

New Dwelling – 8, London Road, Havant.
Proposed Soakaway Calculations **April 2019**

Area to be drained = 112 + 188 = 200m²

Assumed 10mm rainfall = 2.0m³ to be disposed of

VP = 60minutes/150mm = 24 seconds

Filtration rate (f) = $\frac{10-3}{2VP}$ = 0.0002

Incoming water is 200m² area x 14mm of rainfall = 2.28m³ of water to be disposed of.

Outflow volume is: $O = a^{s50} \times f \times D$ **therefore** $O = 2 \times 0.0002 \times 5$ **and thus** $O = 0.002\text{m}^3$

Therefore required capacity is 2.28m³ - 0.002m³ = 2.278m³. A traditional rubble filled soakaway 1.2m wide x 3.0m long x 2.0m deep - measuring 0.5m³ below the inlet pipe and with, say, 20% void, that is 0.25m³ storage capacity, will therefore be adequate.

Peter Galloway

9th April 2019