GEOSYNTHETICS

BR DRNG 0732-03/2017

Kaypipe® Geopipe

The Engineers' solution to all your drainage problems



KAYTECH
ENGINEERED FABRICS

JHB: Tel +27 11 922 3300 | Fax +27 11 392 1112
CT: Tel +27 21 531 8110 | Fax +27 21 531 5498
KZN: Tel +27 31 717 2300 | Fax +27 31 702 0435
EL: Tel +27 43 727 1055 | Fax +27 43 727 1065
PE: Tel +27 41 453 0755

WEB: www.kaytech.co.za

Kaypipe® Geopipe

The Engineers' solution to your drainage problems!

Pipes have been used successfully for many years in areas where it is necessary to channel the flow of water out of sub-soil drainage swiftly and effectively.

Why use specialised pipe to convey water? Natural materials, for the most part, restrict the speed of water flow and can easily become blocked. Drainage pipes are usually adapted versions of solid pipes and generally have an inadequate infiltration capacity in high flow areas which can lead to water back up.

Kaypipe® Geopipe™

Kaypipe® is not just an engineer's pipe dream. It has been specifically designed and manufactured to be a practical solution for all drainage problems. The **70% open area** of the **Kaypipe®** allows for a significant increase in the infiltration rate of water into the pipe.

No other drainage pipes have an infiltration rate equivalent to Kaypipe®.

Kaypipe® easily accommodates high localised flows in high water table areas, high permeability soils, soils with high localised flows (pebble layers), fissure flow, and at boundaries between high and low permeable layers. This **high infiltration capacity** allows for smaller diameter geopipes to be used.

Kaypipe® can, **with correct bedding**, tolerate extremely high stresses before buckling or deformation occurs.

Refer to Kaytech's Kaypipe® Bedding document.



Fin Drains

Engineers are increasingly finding fin drains like **Flo-Drain®** more effective when it comes to designing a drainage system. However, some engineers have found that traditional drainage pipes make the system cumbersome.

Geopipes are ideally suited to fin drains like **Flo-Drain®**. For the engineer, there is the added benefit of reducing the cost of the system as the **high infiltration capacity** of **Kaypipe®** reduces the need for the pipe to be totally surrounded by the **Flownet™** core.

Couplings

Kaypipe® geopipes are supplied with one standard UPVC coupling per length and are easily cut to shorter lengths for use in confined areas. Special couplings and fittings in common configurations are available.



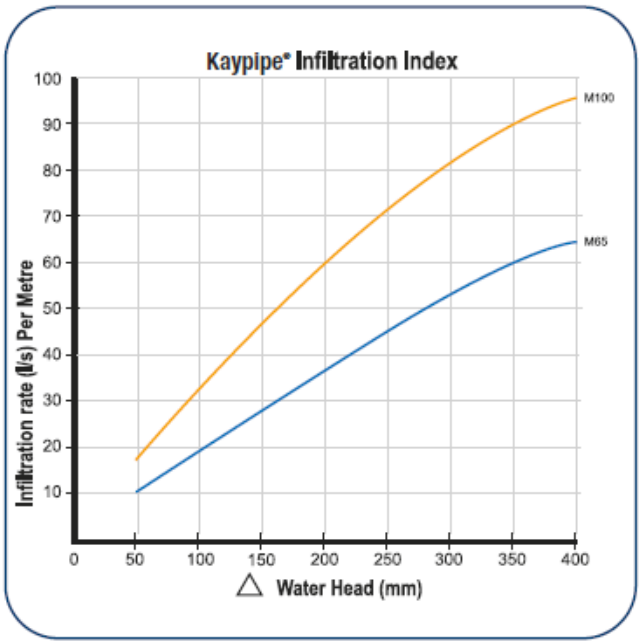




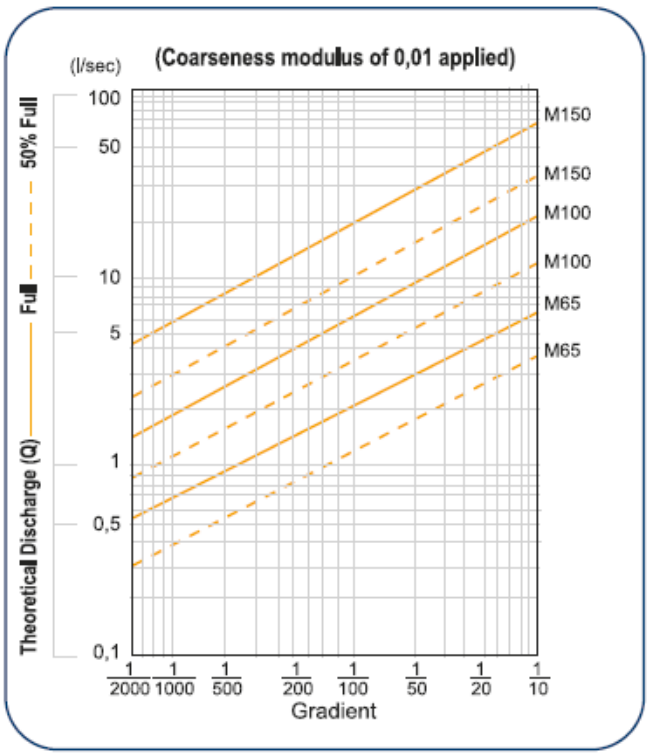


Results of laboratory tests to determine Kaypipe® Geopipe efficiency

Infiltration rates



Discharge Rate Nomogram



Installation & Handling

Time is money. A great deal of time is wasted by the care needed when loading and unloading drainage pipes.

Kaypipe® is **robust, light, and very easy to handle.** This results in significant cost savings when loading, transporting, and offloading. Installation is much easier when using **Kaypipe®**.

Flexibility

Kaypipe® is highly flexible. Under most conditions, **Kaypipe®** will deform and regain shape without breaking, and will not become brittle even at low temperatures. In this way, damage to the pipe during loading and installation is practically eliminated.

Chemical Resistance

When unusually adverse conditions are encountered - for example, effluent waste - pipes resistant to a wide variety of chemicals, are essential.

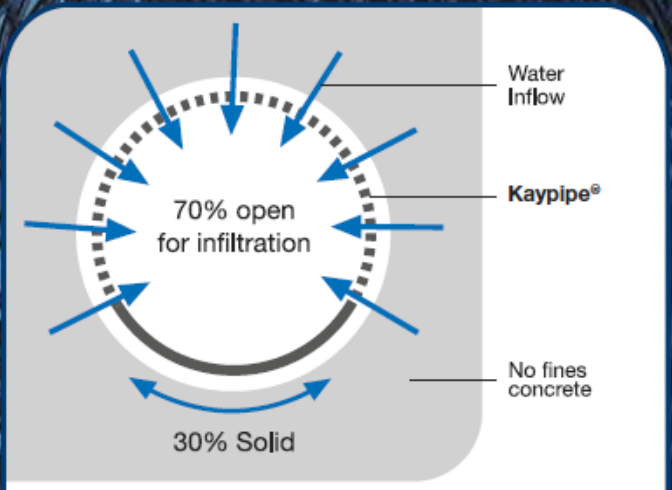
Kaypipe® resists chemical attack as it is manufactured using HDPE (High Density Polyethylene), one of the most chemically resistant polymers available. **Kaypipe®** also does not degrade or promote the growth of micro organisms.

Kaypipe® Sizes

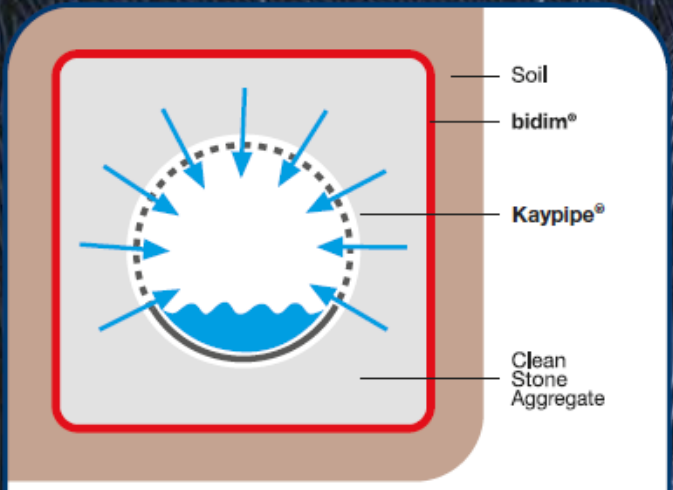
	ID(mm)	OD(mm)
M150	150	160
M100	100	110
M65	65	75

Standard Length - 6m

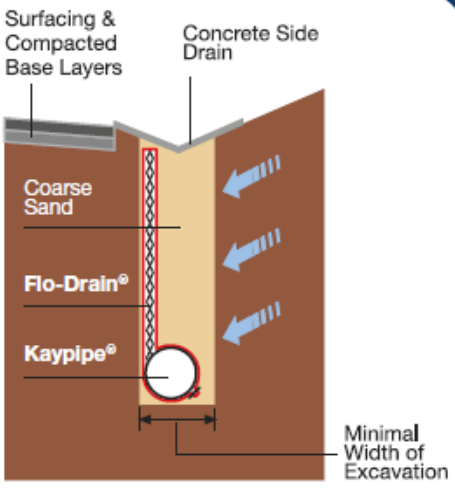
Some Drain Configurations



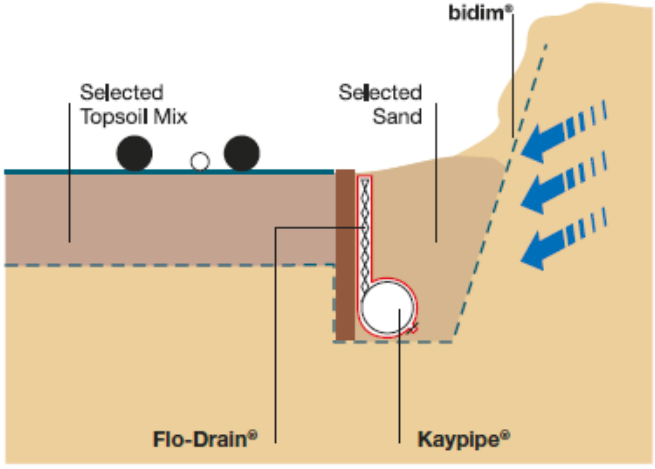
STRUCTURAL



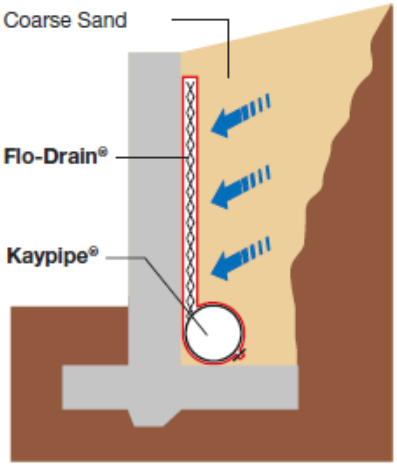
STONE FILLED



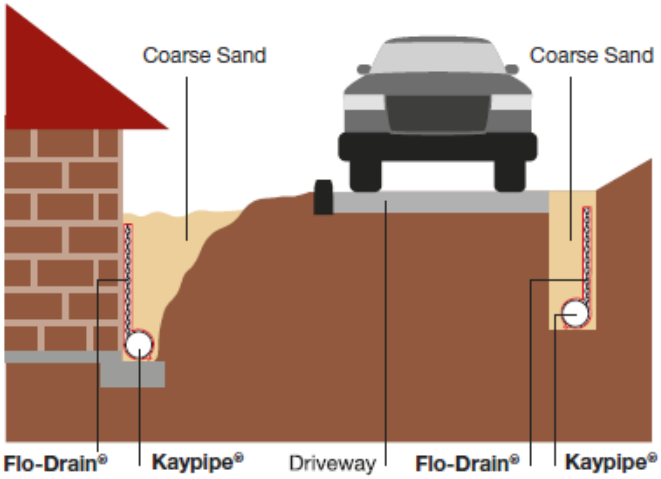
ROADSIDE



SPORTSFIELDS



RETAINING WALL



DOMESTIC

DISCLAIMER: The application, handling and conditions of use of our products are critical and beyond our control. Information given by us in our documentation or orally, or by any employee or agent and any advice, recommendation or assistance, is given in good faith but without creating any obligation or warranty.

© Kaymac (Pty) Limited t/a Kaytech 2017