3 number trial pits were dug 300mm dia 800mm below topsoil level
The pits were filled 3 times before the reading was taken
Time taken to drop from 75%- 25% full was recorded below

Pit 1	Pit 2	Pit 3
1:00:30	1:29:50	1:14:40

Using $f = \frac{V75\text{-}25}{Ap50 \times Tp50} = \frac{3.1416 \times 0.15^2 \times 0.2}{(2 \times 3.1416 \times 0.15) \times 0.2 \times 5390} = \frac{0.01414}{1016}$

f = 0.0000139

Huddersfield r=0.4 Roof area using correction factor 1.29 = 170.6x 1.29= 220m2

D	Z1	M5-D	Z2	M10-D	AxR
5	0.37	7.4	1.2	8.88	1.936
10	0.52	10.4	1.22	12.69	2.792
15	0.63	12.6	1.23	15.50	3.410
30	0.8	16.0	1.24	19.84	4.364
60	1	20	1.24	24.80	5.456
120	1.21	24.20	1.24	30.08	6.617
240	1.46	29.2	1.22	35.62	7.836

Tp75-25 = 1:29:50= 7920sec

D	O	reqd	Provided	Pass/fail
5	0.008	1.937	6.250	pass
10	0.023	2.756	6.250	pass
15	0.042	3.352	6.250	pass
30	0.109	4.236	6.250	pass
60	0.272	5.159	6.250	pass
120	0.657	5.914	6.250	pass
240	1.562	6.244	6.250	pass

soak away size required is 24 number crates 1000x500x400mm
with 100mm clean stone surround

Trench to be 12.20m x1.2m x0.5m with 300mm topsoil cover

$Ts50 = \frac{S \times 0.5}{Ap50 \times f} = \frac{6.25 \times 0.5}{(12.2 + 1.2) \times 0.5 \times 0.0000139} = 33555s = 9.32hr < 24hr$