

# Installing Bailey BLACK SNAKE Drainage Pipe

## BLACK SNAKE

Black Snake drainage pipe when installed correctly is designed to remove excess water, prevent water logged ground and pugging and is suitable for land and agricultural use.

## BEFORE YOU START

Correct design and installation is vital to the performance of a drainage system. We recommend consulting a suitably qualified person to assist in the design taking in factors such as soil type, topography and vehicle loading.

## PIPE GRADIENT

A gradient of between 1:200 to 1:100 is recommended to achieve good flow rates and prevent silt build up.

## PIPE SPACING

Pipeline spacing is a key factor in achieving good and economic land drainage. It is recommended to consult a suitably qualified person to determine the best spacings. However as a guide the following can be considered:

Light sand soils	20m - 30m
Clay soils	5m - 10m

## TRENCH

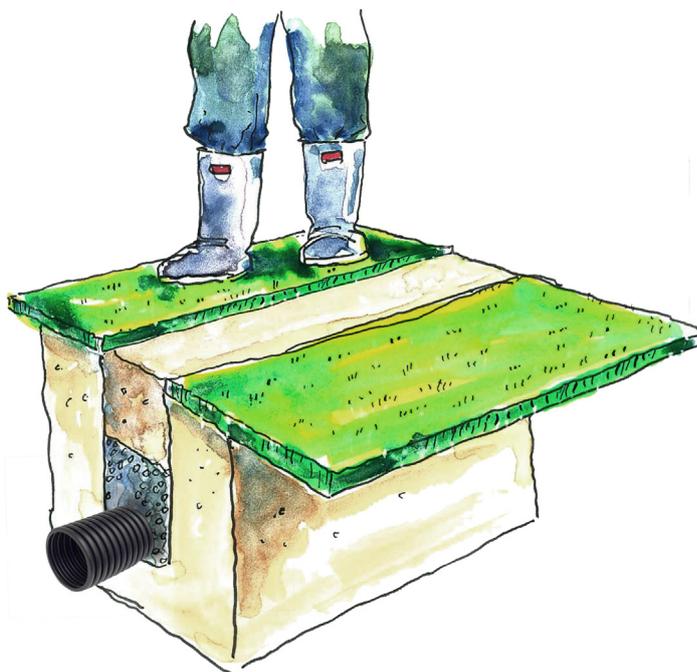
Trench width should be kept as narrow as possible (approximately 200mm wider than the pipe diameter) while still being able to compact the backfill material, particularly under the haunches. Ensure that the trench sides are cleanly cut to avoid contamination of the backfill during installation. Burial depths are as follows:

No vehicle loading	600mm minimum cover
Subject to infrequent vehicle traffic	750mm minimum cover

Black Snake should not be laid deeper than 2m of cover without first consulting a suitably qualified person to advise suitability and correct trench and back fill design. 50mm's of bedding material should be placed under the pipe to remove any irregularities in the bottom of the trench.

## PIPE LAYING & BACKFILL

The pipe should be laid centrally in the trench and care should be taken to avoid stretching the pipe. A well draining gravel should be used to backfill the trench. Gravel of between 5-10mm is recommended this will act as a good filter material, allow easy compaction and will not enter the pipe through the slots. Carefully place and compact the backfill material to a minimum of 150mm of cover above the pipe. Backfill and compact the remainder of the trench with suitable soil.



For any further information contact a Baileys technical representative on: **0800 861 333**