



INSTALLATION GUIDE

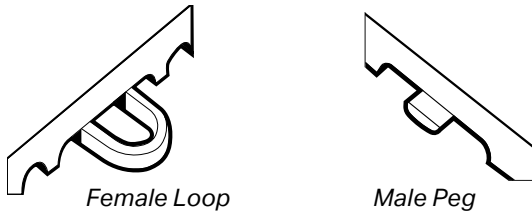
Indoor and Outdoor Athletic Surfacing

Welcome to our winning team!

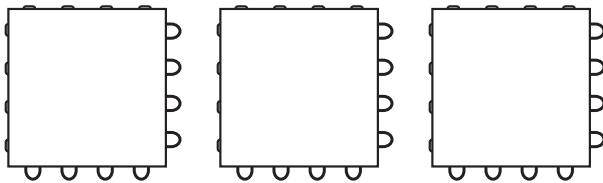
You have purchased a top-of-the-line athletic flooring system from SnapSports®. This system has been built to the highest quality standards in order to provide your family with many years of athletic enjoyment.

GENERAL INFORMATION

The interlocking system, regardless of which surface option you are working with, consists of two parts: the male Peg and the female Loop. The male peg engages with the female loop, locking the tiles together. See illustrations below.

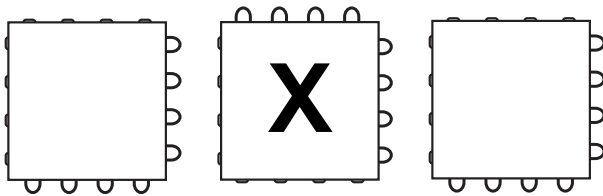


All tiles on any given installation should always have the female loops facing in the same direction. See illustration below.



Correct

CAUTION: If you inadvertently rotate a tile 90 degrees, it will snap into place but you will not be able to complete the installation properly. See illustration below.



Incorrect

Installation Guidelines

In order to reduce material costs and installation time, it is necessary to have an understanding of the products and the necessary installation equipment and tools. Outlined in this installation manual you will find guidance to help ensure a first-class installation for indoor and outdoor surfacing types.

EQUIPMENT REQUIRED:

The following items will be necessary for a complete installation of your flooring system. Many items are optional or may be substituted for similar tools. References made in this guide will be for the tools outlined below:

- 30' and 100' Tape Measure
- Chalk Box with Brightly Colored Chalk (*String can be substituted*)
- 6' A-Frame Ladder
- Utility Razor Knife & Replacement Blades
- Duct Tape for Sealing Underlayment (*Only for indoor flooring installations*)
- Permanent Markers or Marking Crayons
- Masonry Spool with Plumb Bob
- Knee Pads
- Non-Marking Athletic Shoes
- Magnum Shear (*Available from SnapSports: Part #MAGSHR*)
- Jigsaw or Tabletop Band Saw
- Rigid Putty Knife
- 2' Level or Pole

Note: *Tools needed for Game Line Application will be outlined in the Paint Instruction Manual. If necessary, you will find the tools required for the individual SnapSports athletic components in the respective installation manuals.*

Subfloor and Job Site Conditions

SnapSports surfacing should not be installed until all other trades are completely finished in and surrounding the area where the product is to be installed. As per our product specifications, the subsurface should have a level tolerance of $\pm 1/8"$ (3 mm) in any 10' (3 m) radius. Any variation from this should be addressed prior to the installation of the floor. The degree of preparation will vary depending on the condition of the subsurface. A level and consistent subsurface will provide better overall performance of the flooring system. It is important that all dirt and construction debris be removed prior to installing the SnapSports flooring.

Note: Refer to the **SnapSports Resurfacing Procedure** for specific details and guidelines for repair and preparation of existing concrete and asphalt subsurfaces.

Recommended Labor Requirements for Installation

The overall size of the project will determine how much labor will be required. A trained installer can lay down about 1000 sq. ft. per hour. For most jobs one to two qualified installers is all that is required. On larger projects it is suggested to utilize extra laborers that can take direction from the qualified installers.

LAYING DOWN THE FLOORING SYSTEM

This section will cover the installation methods for both indoor and outdoor applications. References made regarding the rubber underlayment will be for indoor applications only. Disregard if not applicable to your specific application.

Installing the Rubber Underlayment (Not to be used for outdoor applications or in conjunction with the Indoor ShockTower® products)

The rolls of underlayment are typically 4' wide by 50' long. Begin on one side of the facility and run the rolls parallel to the long walls of the gym or perpendicular to the backboards. Leave about 1" space from the wall to the edge of the underlayment mat.

Note: This will ensure that the underlayment will not bunch up under the floor after the flooring surface is installed and being utilized.

Cut the underlayment with a utility razor knife within about 1" of the end walls and try to stagger the joints as best you can. Continue to roll out the underlayment and be sure to leave about 1/4" between rolls when aligning them next to one another. Place small pieces of the Duct tape, about 6" long, and place them about every 15 to 20 feet apart when seaming the rolls together. This will help keep the rolls from overlapping each other during the installation of the underlayment. Cut out any areas of the underlayment where access is necessary to the subsurface such as volleyball sleeves or electrical outlets.

WARNING: Do not overlap the underlayment as this will cause unevenness of the tile surface and affect the flooring performance.

Laying out the Facility / Job Site

To begin an installation you will need to locate the center of the facility or concrete/asphalt pad. In most instances you will be required to center the floor off of either basketball goals, volleyball sleeves or other specific variables that may exist for your specific customer and application. In most cases these variables may not be exactly in the center of the room. Assume nothing is correct and you should locate the center of the flooring surface, not facility, by finding the center of whatever variables the flooring is going to be used for. In most instances you will be locating the center of backboards to locate the center of the flooring surface. The easiest way to mark the subsurface for the center of the backboard is to utilize a plumb bob.

The following steps should be used:

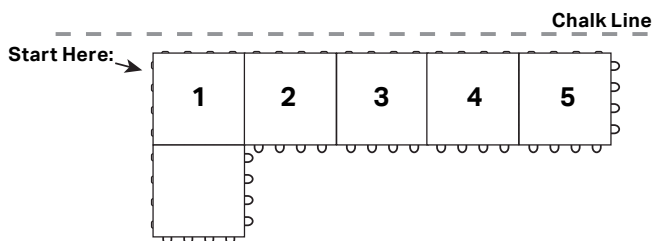
1. Set the 2' Level or Pole over the top of the basketball rim and center it accordingly.
2. Drop the plumb bob to the floor and center the string in the middle of the rim. Let the plumb bob barely hover over the subsurface.
3. Mark the floor with a marker or crayon where the plumb bob is locating the center of the rim.
4. Repeat steps 1 - 3 for the hoop on the other end.

5. Using these two marks and a chalk box, chalk a line down the center of the court.
6. Measure the distance between your two center marks to find the mid-court location and mark this spot with a marker or crayon.
7. Since you know the center of the rims, you can now mark out where the tops of the keys will be. This is necessary to make sure your tile layout is correct for the tops of the basketball keys, as there is generally a color change in the floor tiles at this section.

Note: It will be necessary to have copies of the different game line configurations for each sport that will be played. Most can be found and downloaded for free off of the Internet.

Installing the SnapSports® Modular Flooring

Begin by placing some of the boxes down the center of the floor a few feet off of the chalk line. Lay out the boxes according to the color layout of the floor. Once unpackaged you will see that the tiles have loops on two sides and locks on the other two sides as you read about in the General Information section. Be sure to maintain the same loop and lock orientation throughout the entire installation. See illustration below.



Start the installation of the floor at one end and line up the sheet of tile to the chalk line using the appropriate color tile for the lane. Lay the male pegs of the second sheet of the surfacing on top of the female loops of the first sheet laid down. Carefully step the surface into the mating tile to engage the locking mechanisms.

Continue this for the length of the lane and be sure to use the chalk line as your straight edge to align the tiles. At the top of the key change to the next color and continue installing the floor down the center of

the facility along the chalk line. Make any necessary color changes based on the design and layout of the facility as determined by the customer. Continue to the wall and leave out the last tile that will need to be trimmed later.

Note: Sometimes the color change for the top of the key/lane will not line up based on the distance that you will have between your top of key marks. This will be dictated by the length of the facility and the placement of the basketball systems. In this instance make your color change the same distance from the top of key mark on the subsurface. You can correct the actual distance when painting to make it a regulation distance.

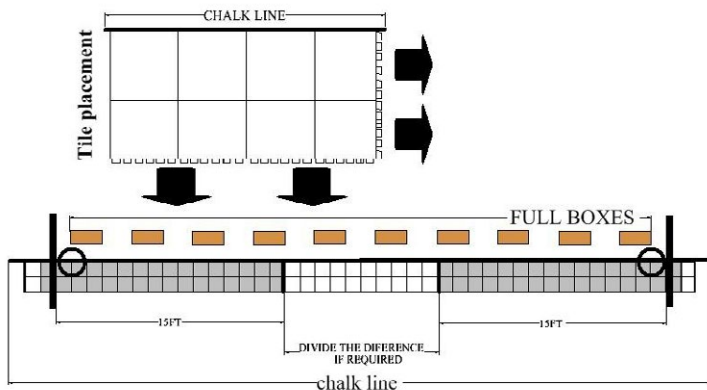
After the first row of surfacing is installed down the length of the court, place full boxes of tiles on top of what was just put down. The weight of the boxes will keep this portion of the floor from sliding or moving off of the chalk line. Once you have another 6 rows or so installed you can remove these boxes and use the product for the remainder of the installation.

Start the next row of modules as you did with the first row. You will continue to snap the male lock into the mating female loop side and continue the installation for that half of the facility. You will go back and install the remaining half in a slightly different manner to be outlined later in this guide. You will install the floor in an "L" configuration. Snap in a few rows down the width of the gym.

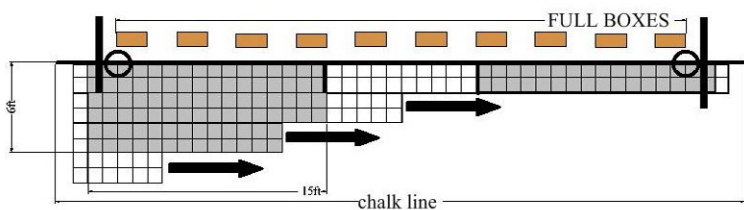
Keep it to a few rows at a time down the full length of the facility. If you go out too wide down the width it is easy to have the surfacing wander and make it difficult to snap the tiles together. Either the "L" will open up or close. The object is to keep a perfect 90 degree angle of your "L" as to eliminate any issues snapping the tiles together.

If the floor has shifted, stop the installation and readjust the floor back on line. You can do this by either hopping the floor back into place or you may have to pull up the section of flooring and drag it into place. Be sure to use non-marking shoes if you are going to hop the floor into place.

See illustration on the next page for an example.



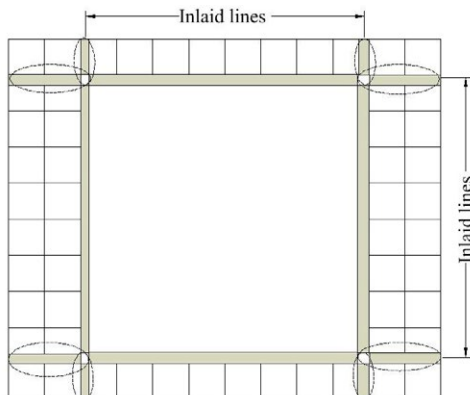
Continue this half of the installation until you come to the wall. Leave out the last row of tile that will need to be trimmed to fit which will be discussed later in this guide. Leave out any tile that come into contact with any obstruction such as a pillar or the sleeve locations for your volleyball standards. Once the first half is complete and looks like the below diagram you are ready to start on the other half. As previously mentioned this half will be installed in a slightly different manner than the first half was. See illustration below.



Installing Inlaid Lines

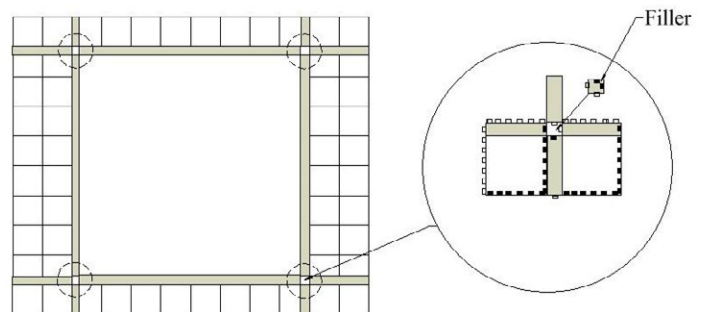
(Applicable for outdoor installations only)

Whenever inlaid lines are inserted the line must continue throughout to the edges of the court. The individual line strips interlock to the tile in the same fashion as snapping the tiles together. The inlaid lines are the same length as the tile and cannot overlap two tiles. The loop and lock orientation for each line will follow the layout of the tiles. See illustration below.



Warning: You will need to install the lines as you are installing the floor based on the predetermined layout as designed by you and the customer. Do not try and go back and install the lines after the floor has been installed. This will create a lot of extra work that is not necessary.

Wherever two lines intersect each other it will be necessary to use a 2" x 2" Filler piece. The filler will be the same color as the lines you are intersecting. As the line has to continue through to the edge of the court, you will use lines that are the same color as the tiles where you do not want the line to show. For example, you want to use inlaid lines for a volleyball court and they are going to be white. The tile color inside the white lines is going to be beige and the tile color on the outside of the white line is going to be evergreen. The lines that continue on the outside of the white lines running through the evergreen tiles will need to be evergreen as well. See illustration below.



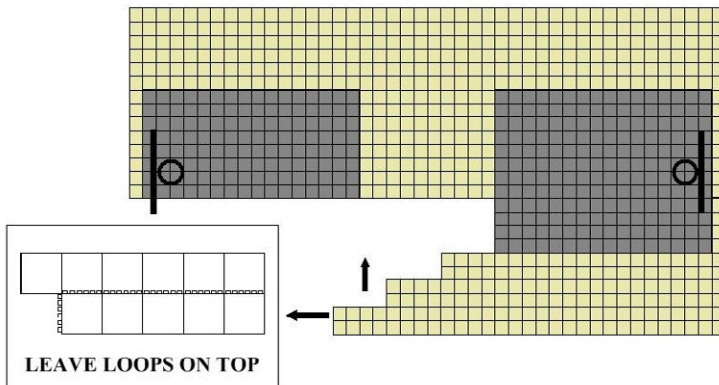
Note: If it is necessary to remove a tile, whether it is for damage, the wrong color module was installed, or an inlaid line was missed, it is not necessary to remove the entire floor leading up to the module that you need access to. Simply locate the loop and lock direction of the floor. You can do this by going to the edge of the court and visually see how tile is oriented. Insert a thin, rigid putty knife between the tile that is to be removed and the adjacent tile. Tilt the putty knife away from the male peg so that the tab unlocks and lifts out of the female loop. Continue this for one edge of the tile enough to make room for your hand to fit under the tile to remove.

INSTALLING THE SNAPSPORTS FLOORING: THE SECOND HALF

The first thing to remember about installing the second half of the surface is that you will always be working back toward the first half or the center line of the floor.

Begin by laying out 4 to 5 sheets of surfacing, this time parallel to the backboard. Don't forget to make your color changes as necessary based on your facility layout. You will need to tuck the female loops underneath the male tabs as you are basically working backwards from how we laid the first half.

After you have secured the first two to three rows of your 5 sheet spread, as you are installing back to the center or the first half, rather than tuck this last row under to interlock them, simply leave the loops on top of the tile. After you get about 12 to 16 feet of surface down with the loops laying on top you will interlock this to the mating side. To do this you will simply lift the half of the surface that has already been down allowing the female loops from the "new" half to fall underneath the male pegs from the existing section. Go back and snap the tiles into place engaging the locking mechanisms for that run. See illustration below.



After the first rows are installed at least halfway down the court you can have another person begin another section. Continue this method until for the remainder of the installation. Be sure to make the color changes where necessary and if inlaid lines are being used (*outdoor applications only*) you will want to make sure

you are putting them in where they go as you are installing the floor.

At this point the flooring should be completed except the trim tiles around the perimeter and any that are to be trimmed around any fixed objects such as columns, net poles, etc.

Trimming and Finishing the Surface

Depending on the size of the court or facility and/or any potential obstructions it will be necessary to either trim the tiles to fit or possibly transition from the sports surface to doorways or other types of flooring materials such as carpet or possibly landscaping for outdoor applications.

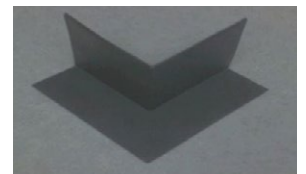
Trimming the Tile

When trimming the tile around fixed obstacles, whether it is the walls or columns of an indoor installation or the fencing or basketball poles of an outdoor installation, it is important to keep in mind that the floor will expand and contract and your trimming should account for that. For indoor installations leaving $\frac{1}{2}$ " to $\frac{3}{4}$ " is usually sufficient. For outdoor installations it will really depend on the size of the court and the location. Generally 1" to 1.5" is sufficient but you will want to keep in mind the time of year when the court is being installed. If the court is installed in the heat of the summer, it is recommended to trim the floor within about $\frac{1}{2}$ " as the floor won't expand much more but will contract when it cools down in the winter.

Note: It is suggested to utilize a Cove Base material to transition from the floor to the wall for indoor installations. Leaving the expansion gap around the perimeter can be unsightly and is a dirt and debris trap. SnapSports offers a 2" Toe Cove Base (Part #COVEBASE) that works well for floating modular floors.

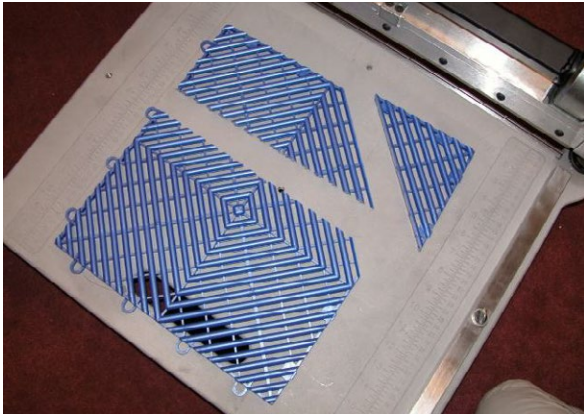


Cove Base



Cove Base Corner

When making straight cuts for the perimeter trim tiles we suggest using the Magnum Shear (Part #MAGSHR). This is the quickest and most efficient way that we suggest for making any straight cuts. If you do not have a Magnum Shear available to you it is also possible to cut the tiles with a table saw, circular saw, or others. See images below.



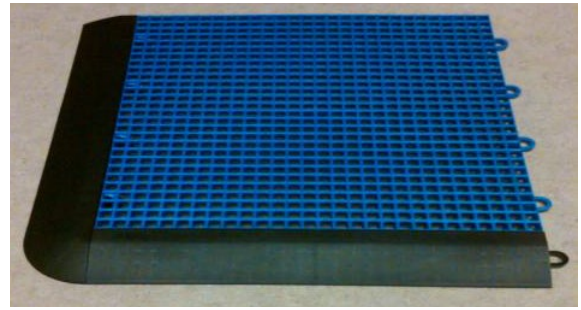
Circular cuts or interior cuts around columns or around volleyball sleeves are best achieved with a jig saw or large hole saw. Keep in mind the expansion and contraction potential of the floor.

Ramp Edging

Ramp Edging is used to finish installations in doorways or any access point onto the floor. The ramp edging snaps onto the edge of tiles in the same fashion as interlocking two tiles together. If ramp edging is not necessary it is recommended to trim off the exposed female loops of the tiles for aesthetics.



Ramp Edging



Ramp Edging on Tile

Note: If the tile needs to be trimmed to fit for a specific location and a ramp transition is still required there are a few options for a reducer transition (Part #REDUCER1/2 for 1/2" products and Part #IBBREDUCER for the 3/4" and 5/8" products) with door kits (Part #DOORKIT6) for transitioning into doorway thresholds.



3/4" Reducer



3/4" Reducer on Tile



1/2" Reducer



1/2" Reducer on Tile



Door Kit Rubber Strip and Aluminum

Your SnapSports® Athletic Surfacing System is now ready for use!

Thank you for choosing SnapSports products.

We are happy to help answer any of your questions. For additional support, please call us at 1-800-664-3865. If you would like to purchase accessories, contact your local SnapSports dealer or visit us online at www.snapsports.com.

