PROPOSED RELOCATION OF NEW DWELLING AT GWERN Y TO FARM, THREAPWOOD

Percolation Test Method

A 300mm square hole and 300mm deep below invert level was filled with water and left to seep overnight. The hole was refilled the following day and the time taken to fall 150mm depth was recorded. This was repeated three times in two different locations.

Results

Average time taken to fall 1mm was 10 seconds. (Vp)

Therefore

At = p x Vp x 0.25

At = 4 x 20 x 0.25

= **20 m^2**

Conclusions/ Recommendations

Drainage field to be constructed in a herringbone layout with an area of minimum 25m^2 and minimum length of perforated pipe to be 26m. Recommended area of soakaway to be minimum 50m^2

Construction

Drainage field to be constructed using 100mm perforated pipe laid to a uniform gradient no steeper than 1 in 200. Pipe to be laid on 300mm layer of clean stone graded between 30mm and 50mm. Trench to be filled minimum 50mm above pipe and covered with a membrane. Remainder depth to be backfilled with soil. Pipe depth to be minimum 500mm.