

Planter Area Water Drainage System

List of Tools Needed, Shopping List, and Installation Instructions



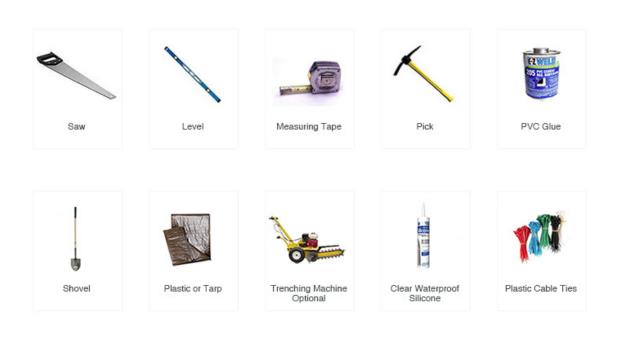








Tools Needed



Shopping List

Quantity needed of each part will vary based on several factors specific to your project including system length, rainfall intensity, and number of problem areas. Pipe and fittings are offered in two sizes: 3" and 4". Size availability will vary based on region and store. Ensure that component sizes are consistent throughout your drainage system.

EZ-0702F or EZ-0802F	7" or 8" EZ-Drain Bundle with 3" or 4" Pipe	Find in stores
3C05 or 4C07	3" or 4" Corrugated Couple	<u>Buy online</u>
3C06 or 4C06	3" or 4" Corrugated End Cap	<u>Buy online</u>
351 or 451	3" or 4" Corrugated Adapter	Buy online
321or 421	3" or 4" Pop-up Emitter with Elbow	Buy online
FWAS24	Flo-Well	<u>Buy online</u>
FWSD69	Flo-Well Surface Drain	Buy online
900BLKIT	9" Catch Basin Kit	<u>Buy online</u>
Generic	4" Drain Pipe	
981	9" Atrium grate	<u>Buy online</u>

Installation Instructions

(i) Note Before You Dig

Prior to installation, have your local utility companies locate and mark the location of existing utilities. Lay out your drainage system and mark the location of trenches and individual parts to be installed with marking paint before digging. Carefully remove grass or plants that are located where the trench will be dug so they can be replanted after installation. Trenches should be dug such that they slope a minimum of 1% away from your house. Place all excavated dirt on a tarp so that it can be used later to backfill.

To speed up installation, a trenching machine can be used to dig all trenches, especially in areas with particularly hard soil. NDS drainage products have been designed to be installed in any soil type. Due to the variety of pipe types and sizes, double check that all pipe connection points are the correct size. Please follow all installation directions included with the individual parts of your drainage system. To create watertight connections between products, apply a bead of waterproof silicone to both parts and connect.

This system requires that the elevation of the Pop-Up Emitter be lower than the elevation of the area drain or the system will not drain.

Step 1: Lay out system, dig trenches and holes

Dig holes and trench for pipe, catch basin, Flo-Well, and EZ-Drain. Dry fit (no glue) the entiredrainage system from the Catch Basin to the pop-up emitter. The Flo-Well and EZ-Drain should be installed at least 10' away from any existing structure. Measure and cut all pipe to necessary lengths. After completing each step, glue parts together.

DOWNSPOUT RUNOFF: BEST SOLUTION - STEP 1



LAY OUT SYSTEM, DIG TRENCHES AND HOLES

Step 2: Install Catch Basin

WATER IN PLANTER AREA: BEST SOLUTION - STEP 2
INSTALL CATCH BASIN

Step 3: Install Flo-Well and EZ-Drain

DOWNSPOUT RUNOFF: BEST SOLUTION - STEP 3



INSTALL FLO-WELL AND EZ-DAWN

The Catch Basin should be installed in a low spot in your landscape planter area. If needed, connect the Catch Basin Universal Outlets to the Catch Basin by inserting the Outlet into the Catch Basin and twisting to lock in place. Place the atrium on the Catch Basin and screw in place. Connect a drain pipe to the Catch Basin using the Catch Basin Universal Outlet. TIP: Dig the hole for the basin an additional 6" deeper than needed. Place 6" of gravel in the bottom of the hole. Drill small holes in the bottom of the basin to prevent standing water in the bottom of the basin.

Run drain pipe from the other end of the Catch Basin to the Flo-Well. Knock out the appropriate holes in the side panels of the Flo-Well where the drain pipe and EZ-Drain will be installed. Assemble the Flo-Well using the interlocking side panels. Slide the Drain Pipe and EZ-Drain through the holes in the Flo-Well side panels.

TIP: Lay the Flo-Well panels on bricks or other hard surfaces and use a hammer to knock out the holes in the side panels.

Step 4: Connect Flo-Well Surface Inlet

DOWNSPOUT RUNOFF: BEST SOLUTION - STEP 4



Knock out the center hole of the Flo-Well lid. Place the lid on the Flo-Well side panels then place the Flo-Well Surface Inlet onto the Flo-Well lid.

Step 5: Install Pop-Up Emitter

OWNECT FLO-WELL SUMPACE INLET

Using a Corrugated Pipe Adapter, connect EZ-Drain to an elbow with a weep hole. The elbow should be installed with the weep hole on the horizontal side of the elbow. Slide the Pop-up Emitter onto the elbow. An additional length of pipe can be used between the elbow and Pop-Up Emitter to

DOWNSPOUT PUNOFF: BEST SOLUTION - STEP 5



bring the Pop-up emitter to the surface. The Pop-Up Emitter fits on the "bell" or "hub" end of the pipe or a pipe coupler.

TIP: To avoid damaging your Pop-Up Emitter with your lawn mower, raise the cutting level of the blades or avoid passing the mower over the Pop-Up Emitter

Step 6: Backfill and Replant

DOWNSPOUT RUNOFF: BEST SOLUTION - STEP 6



BACKFILL AND REPLANT

Backfill and replace any grass or plants that were removed.

TIP: DO NOT BACKFILL WITH SOIL WITH HIGH CLAY CONTENT. Water must be able to easily pass through the backfilled soil.



Have Questions?

Call 1-877-412-7467 or visit us on the web NDSPro.com