

percolation test
1 x 1 x 1 metre

average of 3 fills = 45min x 60/150 = 18

roof :- 11 x 4.5 x 1.18 (pitch) = 58.4m² / 2 = 29.2m²

therefore 2 x soakaways x 29.2 m²

design rainfall worst case 10mm over 5 min. ass per DOC.H

percolation test average seepage 75% to 25 % = 45 mins.

45x 60 secs = 2700 secs / 150 = 18 so vp = 18

filtration rate F = 10 -3

2 VP

F=10-3

2 X 18

F= 0.01

36

therefore F = 0.0003

outflow 0 = as 50 x FXD

therefore 0 = 2 x 0.0003 X 5 = 0.003

area to be drained 29.2 m² x 10mm = 0.292 m³ storage capacity

less outflow 0.003 = 0.289 m³ clear storage

soakaway size 1.2 X 1.2 X 1.1M depth below invert = 1.584M³

with 20% void = 0.3168 M³

therefore each soakaway will suffice

equivalent soakaway crates 2 X 1.2 X 1.2 X 1.1

Rainsmart Ellipse soakaway crates
wrapped in geotextile

Turtle Enviro silt traps with filters
and lids 830mm deep x 300mm wide

C.DOUGLAS
DUNAVON
COLLAGE AVE
BRIDGE OF WEIR
PA11 3DG
1/100 1/20
DRG. NO C1303A

