

Your Logo / Company Details Here	Project: 20 Woodford park - 21-14 --101	By:															
	Calculation: Soakaway Design																
	Sheet Number: Cover Sheet Date:	Approved:															
<p>Although all care and attention has been taken to ensure that this program is accurate, CivilWeb gives no guarantee that it is error free. In no event will Civil Web accept any responsibility for any errors or omissions from the program or from the user of the program, or for any special, incidental or consequential damages whatsoever arising from use of this program.</p> <p>This program should only be used by a suitably qualified Civil or Structural Engineer, and suitable efforts should be taken to verify the results.</p> <p>Reverse-engineering or decompiling of this program is not allowed.</p> <p>This program is registered to a single user, and should not be used by any other.</p> <p>Registered User, Single User License</p> <p>By using this program you confirm your understanding and agreement with the above terms and conditions.</p> <p>This program remains the property of CivilWeb. www.civilweb-spreadsheets.com</p> <p>Revision Schedule</p> <table border="1"> <thead> <tr> <th>Rev</th> <th>Changes</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Original</td> <td>18/04/2017</td> </tr> <tr> <td>2</td> <td>Added 200 Year Return Period</td> <td>08/02/2018</td> </tr> <tr> <td>3</td> <td>Fixed Diagram Bug</td> <td>06/06/2018</td> </tr> <tr> <td>5</td> <td>Fixed Emptying Time Bug</td> <td>01/11/2019</td> </tr> </tbody> </table>			Rev	Changes	Date	0	Original	18/04/2017	2	Added 200 Year Return Period	08/02/2018	3	Fixed Diagram Bug	06/06/2018	5	Fixed Emptying Time Bug	01/11/2019
Rev	Changes	Date															
0	Original	18/04/2017															
2	Added 200 Year Return Period	08/02/2018															
3	Fixed Diagram Bug	06/06/2018															
5	Fixed Emptying Time Bug	01/11/2019															

Your Logo / Company Details Here	Project:		By:
	Calculation:	Soakaway Design	Approved:
	Sheet Number:	1	Date:

Catchment Details		
Catchment Area	47	m ²
Runoff Coefficient	100	%
Design Storm Intensity	12	mm/hr
Design Storm Duration	360	mins

6 hrs

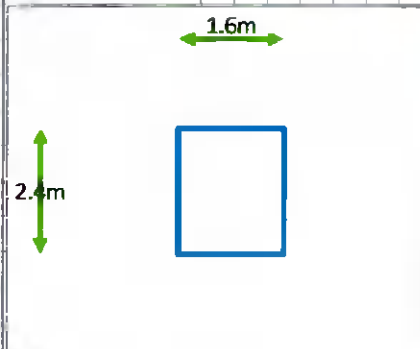
Ground Information

Infiltration Rate	0.1	m/hr
Factor of Safety	1.5	

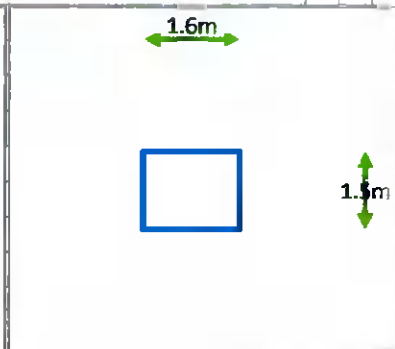
Soakaway Design

Soakaway Shape	Rectangular Trench/Pit	
Number of Soakaways	1	
Length	2.4	m
Width	1.6	m
Effective Depth	1.5	m
Backfill Porosity	60	%
Additional Outflow (if Any)	0	l/s
Base Infiltration Factor	0	

Soakaway Plan



Soakaway Cross Section



Storage Volume Required	0.98 m ³
Storage Area Provided	3.46 m ³
Time for Emptying 50%	1.2 hours

Acceptable

Acceptable

Your Logo / Company Details Here	Project:	20 Woodford Park						By:
	Calculation:	Soakaway Design						Approved:
		BRE 365 Method						
	Sheet Number:	1	Date:	26.12.2021				

Catchment Details							
Catchment Area			47			m ²	
Location	Ireland						
City/Town	Dublin						
M5-60	19	Override-			37.9		
r Ratio	0.36	Override-			0.36		
Runoff Coefficient					100	%	

Design Storm Details		
Return Period	100	years
Climate Change Allowance	1.0	

Ground Information	
Infiltration Rate	0.10797 m/hr

3.00E-05 m/s

Soakaway Design			
Length	2.40	m	
Width	1.60	m	
Effective Depth	1.50	m	
Backfill Porosity	60	%	

Results

Storm Duration	Z1	Z2	Rainfall	Inflow	Outflow	Storage Required	%
5	0.36	1.94	26.46	1.24	0.05	1.19	34.4
10	0.51	1.99	38.53	1.81	0.11	1.70	49.3
15	0.62	2.02	47.49	2.23	0.16	2.07	59.9
30	0.79	2.01	60.19	2.83	0.32	2.50	72.5
60	1.00	1.98	74.98	3.52	0.65	2.88	83.2
120	1.22	1.95	90.22	4.24	1.30	2.94	85.2
240	1.48	1.93	108.27	5.09	2.59	2.50	72.3
360	1.67	1.92	121.44	5.71	3.89	1.82	52.7
600	1.90	1.90	137.16	6.45	6.48	0.00	0.0
1440	2.42	1.84	168.74	7.93	15.55	0.00	0.0

Maximum Storage Volume Required:	2.94 m ³ (120 min Storm)	
Storage Volume Provided:	3.46 m ³	Acceptable
Time of Emptying	2.67 Hours	Acceptable