Percolation Test

PRODUCT INFORMATION

This Percolation Test follows the procedures laid out by the BRE Digest 365

Step 1 - Dig a trial hole

- The base of the trial hole should be approximately the same depth as anticipated in the full size soakaway.
- Overall excavation depth is typically: 1.5m-2.5m for areas <100m².
- The test hole should be typically 0.3m-1m wide and 1m-3m long (make a record of the test hole dimensions).



Step 2 - Fill the hole with water

- Fill trial hole with water this needs to be done rapidly to mimic a real storm event.
- Record the time taken for the water level to fall within the trial hole from 75% to 25% full.
- Repeat 3 times, allowing the trial hole to drain between tests.
- Best practice for soakaways longer than 25m is to perform a second percolation test at a different location to that of the 1st test site.

Step 3 - The results

Soil Infiltration Rate



V (p75-25) = Volume of the hole from 25% to 75% depth

a (p50) = Internal surface area of the hole up to 50% of the depth and including the base area

t (p75-25) = The time for the hole to drain from 75% to 25% full in seconds

- Contact the Polypipe Water Management Solutions Technical Team and advise them of the dimensions of the test hole and lowest timed result (in minutes).
- Polypipe Water Management Solutions will take this data and estimate the soakaway size required.



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Data Sheet