



STEP 1 – PREPARING AREA FOR INSTALLATION OF SYNTHETIC TURF

1. Remove all grasses, sods, mulches, etc. from the marked area.
2. If applicable, cut and cap existing sprinkler lines at sprinkler head and at the valve box.
3. Spray area with a pre-emergent or weed killer to prevent grass and/or weed growth. Take precautions when applying as to not affect surrounding growth such as trees, shrubbery, flowers, etc.
4. Leave ample area uncovered around the bases of trees.

STEP 2 - GROUND PREPARATION

If soil is “loose”, it may need to be compacted prior to the installation of base materials. In the case where the native soils are soft and/or saturated, it is advisable to install a geo-textile to separate the soft soils from the crushed stone base. As a rule of thumb, if there is standing water, or if water comes to the surface under foot, a geo-textile should be used.

STEP 3 - BASE CONSTRUCTION

1. The material used for base of the amenity should be a D.O.T. Class 2 aggregate, with maximum particle size of 1/4", or approved equal. Class 2 aggregate is available in most areas. In arid climates, 2 inches of base aggregate is sufficient. In climates with more rainfall or a higher water table, 6 inches may be necessary.
2. The crushed stone should be spread evenly, as smoothly as possible, and compacted to 90% proctor. A vibratory compactor will suffice on most small projects. A roller compactor may be necessary.

STEP 4 - LAYING OF TURF

1. Roll the Envy Lawn synthetic turf out on top of your constructed based, as planned. If the site requires multiple roll widths, be sure to have the grain of the fibers on each roll of turf running in the same direction.
2. If seaming is required (multiple roll widths), trim the selvedge (un-tufted edge) off of one roll and lay it on the base, in the desired position.
3. Lay the next roll adjacent to the first and overlap one edge of the adjacent roll of turf on top of the trimmed edge of the first roll.
4. With scissors or razor knife, trim the overlapped roll to match the trimmed edge of the first roll.
5. Make all cuts as close as possible without touching.
6. Repeat as needed for as many roll widths as the job requires.
7. Around the borders, trim the turf to match the edges. If a secured or fastened edge is desired, do not secure the edge until most of the infill (Step 6) is installed

STEP 5 - SEAMING

There are two seaming techniques recommended.

1. Adhesive seams.
 - a. Fold the adjacent trimmed edges of two rolls of turf approximately two feet apart the entire length of the seam.
 - b. Mark the centerline of the seam on the exposed base with a chalk line or spray paint.
 - c. Roll out seam tape centered over the entire length of the seam line. Apply adhesive covering all of the seam tape from one end to the other. Depending on the type of adhesive used, you may need to allow time for vapors / gases to escape (flashing). Refer to the adhesive manufacturer's directions. The flashing time required may be dependent on ambient temperature and humidity.
 - d. After adhesive has flashed, lay the edges of each roll of turf directly onto the adhesive/tape, making sure not to bury any grass fibers into the adhesive. Be sure to add weight (i.e. sandbags) down the length of the freshly laid seam, or use a heavy roller along the seam length. The adhesive drying / curing time will vary with different adhesives dependent upon climatic conditions.
 - e. Follow the adhesive manufacturer's instructions.
2. Stapled seams.
 - a. Experienced installers may use a technique that does not require adhesives. Instead, use landscape pins or staples to secure the trimmed seam.
 - b. The trimming technique is the same as 7.a. Remember, with an infill turf system; these seams are hidden by the sand and/or rubber infill.
 - c. This technique is not recommended for high activity level lawns, parks, playgrounds, athletic fields, etc.

STEP 6 - INFILL INSTALLATION

- a. There may be more than one type of infill used on the same site. Depending on the use of the turf, either silica sand, granulated rubber, or a combination of both may be used. In either case, the silica sand is installed first, followed by the granulated rubber. Be sure to follow the site specifications outlining the amount or depth of each infill material.
- b. To properly place the infill materials, a drop spreader (commonly used to spread grass seed, fertilizer, lime, etc.) should be used to spread the infill in lifts no greater than ½" depths. In between the spreading of lifts or layers, the fibers should be brushed upright with a plastic bristle industrial broom or a power-broom. This keeps all of the grass fibers erect and exposed. Fibers trapped underneath the infill may not ever be recovered.
 - Do not use stiff steel bristle brooms that can damage the fiber.
 - Be sure not to "dump" the infill in large quantities on the turf.
 - If the borders or edges are to be secured, save the infill installation for these areas for last.
- c. Repeat the infill spread / fiber brooming process until the infill is evenly spread such that no more than ¾" of grass fiber tips are exposed above the level of the infill. **Caution:** Too much fiber exposed (not enough infill) will cause the fibers to mat or crush with heavy foot traffic. This will lead to premature wearing of the fiber.

STEP 7 - SECURE EDGES (OPTIONAL).

In many cases, securing the edges or borders is not necessary. The weight of the infill alone is enough to keep the turf in intimate contact with the base. If an exposed edge is a concern (because of a curious animal, high activity at the border, etc.), the edges can be secured in a number of ways:

- ❖ Landscape spikes. Simply hammer landscape spikes, timber spikes, sod staples, etc. into the edge at desired intervals. Afterwards, more edge trimming may be necessary.
- ❖ Nailer Board. When installed next to a concrete or asphalt curb, a nailer board / synthetic lumber can be installed (preferably in Step 2, Area Preparation) by nailing the board to the curb with concrete nails. The turf can then be nailed into the top of the installed nailer board with a landscape nail. Afterward, more edge trimming of the turf may be necessary.
- ❖ Buried Edges. Excavate a narrow trench around the border, deep enough to bury the exposed edge of the turf. Tuck the turf's edge into the trench (additional trimming of excess turf may be necessary), backfill the excavated soil against the buried turf, and compact. The edge can then be hidden with mulch, straw, rock, etc.

STEP 8 - FINAL INFILL

If a secured edge was installed, it will probably be necessary to add infill around the border. Use the technique described in Step 6; Infill Installation.

STEP 9 – SELL THE LAWNMOWER AND ENJOY YOUR NEW SYNTHETIC LAWN!!!

