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# American Iron Sports

## Artificial Turf Installation Instructions

Artificial turf can be applied to either concrete or, for a less expensive alternative, aggregate.

If applying to concrete, use the following instructions:

- #1. Be sure concrete has completely cured. Proper curing time will range between 45-60 days. If the concrete is freshly poured, you MUST wash concrete down with liquid Tide. Brush detergent with large headed broom to pull out any remaining chemicals that will not allow adhesive to adhere to the concrete.
- #2. Allow the turf to be unrolled and relax for one hour before beginning installation. Weather conditions need to be between 55 and 95 degrees Fahrenheit and the humidity should be between 10% and 65%.
- #3. When applying the turf to concrete, the turf should be glued down at 100% using the 1/16<sup>th</sup> notched trowel. Using the 1/16<sup>th</sup> notched trowel, the adhesive should cover 12-15 yards of turf. Once the adhesive is applied to the concrete, you must allow 20 to 30 minutes for the adhesive to set up. Do not apply more adhesive than can be worked effectively.
- #4. Once the turf has been applied, a 50 to 70 pound roller should be used on unitary backed turfs and a 35-50 pound roller for foam backed turfs.
- #5. In the even a bubble should develop, do NOT cut or slit open the raised area or bubble. The best way to remove and correct these bubbles is to puncture the bubble with an awl, ice pick or hypodermic syringe and press the trapped solvent gas vapors out with both hands. Allow the carpet to lay back into the adhesive and either sand bag or re-roll the area to develop maximum bond strength.
- #6. If, for some reason, the bubble does not re-bond adequately, the hypodermic syringe can be used with a small quantity of the seam sealer to re-bond the carpet to the floor. After the seam sealer has been injected into the bubble, spread the sealer by hand rubbing and then allow it to air dry for 5-10 minutes before rolling.

If applying to aggregate:

#1. You will need to clear off sod in projected area. You will need to lie 2" of peat gravel and then 2" of an aggregate. Aggregates vary depending on which part of the country you are in. Most people use a decomposed granite or crushed limestone. If this is not readily available in your area, call your local rock quarry and ask for the rock that is the cheapest and compacts the best.

#2. After lying the aggregate, you will need to roll the turf out and allow it to relax for one hour before beginning installation. Weather conditions need to be between 55 and 95 degrees Fahrenheit and the humidity should be between 10% and 65%.

#3. Stake the turf down with landscaping stakes (available at any home improvement store) on all edges, spacing them at approximately 18". This will prevent the turf from expanding and contracting with the temperature and humidity difference.

#4. Locate the cup holes by pressing the turf with your hands until you feel the holes. Using a sharp utility knife with a brand new blade, start cutting the holes out of the turf by making an "X" inside the hole. Holding the turf from the center of the "X", cut tightly around the inside edge of the cup. It is very important to take your time cutting around the inner edge of the cups. Once you have cut the holes out of the turf, take a pair of scissors and trim the loose fibers around the cup.

Seaming Two Rolls of Turf Together:

**For unitary backed turfs (sand filled):** On a hard surface, other than your sub-base, lay the two rolls of turf side by side, green side up to determine where you want them joined. Make sure the "grain" from each roll of putting turf is going the same direction. Once you have determined the location of the seam, flip each roll over so the black side is up. Take a utility knife with a brand new blade and cut between the first and second row of stitching of the turf. Take your time and do not cut into the stitching. Do this for each roll. Cutting between the rows of stitching will create a perfectly straight cut for a tight fit for your putting green.

**For Foam Backed Turfs:** Do not cut a straight line in a turf with a foam backing for seaming, because you cannot see the rows of stitching. If you want to seam sections together yourself, ask us to true-cut the sections at the factory so that the seams will fit together correctly.

It is easy to round off the corners or make it a kidney shape. However, we recommend that you do not make a straight cut unless you use a professional carpet layer.

Flip the putting green back over so that the green is facing up. Make sure the seam fits cleanly together and is tight for the full length of the seam. Once you are satisfied with the seam, move the pieces of turf to your sub-base.

Position the pieces of turf to be seamed on the sub-base. Place the two pieces of turf together to form a tight seam. Position the seaming strip on the sub-base under the seam. Make sure there is an equal amount of seaming strip on each side of the seam. Spread the adhesive over the entire area of the seaming strip and allow the adhesive to set up to 5 minutes before placing the turf on the seam. Make sure the thickness of the adhesive is no more than 1/8".

Starting at one end of the putting green, fold the pieces of turf back together. Press the seam in place as you go, applying pressure to ensure good contact. Once the entire seam has been placed together, walk over the joined area several times. Try not to walk directly on the seam. Be careful not to allow adhesive to seep through the seam. Allow one hour of cure time before finishing the installation process of your putting green.

