Pup Grass.
Installation Guide

Site Base Preparation:

Layout the Area:

1. Mark off the area where you are installing Pup-Grass®. Use marking spray paint or chalk.

2. Once you have determined the area, remove existing sod and 1.5"- 2" of soil including all organic materials.

3. Remove Create a slight grade for optimal drainage and rough level with a rake.

4. We recommend leaving a few sprinkler heads in place. This will make cleaning Pup-Grass more efficient. On hot days, turn the sprinklers on for 3 minutes. This will cool the surface for your dog's pads. Cap off any remaining sprinklers heads.

Prepare Base :

Lay 1 ½ -2" inches of base material over native soil. Common names for base material "**Class II Road Base". "CR#6 " "GAB"** Evenly distribute the material over the area.

Note:
 Make for sure the native soil is dry.

Compacting the Area

The compaction process will remove voids and air pockets and will provide a firm base that will not expand or contract during wet and dry seasonal changes. For best compaction, wet base material slightly. Use a drum roller or vibrating plate compactor, compact to 90%.

Smoothing Out Compacted Area

After base material is compacted, use concrete sand or **ASTM C33**.
This material fills small voids and provides a flat smooth surface for your installation. Use enough material to fill voids and smooth out the base.
Do a final compaction of the topping material.

For small areas you can use a tamper, for larger areas use a vibratory compactor, or barrel roller, however we recommend a motorized compactor.

Note:
 Stone Dust or Decomposed Granite is not a good alternative for use as a topping. Decomposed Granite unless mixed with a stabilizer will wash away. Stone Dust does not have good drainage capabilities.

Neutralizing Clay Soil If site has clay soil, we recommend adding lime as a soil stabilizer. Mix one 40 lb bag of lime per 200 sq ft mix in 3-4" depth. This will neutralize clay soil and allow for better drainage and a stronger base.

Installing Borders

We recommend using The WonderEdge™ System
 It designed for easy and quick Installation. No trenching or digging required. Complete your border installation in a tenth of the time it takes with traditional Bender Board. There are no stakes to pound or screw, you simply use turf nails
to fasten to the top of your prepared base. **This system c**an also be glued
or nailed to concrete or asphalt for an ultra-strong border for pet turf installs.
See Page 6 for more instructions.

Installing Pup-Grass®

Allow Pup-Grass to warm in the sun by unrolling and laying flat. This will make stretching and installing much easier and will allow the material to be easier to stretch.

Measure and mark the back of Pup-Grass. Use a carpet knife with a new blade.
When cutting stay between the green lines. This will prevent yarn from unraveling at the edges. Installing Pup-grass Is the same procedure as installing carpet.

Position the material. and stretch the material so that it lies perfectly flat . Nail approximately 18*"-24"* O.C. Check that the material is not puckered and lays perfectly flat.

Note:
When nailing, spread the grass blades so the nail head clears the blades.
It is critical that the nap of the grass goes in the same direction.
To determine which direction the nap is, look at the vertical
lines on the backing. All cuts should be going in the same direction.
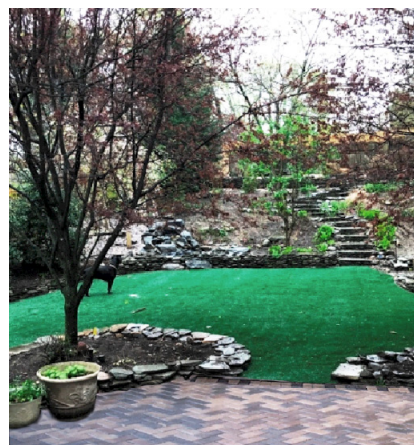
Seaming Joints

Joints can be secured by two methods, seaming tape or nails. Make sure
 each edge is straight. When using tape and adhesive, roll back Pup-Grass
 on each side. Place seaming tape in middle of two sections. Apply adhesive
 with a trowel or an adhesive caulking gun. Spread adhesive evenly on both sides.

Note: Make sure you do not use too much adhesive
or it will come up through the seam.

Infill

We recommend using **Pup-Fresh™** Infill and Odor Control. It is an all natural,
 odorless, non-toxic mineral that neutralizes urine and help keep Pup-Grass
 looking new. It will also help reduce surface temperature. It is safer for dogs
and the environment than ground rubber or silica sand.

You can apply **Pup-Fresh**™ evenly with a fertilizer spreader or hand broadcast it.
Use a push broom to fill in after each pass of **Pup-Fresh™** this fluffs your Pup-Grass.
Brooming after each pass of the **Pup-Fresh™** allows the infill material to migrate between the blades. This will provide support for the blades as well as superior odor control. The last step is to hose the area, to remove dust.

Installing Over Concrete, Tile or Limestone

Pup-Drain™

When installing Pup-Grass® over a hard surface, it is recommended that Pup-Drain™ Mat be installed between the surface and Pup-Grass. This will raise the Pup-Grass® enough to allow liquids to drain away from the grass and also provides protection for the grass backing rubbing on hard surfaces. Asphalt surfaces must have a drainage mat to protect the backing from oils and chemicals emitted naturally.

Seaming Pup-Drain ™

Install over smooth clean surface. Fill any low areas in asphalt or concrete with leveling agent. It is recommended that the drain is installed during the warmest portion of the day, so that it is at or close to its maximum thermal expansion when installed. Unrolling the rolls and letting them relax prior to installation will help Pup-Drain™ lay flatter during installation. Joining sections of Pup-Drain can done using Self Adhering Rubberized Asphalt Flashing or directly nailed into asphalt.

PLEASE NOTE: Be sure to have the flange facing the center of the field and the non-flanged edge to be nailed to the header/nailer.
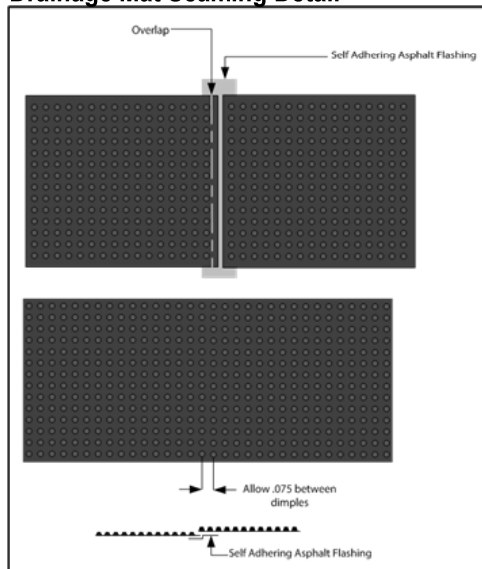
Note: Do not glue Pup-Grass to concrete or asphalt. This will prevent the grass from draining properly.

WonderEdge ™ is an above-grade perimeter frame specifically designed for **artificial grass**. It is used in lieu of your typical **artificial grass** landscaping bend-a-board to separate your **lawn** area from planter areas and/or areas where you have no natural restraint such as a sidewalk, patio, driveway, or walkway. It can be installed over base material, or on top of concrete or asphalt. Please see Page 6
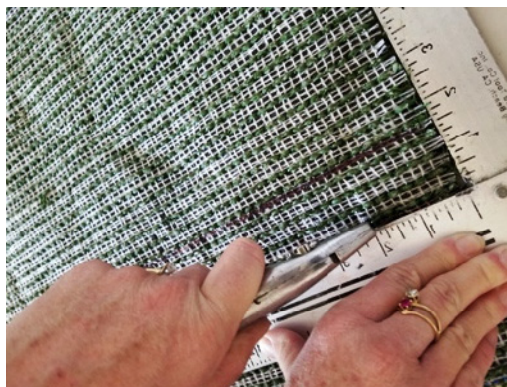
Odor Control

Use Pup-Fresh Liquid Enzyme Concentrate as needed to keep Pup-Grass smelling fresh and clean. Pup-Zymes is the absolute best Enzyme cleaner on the market with over 30 billion live bacteria per units.
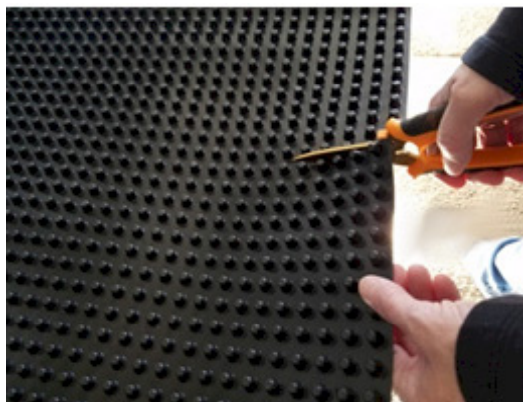
Drainage Mat Seaming Detail

Cutting Pup-Grass®

Measure and mark area. Use a straight edge as a guide. Always cut between the green lines to avoid excess shedding of the edges.

Cutting Pup-Drain™

Measure and mark. Use heavy duty scissors or shears and cut between raised bumps which will act as a guide and allows for a fairly straight cut.

Base Materials Needed:

- Base Rock
- Concrete Sand
- Weed Barrier
- Turf Nails
- Seaming Tape
- Adhesive

Straight Edge

Tools Needed:

- Shovels
- Landscaping Rake
- Wheel Barrow
- Compactor
- Fertilizer spreader
- Hose
- Push broom
- Utility knife
- Measuring tape
- Straight edge
- Chalk line

Cutting Snips

Chalk Line

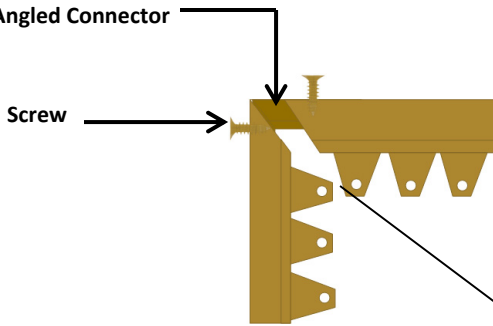## Installing Pup-Grass® over Concrete with WonderEdge™ And Pup-Drain™

Connection Details

45 Degree Angled Connector

Screw

Step 1.
Assemble Frame. Use corner and straight connectors . Secure corners with screws.

Step 2. Square up the WonderEdge Frame Secure WonderEdge using double sided outdoor seaming tape, Epoxy Glue or Concrete Nails.

Step 3.
Seam drainage mat using double sided seaming tape.

Step 4. Cut Drainage Mat approximately 4" shorter than frame so it does not cover nail tabs.

Step 5.Once edging and drainage mat are secure, cut Pup-Grass to size and place over drainage mat.

Step 6. Tuck sides of Pup-Grass under lip of WonderEdge. Stretch Pup-Grass tight and nail one side using concrete nails every 3' - 4' on edges and as few as possible in center of Pup-Grass.
Before nailing make sure that Pup-Grass is stretched tight and there are no visible wrinkles or bumps in the material.

Step 7. Use a broom to brush up nap.