

INSTALLATION INSTRUCTIONS (Over Concrete, Putting Greens, and Rooftops)

Artificial Turf over Concrete

1. Be sure the surface is clean, smooth, and free of debris.
2. Next, align turf pieces (if more than one) to cover area prepared to be installed.
3. Trim salvage edge of one piece of turf (if seaming multiple rolls). This can be done with folding over the edge to expose the back of the turf.
 - a. Depending on turf type, you can follow a stitched row for a straight cut.
 - b. If a secondary backing is present (foam or felt backing), pull edge of turf to center of itself and lay flat. At this time a chalk line may be used to make a straight cutting line on the back of the turf.
 - c. Your goal is to make this first cut STRAIGHT.
4. Overlap the next roll approximately 1" over the trimmed edge of the first roll.
5. At this point put trimmed edge on top of untrimmed piece (this will now set you up to make a cut seam); (trimmed edge should be exposed 1" over untrimmed edge).
6. Follow precut edge to cut seam with carpet tool (you will be cutting the bottom piece).
7. Remove trimmed turf from beneath first roll (clean turf under cut edge before seaming in order to keep a clean, smooth, surface free of debris).
8. Repeat process for multiple rolls.
9. Adhering to concrete or using a nailer board:
 - a. Adhere the turf to a concrete surface (recommended to glue entire surface down). Next best thing to glue down around perimeter (18" wide strip of adhesive) and glue turf to concrete (18" wide strip of adhesive).
 - b. Nailer boards can also be anchored to the ground. The turf will be stapled to the nailer board (staple every 6"-12" around perimeter). This comes in hand when turf maybe be removed and reinstalled in a different location or defacing the concrete is not an option.

Seaming the Turf

10. Fold back two pieces of turf that will be seamed. Fold back at least 18" each to expose concrete below.
11. Position seaming tape in center of seam.

12. Apply adhesive to the seaming tape using a notched trowel (1/8" notched trowel) to evenly and carefully spread adhesive.
 - a. Leave approximately 1/2" on each edge of tape unglued to avoid gluing sub base material to back of turf.
 - b. If directly gluing to concrete, first glue seaming tape to concrete.
 - i. After gluing seaming tape to concrete, then repeat process on adhering turf to tape.
13. Once spreading of adhesive is completed, it is time to carefully close the seam (at least two people are required for this step).
14. Note that one side of turf fibers will be leaning away from the seam and the other side of turf fibers will be leaning in towards the seam (even if it's a non directional putting green turf). This is important because one side must be laid before the other so no adhesive sticks to the fibers and your seam is clean.
15. Carefully install side leaning away from the seam "first".
 - a. On some products you may be required to close the seam at the same time with both rolls in order to effectively make a nice seam (putting green material.)
16. Next, set second half into the adhesive (longer landscape or fringe products). This will be the side, which the fibers overhang the edge of the first piece. Be careful not to trap fibers under the turf.
17. At this point, a water filled roller can be used to compress seams and spread glue evenly. If roller is not used, walk along each side of seam to properly get contact of turf to the adhesive.
 - a. Adhesive must be completely set before additional stress is placed on the surface.
18. Read instructions on adhesive for drying time. Always follow manufacturer's recommendations.
19. Weighted items (bricks/ wood boards, nothing that could rust on the turf) may be used on the seam to ensure bonding of materials. Leave weights on seams for at least 24 hours.
- 20. *If applying fringe for putting greens, read further.**
21. Trace perimeter shape approximately 24"-36" around putting green (most putting fringe will be this wide).
22. Cut the fringe in sections so that the pile lay is leaning towards the putting green surface (this will enhance the look of your green and at the same time, hide the seam from the green to the fringe).
23. Seams on fringe may have to be cut cross stitch rows (this will keep the pile lay consistently leaning in towards the green).

Installing Sleeves, Cups and Flags for Putting Greens

1. Once base is prepared and compacted (for crushed stone only) holes should be dug.
 - a. For concrete surfaces, holes should be formed before concrete is poured. Add sleeves after concrete cures. Cups and flags will be added after the putting green is installed.
2. Once hole is dug and cleaned out, drop in the sleeve.
3. Next, fill in around the sleeve with extra crushed stone material and compact. This will ensure the sleeve is stable and will not move over time and with use.
4. Cups will be installed after putting green is rolled out, cut and nailed down.
5. Once turf is installed, carefully mark an "X" with chalk before cutting face of turf.
6. Make an "X" with knife in center of the hole and precisely cut around hole up to the edge of the sleeve.
7. Drop cup into sleeve.
8. Add flag assembly.

Rooftop Installs (Suggestions Only)

*As we are not roofers, we cannot recommend installation procedures on rooftop applications. The notes and guide below are simply suggestions from installers on previous rooftop installations. **BE CAREFUL NOT TO PUNCTURE ROOFING MATERIAL.**

1. No nails or screws are to be used unless a nailer board has been installed around the perimeter, by others.
2. Seaming layout should be done, keeping in mind that small length rolls are easier to handle (most rooftops do not have the access and elevator shafts that can handle full size rolls of turf).
3. Once again, roll out turf and trim salvage edges for seaming.
4. Align rolls keeping turf fiber direction the same.
5. See previous steps on adhering rolls of turf to seaming tape (be sure to leave at least $\frac{3}{4}$ " around seaming tape edge so adhesive will not stick to turf and roof material)
 - a. Rooftop terraces do not require and are not suggested to have infill. This is due to keeping less weight on roof structure.
 - b. Turf Outlet makes no guaranty as to weight bearing capacity of existing work areas. Consult with a local engineering firm, contractor, or roofing supplier.