

Flo-Well[®]

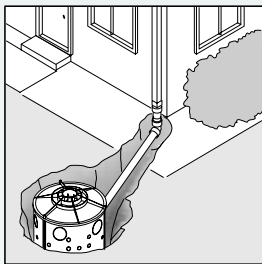
STORM WATER LEACHING SYSTEM



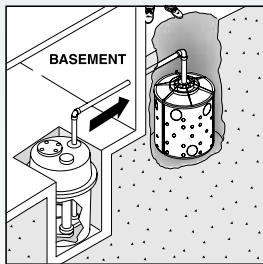
**One source.
Many solutions.**



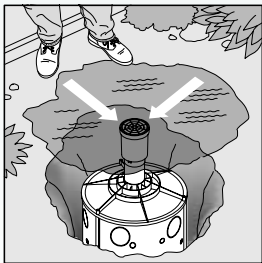
APPLICATIONS



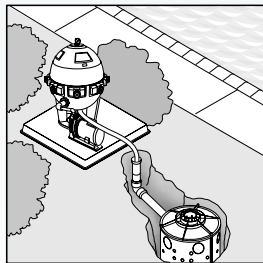
For gutters and downspouts



Install with sump pump

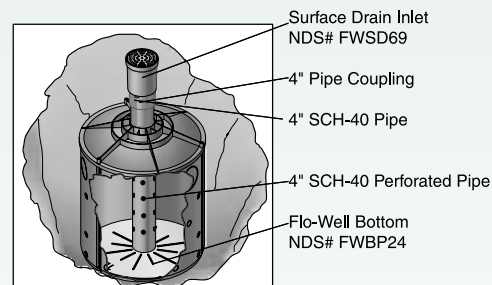


Eliminates puddles

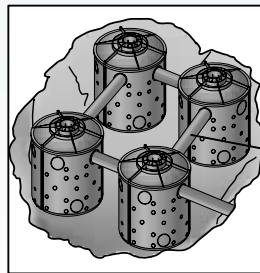


Pool backwash tank

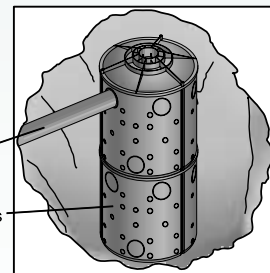
OPTIONS



For additional support



Can be connected

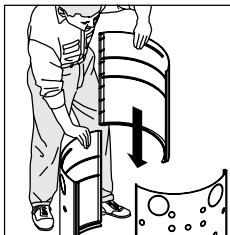


Can be stacked

INSTALLATION



1 Knock out ports as needed from inside of panel



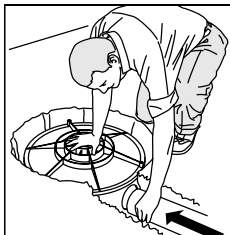
2 Slide panels together



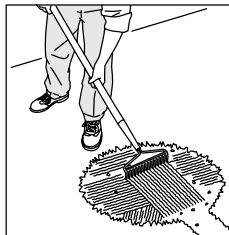
3 Optional Filter Fabric to prevent sand and debris from entering Flo-Well



4 Place in ground and set top cover in place*

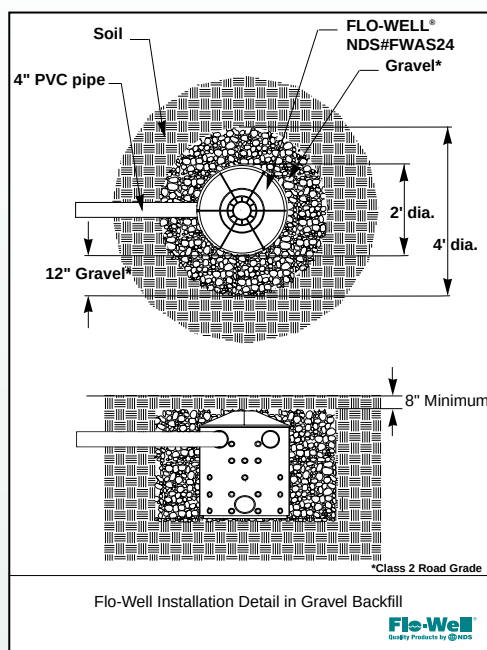
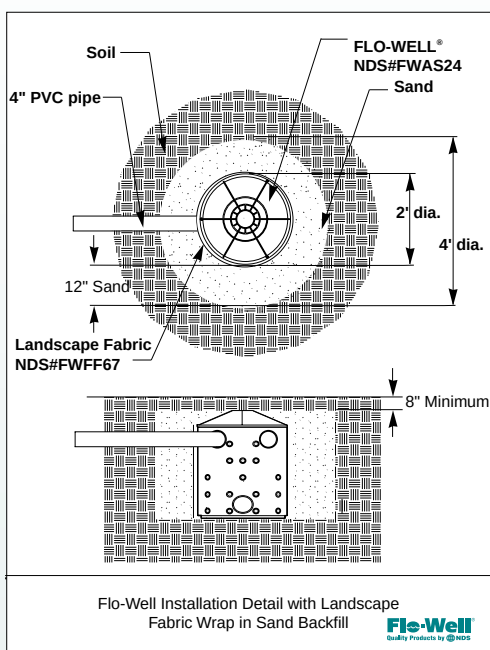


5 Install pipe or surface drain



6 Bury to minimum of 8 inches deep

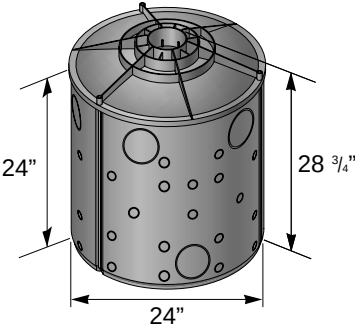
*Installation Note: Location and number of ports removed will determine the rate and direction of leaching.
* Add gravel around outside of Flo-Well unit to increase leaching capacity.*

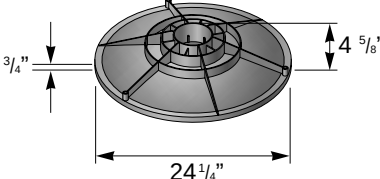


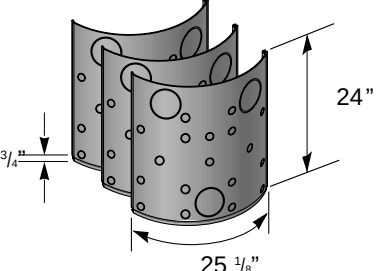
NDS

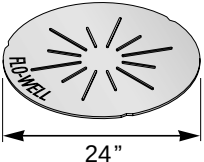
For customer service, please send your fax to: 1-800-726-1998 or call 1-800-726-1994. www.ndspro.com

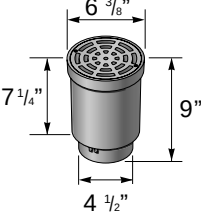
STORM WATER LEACHING SYSTEM

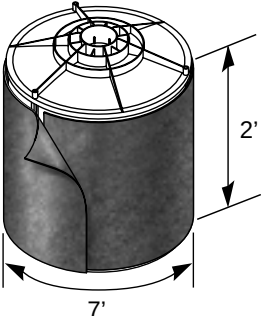
	Part No.	Description	Color	Pkg. Qty.	Specifications
	FWAS24	24 x 28.75" Round Dry Well System	Black	1	NDS #FWAS24 structural foam polyolefin round drywell system with UV inhibitors. 24" dia., 28.75" high, 49 gal. with 18- 1.5" Knockout leaching ports and 3- 4.5" knockout inlet/outlet ports per panel.
		Includes 3 side panels, 1 Top Component			

	Part No.	Description	Color	Pkg. Qty.	Specifications
	FWAS24C	24" Flo-Well® Cover	Black	1	NDS#FWAS24C structural foam polyolefin round drywell system cover with UV inhibitors. 24 1/4" dia., 4 5/8" height, 3/4" outer lip, 4.5" center knockout fits NDS #FWAS24, NDS #FWSPS3
		Use with NDS #FWAS24			

	Part No.	Description	Color	Pkg. Qty.	Specifications
	FWSPS3	Flo-Well® Side Panels/ Extension Only	Black	3	NDS #FWSPS3 structural foam polyolefin side panels with UV inhibitors with 18- 1 1/2" knockout leaching ports and 3- 4.5" knockout inlet/outlet ports per panel. 24" high with recessed .75" lip for firm stacking.
		Includes 3 side panels Fits NDS #FWAS24			

	Part No.	Description	Color	Pkg. Qty.	Specifications
	FWBP24	24" Flo-Well® Bottom	Black	1	NDS #FWBP24 structural foam polyolefin round Flo-Well® bottom with UV inhibitors. 24" diameter with six 1 1/2" leaching ports. 4.5" center knockout for strut coupling.
		Fits NDS #FWAS24			

	Part No.	Description	Color	Pkg. Qty.	Specifications
	FWSD69	4" SCH40 Surface Drain Inlet with Grate	Black	1	NDS #FWSD69 structural foam polyolefin 6" grate with 4" inlet with UV inhibitors. 6" Diameter at inlet. 9" high. 4.5" OD fits Sch. 40 PVC fittings.
		Fits NDS #FWAS24			

	Part No.	Description	Color	Pkg. Qty.	Specifications
	FWFF67	Porous Filter Fabric Wrap for Flo-Well®	Black	1	7' long x 2' wide to surround Flo-Well® Drywell System. Non-woven fabric. Weight 1 oz. Mullen burst 175 psi. 200 GPM flow through.
		Use with NDS #FWAS24			

Flo-Well® Table

Formula for Number of Flo-Well per Drainage Area:

Number of Flo-Well to use per Drainage Area:

$\frac{[\text{Water Runoff Volume into Flo-Well}] \times [\text{Coefficient of Ground Under Flo-Well}]}{[\text{Volume of Flo-Well (7.527Ft}^3)] + [\text{Volume of Backfill Material}]}$

Volume of Water Runoff into Flo-Well:

$\frac{(\text{Sq. Ft. Area} \times \text{Coefficient of Runoff})}{12}$

Volume of Backfill Material:

$\frac{\pi}{4} \times (\text{Diameter of Backfill Material}^2 - \text{Diameter of Flo-Well}^2) \times \text{Depth of Flo-Well} \times (1 - \text{Coefficient of Runoff for Backfill Material})$

Flo-Well Calculator can be found at:

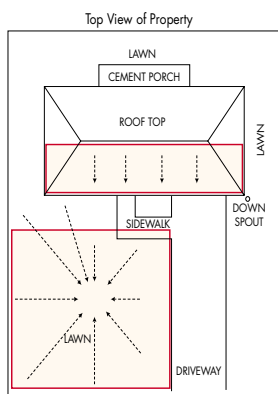
www.NDSPRO.com/Flo-Well

12 Steps to Complete Formula

(Example calculations are shown in Red)

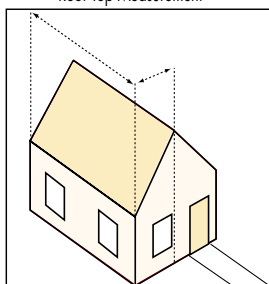
Figure A

Finding The Drainage Area



DRAINAGE AREA is defined as a single collection area that brings the water to one point of discharge. The property diagram above shows the typical breakdown of drainage areas per property. The dashed lines show water flow.

Roof Top Measurement



For Calculating the dimensions of a roof drainage area, use only the Length and width of the foundation below the roof.

Step 1: Square Footage of Drainage Area(See Figure A)

Length of Drainage Area: a) _____ (50)

Width of Drainage Area: b) _____ (50)

a) _____ (50) X b) _____ (50) = c) _____ (2500) Sq.Ft.

Step 2: Coefficient of Runoff for Drainage Area(See Figure B)= d) _____ (0.6)

Step 3: of Water from Drainage Area:

c) _____ (2500) X d) _____ (0.6) ÷ 12 = e) _____ (125) Cu.Ft.

Step 4: Coefficient of Runoff for Backfill Material(See Figure B)= f) _____ (0.5) (Concrete and Asphalt are not recommended for backfill materials)

Step 5: Diameter of Backfill Material(See Figure C): g) _____ (4) Ft. X g) _____ (4) Ft. = h) _____ (16) (Both Numbers placed in g) should be the same and greater than 2)

Step 6: 1 - f) _____ (0.5) = i) _____ (0.5)

Step 7: h) _____ (16) - 4 = j) _____ (12)

Step 8: Volume of Backfill Material:

i) _____ (0.5) X j) _____ (12) X 2.356194 = k) _____ (14.137) Cu. Ft.

Step 9: Coefficient of Runoff for Soil Under Flo-Well(See Figure D)= l) _____ (0.4)

Step 10: e) _____ (125) X l) _____ (0.4) = m) _____ (50)

Step 11: k) _____ (14.137) + 7.527 = n) _____ (21.664)

Step 12: m) _____ (50) ÷ n) _____ (21.664) = _____ (3) # of Flo- Wells needed for Drainage area.

Figure B

Soil Texture	Coefficient of Runoff
Roof Top	1
Concrete/Asphalt	1
Gravel - Compact	0.7
Clay - Bare	0.75
Clay - Light Vegetation	0.6
Clay - Dense Vegetation	0.5
Gravel - Bare	0.65
Gravel - Light Vegetation	0.5
Gravel - Dense Vegetation	0.4
Loam - Bare	0.6
Loam - Light Vegetation	0.45
Loam - Dense Vegetation	0.35
Sand - Bare	0.5
Sand - Light Vegetation	0.4
Sand - Dense Vegetation	0.3
Grass Areas	0.35

Figure C

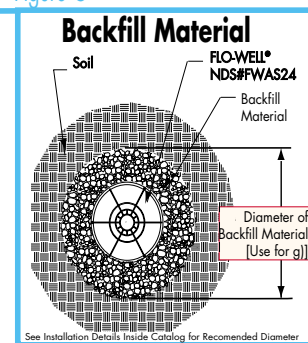
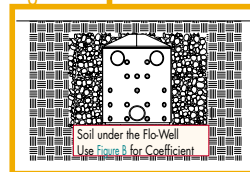


Figure D



NOTE:

Where local regulations do not apply, NDS recommends that your drainage system be designed with downspout drains based on the first inch of precipitation during each storm session. In the event of a storm producing precipitation of more than one inch, additional overflow precautions are recommended. Due to variances in soil conditions, actual water storage capacity and water distribution capabilities of the Flo-well system may vary. Please consult an engineer for detailed storage capacities. The example figures in red are for sample purposes only. The Flo-Well table (Flo-Well Calculator) can be found in an automated format at www.NDSPRO.com/Flo-Well.