complex quality and load testing is carried out by the German Association for Material Research and Testing Institute for Buildings. The long-term load carrying capacity for the DRAINMAX system has been verified for a minimum service life of 50 years. This becomes equally beneficial for designers, builders, manufacturers and for companies.



Easy to assemble, install and maintain

It is very easy to install the DRAINMAX Tunnel infiltration trench. Due to the light weight of just 30 kg, with a storage capacity of 1.6 m³ one single tunnel can be carried by two people

The first row of tunnel is installed on the basis of inflow slot from sedimentation- and filter pit or sewer overflow. The elements are connected with each other by simple overlapping. The end cap closes the tunnel row. The tunnel elements are filled even from the sides and top with suitable filling material in layers. The load bearing capacity of the connected surface track superstructure is established with covering the tunnel elements. Finally, the superstructure for surface track is created according to plan specifications.

Infiltration and attenuation with system

The DRAINMAX Tunnel infiltration trench can be used for a multitude of applications. For this reason, the system can be extended to almost any size by adding further tunnels or lines.

The most important examples for possible system layouts can be seen at:

- Local infiltration of rainwater from single family homes up to huge commercial properties.
- Local attenuation of the rainwater with restricted effluent
- Local infiltration of effluent from sewage plants
- Water reservoirs

Example of local infiltration of rainwater of commercial properties.



REFERENCES

INTEWA DRAINMAX Tunnel systems have more than 30.000 installations across Europe and have been successfully used for more than 10 years.



Your dealer

www.intewa.com

INTEWA