Visual Soakaway Design 4.0

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Project Details

Project Title: Darfield Soakaway Plot 1 & 2

Project Number: 15/190 ***Designer:*** RJ Design (Architectural Services) Ltd

Global Variables

Impermeable Area :-41 m2 ***Soil Infiltration Rate :-*** 0.000021 m/sec

Storm Duration :- 60 minutes ***Rainfall :-*** 0.0248 metres

Void Ratio :- 0.3 ***Volumetric Runoff Coeff :-*** 1.00

Factor of Safety :- 1 ***Ring soakaway failure depth :-*** 4 metres

Half Empty failure time (hrs) :- 24 hours

* Base has NOT been included in design of trench soakaway *

* Base has NOT been included in design of ring soakaway *

* Granular surround has NOT been included in ring soakaway design *

Trench Soakaway

Length :- 2.00 metres ***Width :-*** 1.28 metres ***Depth :-*** 1 metres

Half empty time :- 1.54 hours (decimal)

Surface area of exfiltration :- 3.28 metres squared

Precast Concrete Ring Soakaway

Ring Size (mm)	Depth (metres)	Half Empty Time (hours)
900	1.36	2.97
1050	1.02	3.47
1200	0.79	3.96
1350	0.63	4.46
1500	0.52	4.96
1800	0.36	5.95
2100	0.27	6.94
2400	0.21	7.93
2700	0.16	8.92

Variable Ring Soakaway Design

Diameter (mm)	Depth (metres)	Half Empty Time (hours)
900	1.36	2.97