

10m

SURFACE WATER DRAINAGE

new rainwater goods are to discharge into a new open crate soakaway, min. 5000mm from buildings crate size 2000x1000x1200mm deep cased in a 225mm granular fill and filter fabric wrapping layer. The crates are to be positioned below the drain invert capped with polythene and 75mm concrete, prior to back filling.

FOUL DRAINAGE

TRIAL HOLE ONE TIMINGS (sec) 412 seconds 596 seconds 714 seconds

TRIAL HOLE TWO TIMINGS (Sec) 395 seconds 574 seconds 709 seconds

6 trial hole timings are added and divided by 6 to give an average time for the site (3400/6 = 566.66). This is divided by 150 to give the time it takes for the water to drop. This is the percolation value (VP). This figure was 566.66/150 = 3.77

The drainage field should be constructed in an area of 6.032m2 and in a closed loop system as per Part H design criteria. I would advise a 2no 600mm wide trench with a 2m gap between each trench which should run the full length of the lower area in a closed loop system; along with two interconnecting trenches this will allow for even distribution. I believe the area is approx. 22 linear meters and therefore the pipework should be slotted 110mm sewer pipe with 350mm of 20-40mm primary shingle below and 50mm over the top. A geotextile membrane should then be placed over

The total maximum discharge per day using British Water Flows and Loads would be 0.9m3 (900L) which is less than

FOR CONSTRUCTION

4 DENE CLOSE, ROPLEY, HANTS **SO24 0BN**

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