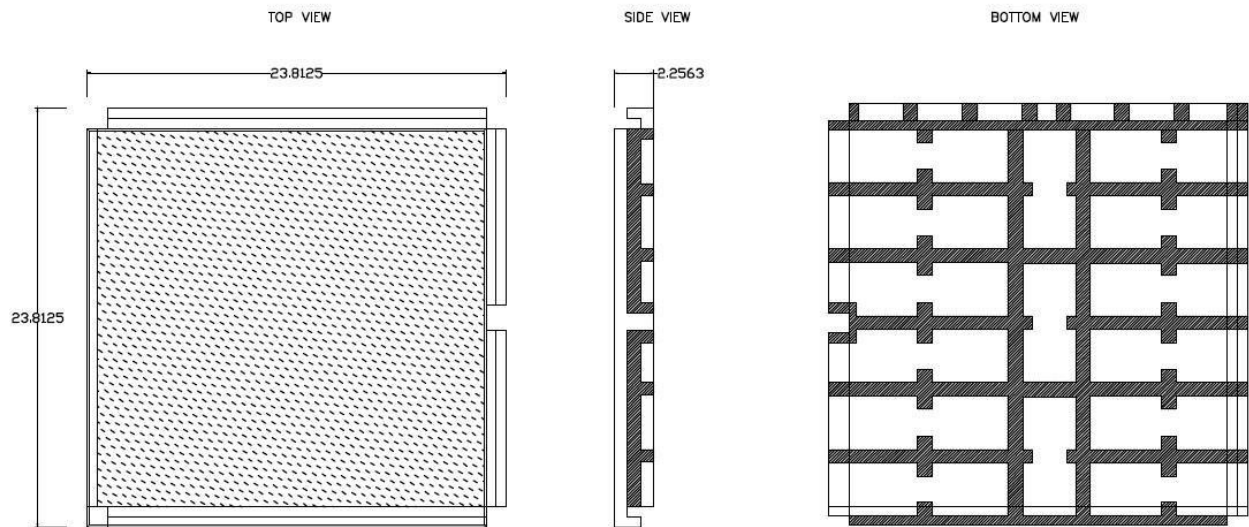


GREATMATS

Blue Sky

Installation Procedures for Interlocking Tiles



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Revised 7/2024

Blue Sky Interlocking Tiles Installation Procedures - continued

Tile Worksheet

Exact measurement per tile ____x____

L:_____ W:_____ Circ _____ Sq. Ft _____ Tiles Needed (+10-25%) _____

A full-page sheet of white graph paper featuring a uniform grid of thin black horizontal and vertical lines. The grid consists of 20 columns and 20 rows, creating a total of 400 small squares. There are no margins, text, or other markings on the page.

Blue Sky Interlocking Tiles Installation Procedures - continued

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Product Storage

Adhesive

Container can rupture if exposed to high heat. Do not store near open flame, heat or other source of ignition. Keep container sealed in order to avoid contamination. Store indoors in a cool, well-ventilated area. Storage temperature should range from -60°F minimum to 100°F maximum. The adhesive shelf life is 6 months to maximize product performance.

Blue Sky Interlocking Tile

To ensure that the product is dry and above 40°F at installation time, the tiles should be stored in a location with temperatures above 40°F for at least 52 hours prior to the installation date. Tiles that will be stored for a long period of time prior to installation should be stored indoors and out of direct sunlight. See further notes for storage during installation.

Blue Sky Interlocking Tiles Installation Procedures - continued

Coefficient of Thermal Expansion

Blue Sky Interlocking Tile is manufactured from a combination of recycled rubber material and polyurethane binding resins. The high composition of rubber based materials make the product susceptible to heat related expansion and contraction. On hot sunny days the following guidelines should be carefully followed to minimize the impact of heat related expansion and contraction on the final installation:

- Keep the tiles stacked, covered and out of direct sunlight prior to installation. Remove tiles from the pallet only as they are needed. By keeping the tiles stacked, the insulating properties of the tile can be utilized, keeping the lower rows of tiles cool.
- Plan to begin your installation as early as possible while temperatures are cooler.
- Plan to apply adhesive during the earlier part of the day before the tile expand too much and end at least 3 hours before the sun begins to set.
- When the temperatures become such that the increased the tile size is preventing proper alignment of the seams, spend the balance of the day making tile cuts for your perimeter and equipment posts instead.
- Many installers often install tile at night to minimize heat related expansion.

Note: For night installation, allow 48 hours for glue to cure properly.

Geo-Textile Storage (if required)

Store all manufacturer supplied Geo-Textile in a dry storage area.

Tools & Consumables

Recommended Tools & Consumables

Like any job, your Blue Sky Interlocking Tile installation will go much smoother with the proper tools. The following list of tools and consumables are recommended for your upcoming project:

- Broom
- Leaf blower
- Aluminum straight edge 30-inch minimum
- 24-inch framing square
- Measuring tape
- Felt tip marker/paint tip marker to mark tiles for cutting (Sharpie™ – metallic silver or equal)
- Chalk line & refill bottle
- String line

Blue Sky Interlocking Tiles Installation Procedures - continued

- Heavy-duty auto lock cutter utility knife and replacement blades
- Jig saw (minimum 5.5 amp or greater recommended)
- Jig saw blades (down-cutting blade; 10 teeth per inch) - Should be 1/4 inch shorter than the thickness of tile
- Templates – for marking post holes for cutting (PVC pipe cut 2" thick in various sizes works well)
- Duct or masking tape to protect adjacent items during adhesive application
- Disposable rags and/or paper towels (adhesive clean up)
- Methyl Ethyl Ketone (MEK), also known as Methyl Acetone or Xylene, for cleaning purposes
- Caulking gun
- Thermometers – for measuring ambient and surface temperature
- U-Notched trowel with 1/4" or 3/8" deep grooves - standard ceramic tile adhesive spreading trowel, for perimeter tile to base adhesive spreading at installation edge

Personal Protective Equipment

- Disposable protective gloves (latex, nitrile or other) – for adhesive application
- Gloves (general work gloves)
- Safety glasses
- Hard hat
- Knee pads

Optional Equipment

- Vacuum cleaner
- Bent extension
- Hole saw – for scoring posts
- Weed sprayer – for moisture misting – low humidity days
- Band saw for volume cutting (scalloped blade)
- Flex curve

Site Survey

Orientation

Note: The final orientation of the installed surface may not be a matter of choice; some consideration should be given to the following items.

Direct Sunlight

- Rubber absorbs heat from exposure to direct sunlight, rather than from exposure to atmospheric temperature. If the surface area is exposed to continual direct sunlight,

Blue Sky Interlocking Tiles Installation Procedures – continued

- design considerations should include lighter colors that reflect infrared light. (Lighter colored surface will provide a modest impact on surface temperatures).

Continual Shade or Damp Areas

- Installation sites with continual shade may remain damp for long periods of time. During warmer temperatures damp areas may be subject to mold growth. Tile surfaces in shaded areas have the potential for mold growth and should be cleaned on a regular basis.

Note: Sun exposure is one of the potential safety threats on playgrounds. Any child or adult can suffer from harmful UV rays penetrating their skin, or they can be burned by play equipment or surfacing that has become too hot from sitting in direct sunlight. Avoid these risks by, implementing trees and other shading devices which can be planned into the design of a playground area for sun protection during times when UV rays are the strongest.

Drainage

Sub-Surface Drainage

- It is important for the sub-surfaces to drain properly for both interior and exterior Blue Sky Interlocking Tile installations.

Naturally Draining Sub-Surface

- If the installation site is elevated with natural drainage, and does not currently collect water, then additional storm water management may not be necessary.

Non-Draining Sub-Surface

- If the installation area is lower than the adjacent grades and tends to collect water, or if water puddles on the sub- surface, then a sub-surface water management system must be installed.

Solid Sub-Surfaces

- If the sub-surface is solid (i.e. concrete or asphalt) and water collects on the surface deeper than 1/4" (0.25") in any area where the tiles are to be adhered to the base, these areas must be filled with patch materials recommended by the concrete or asphalt supplier.

Slope

- It is important that the sub surface be sloped a minimum of 1% toward the water collection drains.

Site Preparation

Note: This manual is not intended as an extensive guideline for installation of aggregate subsurfaces. It is for general information on how a properly built sub-surface is commonly prepared.

Blue Sky Interlocking Tiles Installation Procedures – continued

Pre-Sub-Surface

1. Removal of all Sod and Topsoil

- a. Remove topsoil until solid, packed and stable sub-soil is visible and level.

2. Install water collection system

- a. Survey the site for drainage. Inspect the area after a rainstorm or test with local water supply. If this test results indicates the necessity to install a drainage collection system, then complete the following steps:

- i. Excavate trenches to contain perforated PVC pipe. Top of PVC pipe should be level with bottom of intended granular base. (PVC pipe is preferred over corrugated plastic drain tile because of the tendency for plastic drain tile to become crushed during its life cycle).
- ii. Install perforated PVC pipe with correct slope and connect ends.
- iii. Wrap perforated pipe with landscaping fabric.
- iv. Back fill trenches with 3/4" clean stone. This 3/4" stone should wrap the drainage pipe to a diameter of approximately 12".
- v. Tie drainage system into existing storm sewer or ditch. Restore finished surfaces over trenched areas with appropriate ground cover (sod, etc.).



*SEE ADDENDUM FOR CHECK LIST

Note: A properly designed and installed water collection system is often overlooked during tile site planning stages. The tiles are permeable, and water will pass through the Blue Sky Interlocking system, so it is critical that a proper sub-surface drainage system be installed. Failure to do so could result in damage to the sub-surface and/or the Blue Sky Interlocking Tile surface.

Sub-Surface

The ideal surface for the Blue Sky Interlocking Tile System is a firm and level surface with minimal undulations. For the tiles to be properly glued to the surface, it is critical that the surface is also clean, dry, and free of oils.

Proper preparation of the sub-surface is critical to the long-term success of your project. Due to the importance of proper sub-base preparation, Blue Sky has illustrated a few of the elements specifically addressing the correct sub-surface preparation techniques required to obtain a surface suitable for tile installation:

- The recommended sub-surface is properly cured and installed concrete.

Blue Sky Interlocking Tiles Installation Procedures – continued

- Another alternative available is properly aged and prepared asphalt. To ensure proper adhesion, the oils in the surface cannot be present and the asphalt surface strength needs to be ensured.

Concrete

It is important that the surface be completely dry to avoid adhesive failure. Since the perimeter tiles must be adhered to the concrete or asphalt sub-surface, it is important to ensure that it has cured sufficiently. Normally, this is a minimum of 28 days to allow the concrete to sufficiently cure. This will ensure that most of the moisture has left the sub-surface. Less than 3lbs. moisture per 1,000 square feet is the ideal dryness level before applying adhesive. If the surface has a layer of “cement paste” it should be removed to ensure proper adhesion.

Asphalt

May require longer curing time to allow the oils to dissipate. Some asphalt surfaces may have a significant amount of tars or oils and the adhesive should be tested to ensure adhesion. After the adhesive, has cured and if the tiles can be pulled up with asphalt or concrete attached to the glue, it is the base that has failed, and not the adhesive. There are different qualities of concrete and asphalt.

Tip: Mechanically prepare the area as required. For concrete that does not have a broom finish around the area to be glued, this should be mechanically prepared (sandblasted or hand grinder) then cleaned to remove any dirt or dust. The same is for asphalt but a bond test should be done every time.

Packed Aggregated Sub-Surface (not recommended)

For Packed Aggregate Sub-Surfaces, be aware of the guidelines provided by Greatmats. A properly installed Sub-Surface will help with installation of your Blue Skys Interlocking Tile System.

Installation of Geo-Textile if Necessary

Should the sub-base be compacted granular, the sub-surface will require a covering of geo-textile. A geo-textile is a permeable polymeric textile, non-woven, knitted or woven material used in direct contact with the ground. This is required to protect the migration of granular particles into the tile bottom or settling of tile into the granular sub-base. A suitable product would be (200g per yd²) or equivalent.



Overlap the joints by at least 12". Continuously seal joints with polyurethane adhesive (same material used for tile to tile and tile to base adhesive).

Blue Sky Interlocking Tiles Installation Procedures – continued

Things to test and keep in mind:

1. **Take Proper Measurements Prior to Commencing with Installation.** Since Blue Sky Interlocking Tile dimensions can vary by +/- 3/16 inch, it is very important to connect a row of tiles and take the exact measurement of the entire row and the tiles prior to beginning installation. The theoretical length of 15 tiles should be 30 feet, however, the actual coverage may be slightly shorter or longer. A 24"x24" inch tile can often be 23.8125"x 23.8125" so measure ahead of time and use common sense.
2. **Test sub-surface for proper slope.** This should be minimum of 1%. During heavy rains, water will collect on surfaces with slopes that are less than 1% or if the grade of the surface is not consistent.
3. **Test sub-surface for proper grade.** Frequently, sub-surface preparation is completed under a separate contract to the Blue Sky Interlocking Tile installation. When the subsurface is completed under another contract, it may not be smooth enough for an immediate Blue Sky Interlocking Tile installation because:
 - a) Aggregate sub-surfaces often become disturbed in the time between sub-surface installation and Blue Sky Interlocking Tile installation.
 - b) The sub-surface contractor may not have taken the care and necessary steps to achieve a smooth and compacted surface.

Note: Any undulations in the sub-surface will be visually apparent in the finished Blue Sky Interlocking Tile surface.

4. **Repair or have repaired by the Sub-Base installer all variations in grade that are greater than +/- 1/4" over 10' (in any direction)**

- a) Patch solid sub-surfaces with materials recommended by the concrete or asphalt manufacturer.
- b) The site should have a properly leveled and compacted 1 inch layer of (1/4-inch minus) "chip & dust" or "granite screenings" at minimum. This would be on top of a properly leveled and compacted sub base of 3 to 4 inches of (3/4-inch minus) aggregate of the correct size, type and consistency.
- c) If the surface requires more leveling and smoothing additional aggregate may be required or additional "chip & dust" added and compacted.



5. **Auguring of sites will disturb the existing base surfacing.** Where concrete/asphalt or granular surfaces have been removed or disturbed ensure that the areas are well compacted and sloped away from the posts. These areas should not be lower than the surrounding areas.

Blue Sky Interlocking Tiles Installation Procedures – continued

- 6. Curb heights are typically specified to be the height of the tile surface or higher.** An unlevel subsurface or curb is not cosmetically pleasing. Cutting the base of the tile to match the curb height is not recommended.
- 7. Inspect concrete finish to ensure there are no cracks and/or loose material.** Concrete should have a light broom finish for best surface adhesion. A heavy broom finish will result in a higher than normal adhesive usage. Ensure that there are no significant cracks and that the area is level.

Measuring the Site Dimensions

The size and shape of the surface area is an important factor in determining cuts and how much material you will need to complete the installation. When preparing your initial site layout there are some important things to take into consideration.

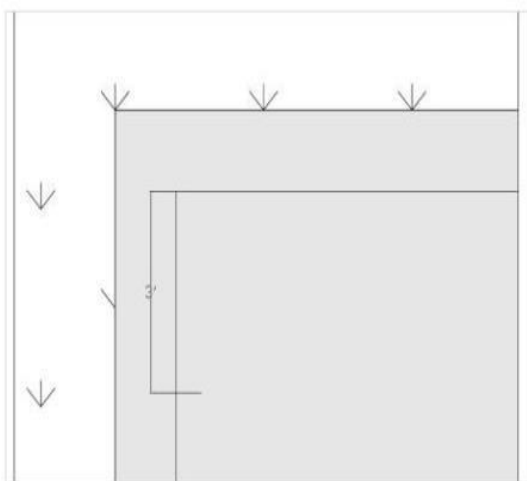
Check Square

It is likely that the surface site is *not* perfectly square or exactly as shown in the drawings. Please keep this in mind, it is the responsibility of the installer to make the right measurements on the ground and take these factors into account.

Prior to beginning installation, it is important to ensure that the string line is square. Ensuring that the string line is square will provide a smooth and neat installation. In order to check for square, we will be using what is often referred to as the “three-four-five” (or “six-eight-ten”) method.

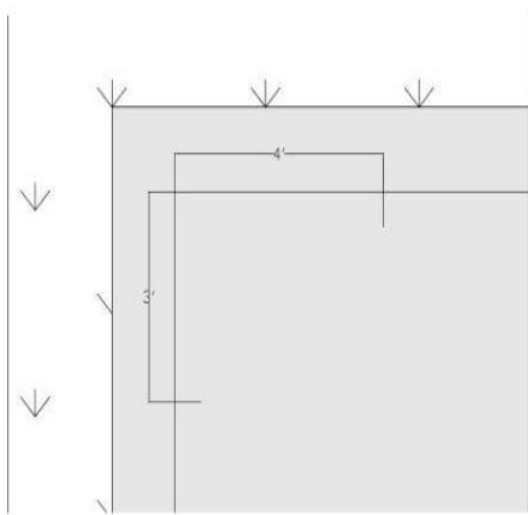
Checking Square Overview

1. Measure 3 feet (or 6 feet) down one side of the string line and make a mark (Fig 4a - Overhead View - Line a-b).



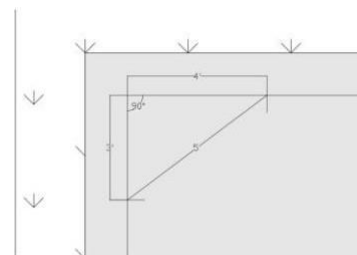
Blue Sky Interlocking Tiles Installation Procedures – continued

2. Measure 4 feet (or 8 feet) down the perpendicular string line and make a mark (Fig 4b - Line 4c).



3. Measure the distance between the two marks at b and c. If the corner angle is square (90 degrees) the measurement between b and c is 5 feet (or 10 feet) (Fig 4c).
4. If the measurement of the line between b and c is more or less than 5 feet (or 10 feet), your lines are not in square and you will need to move one or both of the lines in or out until you reach the 5 feet (or 10 feet) measurement (Fig 4b). The decision on which way to move your lines will depend on the visual effect it will have on the perimeter cuts. The general rule of thumb is to designate the least visual side of your playground for the majority of any uneven cuts.

IMPORTANT: Installing tiles on a site that is grossly out of square is beyond the scope of this installation guide. If you discover that your site is grossly out of square **STOP** and confirm site layout. Consult with the customer or contractor.



- 5: Check to ensure non-encroachment zones (usually 6ft beyond fall zone), fall heights (usually based on deck height or overhead equipment) and the fall zone clearances (meet local minimum requirements (usually minimum 6ft or further for slide exits and for swings double the height)). This is important in ensuring correct tile thicknesses are used to meet the local standards. If this information is not on the work order, check with equipment manufacture/installer and/or customer.

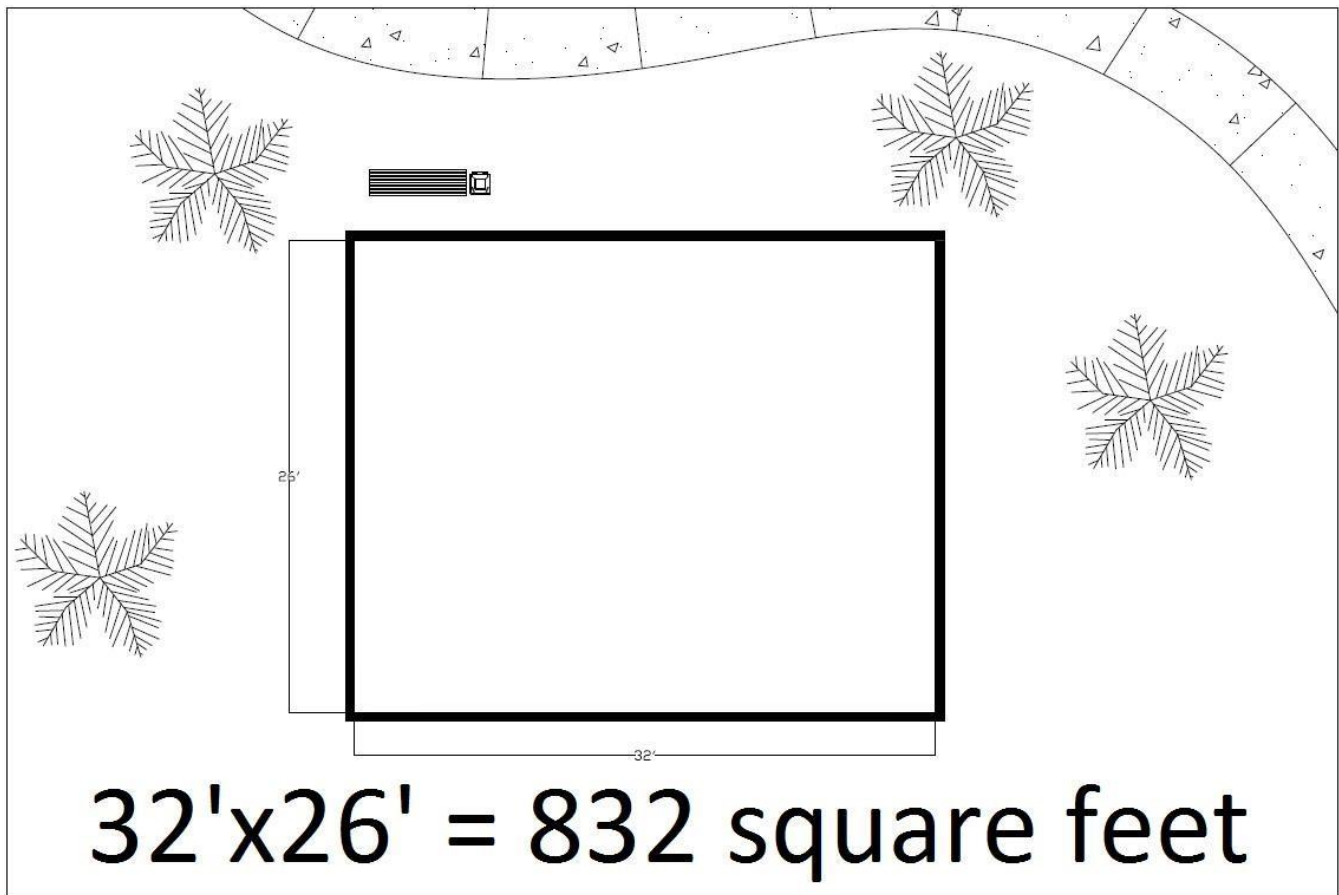
Blue Sky Interlocking Tiles Installation Procedures – continued

Confirm Site Size and Layout

Example:

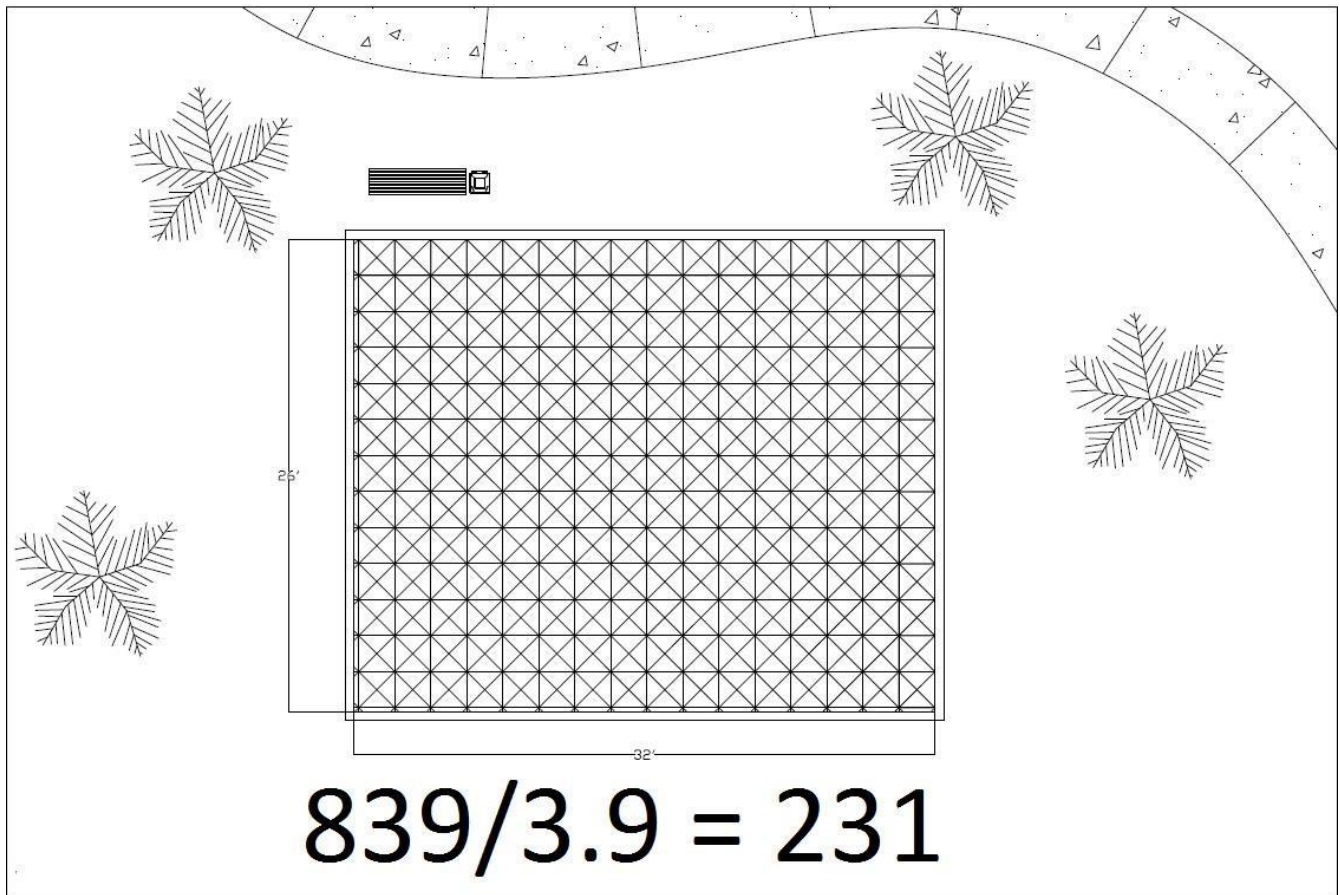
For the following example for a 32'x26' area, we will be using the common 24"x24" size of Blue Sky Interlocking Tile System with the variable 23.8125 x 23.8125 as its realistic size.

First, measure two sides for the width and length and multiply it to find the total square footage of an area.



Blue Sky Interlocking Tiles Installation Procedures – continued

Next, we'll divide this by 3.9, the area of each tile, to find the number of tiles needed for the square footage.



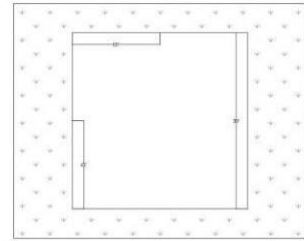
Keep in mind that in most cases more tiles will be necessary than the mathematical result for the area; especially if the surface area is triangular, rounded, or other shape (see Confirm Adequate Materials).

Note: For best results, the string line should be strung just slightly higher than the thickness of the tile. This ensures the string is always visible and the tile can be aligned to the string or used as a measuring point. A chalk line only works as a point of reference until you cover it with the tiles.

When the site is curbed or recessed the rule of thumb is to plan on beginning and ending with a cut piece of tile. This ensures a visually proportionate site when laying the surface out with equal dimension cuts on all sides of the site. In most instances, when ramp edging is not used, plan on beginning and ending with cut tiles of roughly equal dimensions. For visual and safety purposes end tiles should be cut to a minimum of 10 inches.

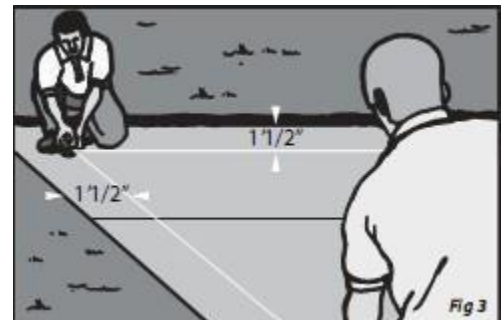
Blue Sky Interlocking Tiles Installation Procedures – continued

- a) Measure and mark the center point on both the length and width of the site [Image 1 - Overhead View].
- b) Given Blue Sky Interlocking Tile manufacturing tolerance of plus or minus $\frac{3}{16}$ ", begin by obtaining an accurate measurement of a row of tiles. Lock together a row of tiles equal to the length and width of the site and measure the dimension.
- c) Using both the measurement from the halfway point to the perimeter and the measurement of the row of tiles, you will be able to determine the size of the perimeter cuts. In our 30'x30' example, the halfway point is 15' and the measurement of the row of tiles at the halfway point measures 14' 11 $\frac{1}{2}$ inches. Installing the full row of 15 tiles without calculating the cuts would leave us with a $\frac{1}{2}$ " gap on each side of our site (Fig 2a). To avoid this we will be centering 14 tiles, which will leave us with a 1' $\frac{1}{2}$ " gap on each side of the site (Fig 2b). By increasing the perimeter cuts from $\frac{1}{2}$ " to 1' $\frac{1}{2}$ " we create a more visually attractive installation (Fig 2c).
- d) String a line parallel to the retainer. The distance between the retainer and the first string line should be equal to the size of the perimeter cuts. Based on our example this measurement is 1' $\frac{1}{2}$ ".
- e) String a second line along the adjacent retainer forming an "L" shaped string line (Fig 3).



Note: For ease of installation install the field of tiles first leaving the outside perimeter cuts until last.

Now that the approximate size of the outside perimeter cuts has been determined, we are ready to string our lines, which will be the basis for the beginning of the installation.



Note: The examples used for these general instructions assume the size of the area and that adjacent walls and support structures are square. In the event non-square walls result in very thin cut-strips at the edge of the layout, move entire layout in a direction that allows cut pieces to be a minimum (cosmetically and structurally) acceptable size. The suggested acceptable size of the smallest cut is 6" inches.

For sites smaller than 3000 square feet, the chalk or string lines can be placed in the position as detailed above. However, if the site is larger, the location for lines when possible should be as close to the center of your site as possible (it is easier to maintain straight lines if posts aren't in the way of your initial tile layout). For larger sites the

Blue Sky Interlocking Tiles Installation Procedures – continued

installations should be installed in quadrants, always working out from the original chalk or string line.

Confirm Adequate Materials

Tiles

Always plan on adding more to your tile order to account for various factors, including waste, which means the exact mathematical amount, is not always the realistic need of the job site. The total area, shape, and size of the site determine what percentage more you may need. Please contact customer service to help determine the additional tiles required for your project. We are available by phone at 877-822-6622 from 7:00 am to 4:30 pm, Monday through Friday, CST.

Note: During a professional quoting and material calculation process extra materials should have been taken into consideration when calculating the initial tile quantities. Commonly 1-tile per perimeter foot is added to the mathematical amount to account for waste and smaller cuts.

It is important to have enough products to complete the entire installation in a single installation session for the following reasons:

Tile Size

As discussed earlier, Blue Sky Interlocking Tile pieces are manufactured to a dimension of 24" x 24" inches, but there is a manufacturing tolerance of plus or minus 3/16th inch. Which means the actual surface size with environmental factors could be 23.8125" x 23.8125" or 24.1875" x 24.1875" with an area of between 3.9 and 4 square feet.

Variance in Color Tones

Blue Sky Interlocking Tile may have a slight variance in color tone from tile to tile. This is due to:

- a) The recycled nature of the raw materials used in the production of rubber safety tiles.
- b) Like new wood, concrete tile, asphalt, or painted surfaces will change color with exposure to UV. This change is not as noticeable when all of the installed tiles change color at the same time. However, like installing a new piece of wood beside an old one, there will be a noticeable difference in the color tone of tiles installed at separate times. Installing all tiles in one session ensures similarity in installation conditions and efficiency.
- c) Installing all tiles in one session ensures similarity in installation conditions in general and efficiency.

Note: Placing these tiles in a less visible area, such as under play decks, can minimize visual effects of color variation. The interlocking tile may also have a temporary color change due to the effects of UV on the thin layer of binder on the top of the EPDM or wear course. This thin layer will be influenced by UV, and appear to discolor the top surface, but will then begin to

Blue Sky Interlocking Tiles Installation Procedures – continued

dissipate exposing the original color of the EPDM granules. These changes range in time, but we have found that in a period of 6 weeks to 3 months, the original color should come back, and stay constant with proper maintenance for the life of the product. This color alteration in the darker colored EPDM tiles is less apparent than in lighter or brighter colored tile.

Multi-Colored Surface

A shop drawing of the installation should accompany multiple colored Blue Sky Interlocking Tile installations with surface patterns. Confirm the shop drawing is accurate to the actual site measurements and customers' expectations prior to commencing installation.

Coefficient of Thermal Expansion - Revisited

As discussed in the Storage section at the beginning of this guide, Blue Sky Interlocking Tile is manufactured from a combination of recycled rubber material and polyurethane binding resins. The high composition of rubber based materials make the product susceptible to heat related expansion and contraction.

On hot sunny days the following guidelines should be carefully followed to minimize the impact of heat related expansion and contraction on the final installation:

- Keep the tiles stacked, covered and out of direct sunlight prior to installation. Remove tiles from the pallet only as they are needed. By keeping the tiles stacked, the insulating properties of the tile can be utilized by keeping the lower rows of tiles cool.
- Plan to begin your installation as early as possible while temperatures are cooler.
- Plan to apply adhesive during the earlier part of the day before the tile expand too much and end at least 3 hours before the sun begins to set.
- When the temperatures become such that an increase to the tile size is preventing proper alignment of the seams, spend the balance of the day making tile cuts for your perimeter and equipment posts.
- Many installers often install tile at night to minimize heat related expansion.

Note: For night installation allow 48 hours for glue to cure properly.

Atmospheric Conditions

Ideal Atmospheric Temperature is above 40°F and rising Atmospheric temperatures should be above 40°F for at least 24 hours and preferably climbing. Viscosity, work life, and final cure time of the adhesive will vary dramatically with temperature. Tile installation is not recommended if/when temperatures are expected to remain below 45°F for an extended period of time.

Blue Sky Interlocking Tiles Installation Procedures – continued

Adhesive

The unique locking design of the tile was probably one of the factors involved in your decision to purchase a Blue Sky Interlocking Tile safety surface. In order to maximize this unique feature, it is important to understand that our locking system was engineered to be most effective when used with the proper quantity and placement of adhesive.

The number and size of tiles and the total area determine the amount of adhesive needed. Always consult the manufacturer for the suggested adhesive. Typically, one standard bottle of adhesive is necessary per 12-15 tiles.

Example: 231 tiles would need a minimum of 15 bottles of adhesive (231/15).

Note: Using too little adhesive, or applying the adhesive in the incorrect location can result in failure of the locking system and could result in voiding the warranty.

Adhering Tiles

Prior to beginning the adhesive application, the following should be considered and verified:

- Only use adhesive provided by or recommended by the manufacturer.
- Adhesive comes ready to use. Do not open glue tubes until preparatory work has been completed.
- Proper application of adhesive to the tile lock joint is critical to the overall performance of your new safety surface.
- Sealing the entire length of the seam will prevent damage caused by the migration of sand and other loose particles into the seams of the product.
- Surfaces must be clean and completely free of moisture.
- Surface temperatures above 40°F degrees and rising are recommended.
- Avoid adhesive applications below 40°F and above 105°F.
- Protective gloves should be worn to prevent skin contact.
- Tiles are glued to the sub-surface with tile to base adhesive.

Adhesive Facts

- Optimum temperature for substrate and sealant is between 60°F and 95°F with 50% relative humidity.
- Adhesive cures by reaction with atmospheric moisture. At low temperatures and humidity, the curing reaction process is slower. Therefore, cure rates are dependent on temperature and humidity.
- Adhesive is workable up to 60 minutes.
- A 30oz Glue tube of adhesive bonds approximately 36-40 lineal feet of tile edging.
- A ¼-inch bead cures in approximately 16-24 hours at 75°F and 50% relative humidity.
- Adhesive requires 5 days curing at 75°F prior to submersion underwater.

Blue Sky Interlocking Tiles Installation Procedures – continued

- Uncured adhesive spills can be removed with a rag and Methyl Acetone (MEK), Acetone or other suitable solvents.
- Cured adhesive can only be removed by mechanical means.
- To clean your tools use a small folded piece of paper or “Q-tip” and solvent such as, Methyl Acetone (MEK).

Preparing the Equipment

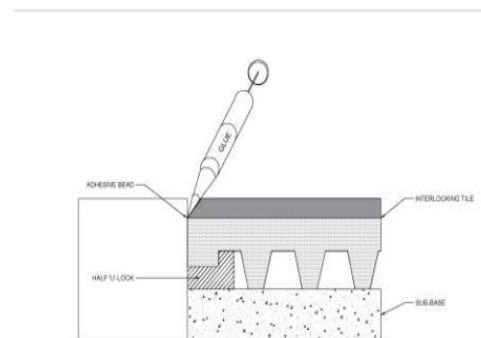
In order to minimize any potential mess during adhesive application, a small set up area should be created using a piece of cardboard or other disposable covering material. Prior to beginning the adhesive application, make sure you have rubber gloves, plenty of rags, utility knife, Methyl Acetone (MEK), Acetone or other suitable solvents for cleanup purposes.

Whether a manual dispensing gun or a battery operated unit is used, the adhesive application procedure is very similar:

1. Open the dispensing unit by pulling back plunger to allow room for the glue tube.
2. Insert the adhesive tube in chalk gun.
3. Hold the dispensing unit upright to allow the tube to slide entirely into the unit.
4. Ensure the glue tube fits in the gun properly.
5. Using your knife cut the adhesive tube at a 45-degree angle to allow for a minimum of a 1/4- inch of adhesive to apply to tile locking mechanism.
6. Avoid adhesive spills and clean up by properly discarding the empty tubes and cut ends of adhesive.
7. If you are unsure of the initial dispensing flow you may consider doing some trial runs to get a feel for the appropriate speed you must travel, as well as how much pressure to apply in achieving 96 lineal feet per tube.

Roll on method

Using a rough nap paint roller and paint tray, coat roller in adhesive removing any excess glue from roller to reduce splattering. Roll on the glue for only one row of tile at a time. For the L shaped pattern, you may precede left to right and up and down. Install each row of tile as you go. The glue should be applied to the tile and not the subbase.



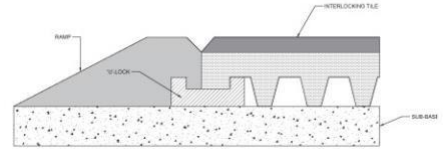
Blue Sky Interlocking Tiles Installation Procedures – continued

Perimeter with Blue Sky ramp

Blue Sky ramps are all manufactured with a female lock.

Ramp interlocking options:

- Placement of the tile to utilize the tile locking mechanism
- U-lock is for locking two female parts.

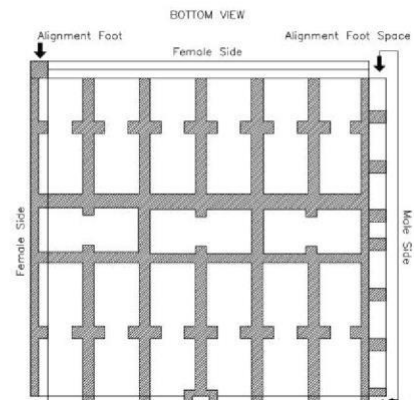


Installing Tiles

Key Installation Method

Our unique interlocking system was designed for ease of installation, however, the process can be challenging if the correct techniques are not used. To maximize speed and efficiency install Blue Sky Interlocking Tiles in the following manner:

- **Place the alignment foot on the bottom of the Blue Sky inside the predetermined 90- degree corner.**
- **Apply 1/4" bead of glue along the wall in the base of male U shaped locking sides before placing next tile in position.**
- **Place alignment foot in top left corner in space provided on each tile locking the female lock on top of the male lock and press in to position.**
- **Once all four locks have been secured, align the seams with all of the adjacent seams.**
- **Adjust the tiles so that it is tight and snug.**



For sites smaller than 3000 square feet, the chalk or string lines can be placed in the position as detailed above. However, if the site is larger, the location for lines should be as close to the center of your site as possible (it is easier to maintain straight lines if posts aren't in the way of your initial tile layout). For larger sites the installations should be installed in quadrants, always working out from the original chalk or string line.

Using the KEY POINT METHOD above, install the first row of tiles (approx. 8 to 10 tile) along the string line gluing only the connecting male lock. The edge of the tile should align with the string. The tiles are designed to fit as tightly as possible to the adjacent tile. Some force may be required to achieve the tight fit; using a rubber mallet or the heel of your foot to align the tiles and insure tight fit normally does this.

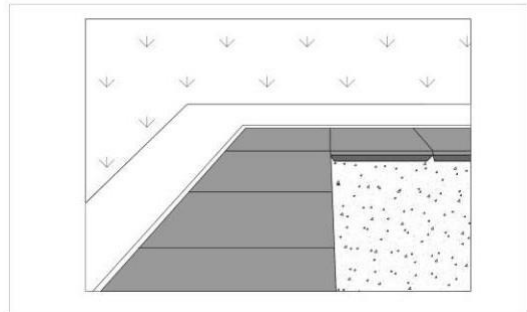
Blue Sky Interlocking Tiles Installation Procedures – continued

Install First Row in L-Shape

Pattern

Installing the Second Row First

- a) Install the second row of tiles along the second string line forming an “L” shaped installation gluing only the connecting male lock. (Fig 5b).

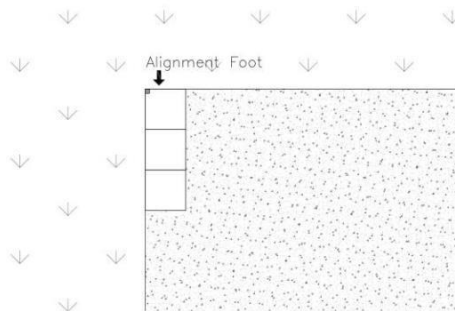


Continue to install tiles inside the L-shape. Be sure to use the aligning technique on each row installed, forcing each row against itself as well as against the adjacent row of tiles (Fig 5 c).

Note: The tile installer must determine the placement of the first row of tile so that the locking mechanism on the tile is utilized.

Blue Sky Installation techniques have been designed so that the adhesion process takes place during the tile installation, to ensure that the tiles are locked in place and properly aligned and tightly fitted and glued to the adjoining tile on all sides.

Tip: Glue can be applied to the entire row of male locks to speed installation.



Attention used to align installation must be given to the amount of force the tiles. Too much force will put the out of alignment.



Blue Sky Interlocking Tiles Installation Procedures – continued

Continue filling in the field of the project using the KEY POINT METHOD and following the “L” shape configuration.

For ease of installation, leave all cuts until last. Do not glue adjacent tiles.



Note: The goal is to make edge cuts for post or against site curbs as tight as possible, to ensure a cosmetically pleasing finish. When marking and cutting the edge or perimeter tile, be sure to cut the tile larger by 1/8 to a 1/4 inch. When marking and then cutting around the post, be sure to cut the hole 1/8 inch smaller than the pole circumference.

Marking and Cutting Tiles

Note: It is imperative that the tiles are in their correct position, fit together tight, and lines are straight before tile measuring and cutting begins. Any cut tiles present additional areas that require support; a U-Lock can be split in order to support the area(s).

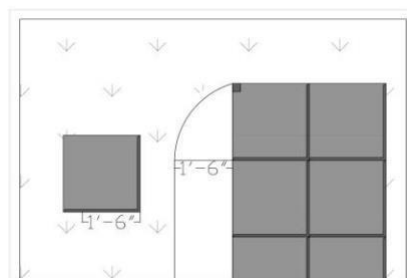
Start to measure, mark and cut from the tile which lies in the direction of your string line whenever possible and work your way out from those starting points (key line). Be sure to install each tile as it is cut, this will ensure a proper fit for the next cut tile. When these cut tiles are installed, the seams need to match neighboring seams. It is critical that as you move through your cut tiles that the seams match the adjacent tile.

Perimeter Marking

Mark any cuts for the perimeter tile pieces in the following manner:

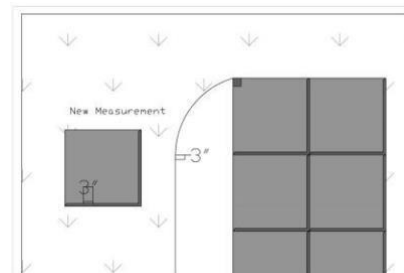
As an example only we'll used a 24-inch square.

1. With a 24-inch square minus the 1" lock, begin on the edge of the perimeter void where the tile needs to be placed and take a measurement from the edge of the perimeter to the edge of the last placed full tile. Transfer this measurement onto the tile that needs to be cut (Fig 6a - Overhead View).



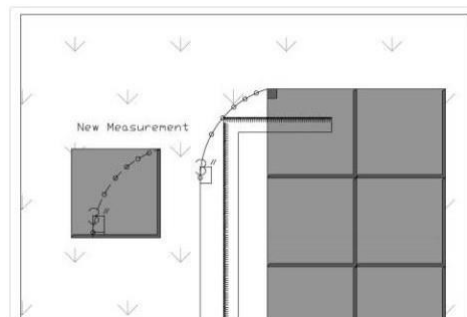
Blue Sky Interlocking Tiles Installation Procedures – continued

2. Move the 24-inch square or the tape measure approximately 3 inches across the void where the tile will be placed and take a second measurement. Move the same distance across your tile to be cut and transfer the second measurement onto the tile (Fig 6b).



Note: Continue this process until enough reference points have been transferred onto the tile.

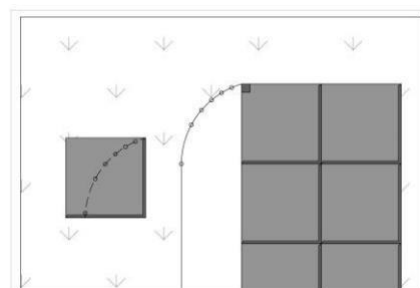
Straight regular cuts may only require two measurements per tile; however, irregular perimeters such as circles will require measurements in 2 or 3-inch increments across the tile. You can slide the square along the curve and get a reading of 'A and B' of pin point any location along the curve (Fig 6c).



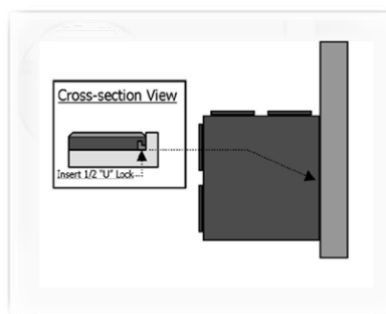
After the measurements have been transferred onto the tile to be cut, connect the markings using a flexible aluminum straight edge and felt tip marker. (Fig 6d).

3. Continue measuring and marking all perimeter tile pieces.

Note: In the event that a full tile is placed against a retainer, it may be necessary to remove the “male” lock to allow the tile to fit flush. The lock unit can be used as support on the female lock side as needed. (Fig 6e)



4. In the event that a full tile is placed against a retainer, it may be necessary to remove the “male” lock to allow the tile to fit flush. The lock unit can be used as support on the female lock side as needed. (Fig 6e)



Blue Sky Interlocking Tiles Installation Procedures – continued

Marking Posts

The diameter of playground equipment posts can vary across the industry. If you are unsure of the diameter of your equipment post you can calculate it by measuring the circumference of the post and multiplying by .31831.

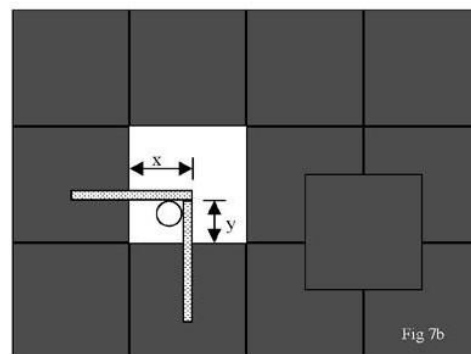
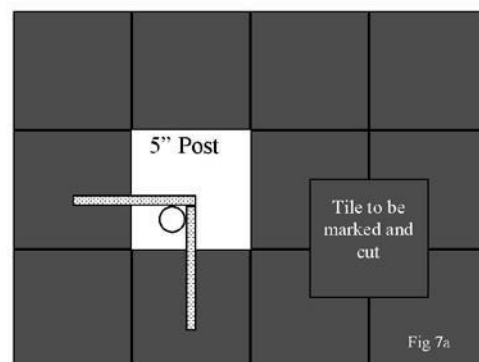
IMPORTANT: It is imperative that all tiles be in the correct position and fit together tight and lines are straight before cutting begins. Always measure from the “key line”.

1. Determine the diameter of your posts and use a purchased template or make a template out of a hard material such as PVC Pipe cut in 2” sections. PVC pipe sizes range from 1 to 8 inches to accommodate most playground equipment post or pedestals. A five-inch diameter post would require a 5-inch or smaller circle for a template.

A 4 to 3/4-inch or 4 to 7/8-inch template would help in obtaining a smaller circle and a tighter finish to the pole.

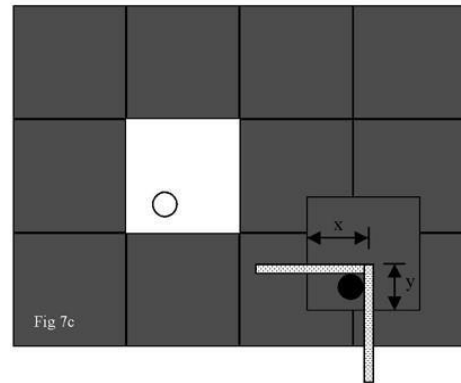
Quick Tip: A 2-foot square and a silver felt tip marker work well to mark tile for cutting, the square allows you to make a small mark in the correct position/location. Do not make large long lines that will be exposed after cutting, try to pinpoint your marks, or at least keep marks as small as possible. Measure twice to make sure you have measured correctly. When marking tile or cutting tile always remember to make the cut a 1/8-inch closer to the pole to ensure a tight fit.

2. For easy visual reference place the tile to be cut near to and in a similar orientation to its final placement position (Fig 7a). When posts are located on a seam, place two tile joined together.
3. Position the pole inside the framing square. Using the square you will be taking two measurements. Measure the exact distance from **x** to key lines of adjacent tiles to outside corner of the square. Follow the same procedure for **y**. (Fig7b)
4. Center the square at the location where your two measurements meet the key line sides of tile. The marking should be in the form of a line as small as possible, but still visible. (Fig 7c)



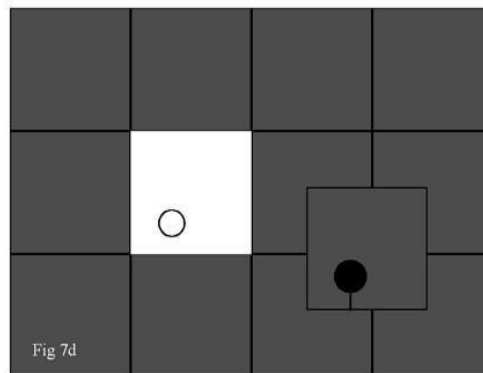
Blue Sky Interlocking Tiles Installation Procedures – continued

5. Place your template into the center of the “square” and mark the perimeter of the template. You are now ready to make your cut (Fig 7c).



Note: If you use PVC pipe you will also be able to mark inside of pipe for a closer cut around pole.

6. You will need to cut into the side of the tile before you make your circular post cut. When doing so you will typically cut the side of the tile that represents the shortest distance from the tile edge to the cut (Fig 7d) Sometimes, however, you may wish to hide this joint or place this joint out of a heavy traffic area. The line should be made in a position that is between the pedestals.



Cutting Tiles

The utility knife is used for straight cuts and the jigsaw is used for straight and irregular cuts. Never start your cut with the jigsaw blade that has teeth, always use your utility knife to make the initial cut from edge of tile to edge of post cut. Use a straight edge or square for straight cuts with the knife. When using a jigsaw for cutting use a 15 to 20-degree back angle on the tile.

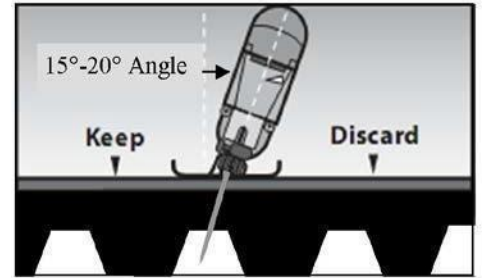
Place the tile on a flat, level, and hard surface. It can remain exactly where you have been measuring as long as precautions are taken so the tiles beneath are not damaged. When using a jigsaw, ensure that the blade is a 1/4 - 1/2 inch shorter than the thickness of the tile when the jigsaw is in the extended position. When cutting with the utility knife, score the area to be cut first. Once a score has been made, apply pressure to the tile to open the score. Placing the tile over a short 2 X 4 will help open up the scored section for cutting with the knife. Opening the score of the tile reduces friction between the tile and the knife making the cut much easier. Continue making passes with the knife working your way through the tile.

Blue Sky Interlocking Tiles Installation Procedures – continued

Cut Holes Smaller or Tile Larger

Since rubber is flexible and has the ability to compress, it is always better to make your posthole cut a fraction smaller than required. This will allow for a very tight fit.

Making the posts cut on a back angle 15 to 20 degrees allows for a tight neat appearance and provides some additional flexibility.



A simple reminder, it's easier to do 2 cuts than trying to “stretch” a short piece!

Pre-Installing Cut Tiles

Always install the cut tile to ensure a proper fit prior to trimming the bottom of the tile for surface mount plates and nuts if needed. We recommend installing all post cuts before going back and trimming the bottom of the tile.

REMEMBER - When in doubt, measure twice, cut once!

Application Methods

Note: Installation of ramps should be completed during the cooler part of the day.

When a transitional edge piece is used, on the female sides of floor, you will need to use a U-lock. Place a U-Lock under both the tile and ramp or transition piece apply glue on both sides of the U-lock to ensure bond.

Adhesive Application Methods

Adhesive application methods vary slightly depending on the type of installation and the substrate that the system will be placed on. Regardless of the substrate used, all Blue Sky Interlocking systems have minimum adhesive application requirements.

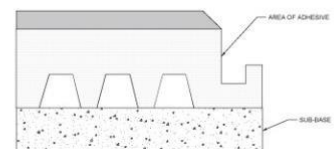
Note: Specific application instructions for tile-to-tile adhesion will be addressed later in this section.

Tile to tile adhesive is properly placed in the interior wall along the base of the u-shaped locking system. Placing the correct amount of adhesive onto the proper location of the product will ensure the long-term success of the installation (Fig 3a).

It is advantageous to start with the gluing of the perimeter tile to the base first. This will ensure that the tile surface will remain tight.

Perimeter to Retaining Wall

For edge and base adhesion which is recommended for outdoor applications:



Blue Sky Interlocking Tiles Installation Procedures – continued

a) Outdoor Installation to Curb

In order to ensure adhesive contact between the tiles and curb, it is imperative that an adhesive is applied between the edge of the tile and the retaining wall or curb.

b) Outdoor Installation with Concrete or Asphalt Substrate

Adhere to Base

Tile adhesion is done by turning the tile over, and applying a 1/4" diameter bead of adhesive along the grid pattern of the tiles or by applying the adhesive to the tile using a rough nap paint roller.

Perimeter to Topsoil/Sod

When the site edging will be an open tile and the surrounding back filled with top soil and sod-cut the exposed male locking sections and glue it into the female locking sections, creating a stable edge and minimizing the likelihood of the migration of topsoil, grass and other debris under the tile surface.

Playground Post Cuts

Adhesive should be applied in the cut from tile edge to post hole.

Application Tip

The adhesive application tip must be cut to allow a minimum of a 1/4" bead of glue when applying glue to the locking parts of the Interlocking tile. To minimize seepage, pay careful attention to ensure that the correct amount of adhesive is being applied. Too little adhesive will affect the performance of the locking system. Too much adhesive will result in overflow requiring removal of the excess adhesive the following day.

Adhesive Application Techniques

Storage of adhesives prior to use in a climate controlled environment will ensure proper and consistent flow rates and ease of application, especially during cooler temperatures. It is recommended that the adhesive be stored in a minimum temperature 60 degrees.

The ideal quantity of adhesive will provide sufficient contact to both locking parts of the tile. Each tube contains approximately 32 to 36 lineal feet of material.

Because the adhesive is a moisture cure sealant, the sealant can be lightly misted with water when installed in arid climates or when you wish to accelerate the cure rate. A garden sprayer can be used for this purpose.

Blue Sky Interlocking Tiles Installation Procedures – continued

Any excess adhesive should be left to fully cure (approx. 24 hrs.) prior to removal the following day. The excess adhesive can be quickly and neatly removed using a sharp razor knife.

Acetone or other suitable solvents

Mistakes/Repairs will need to be replaced the day off installation to allow best workability of uncured glue. If glue is already cured, you will need a small thin pry bar to create small opening between tiles to cut adhesive with sharp razor knife being very careful not to damage surrounding tiles.

Summary

- Proper application and quantity of adhesive to the Blue Sky lock is critical to the overall performance of the surfacing system.
- Only use adhesive provided by or recommended by the manufacturer.
- Protective gloves should be worn to prevent skin contact.
- Take caution to ensure that adhesive is not spilled on adjacent surfaces.
- Uncured adhesive spills can be removed with a rag and Methyl Acetone (MEK), Acetone or other suitable solvents.
- Cured adhesive can only be removed by mechanical means.
- To clean your tools, use a small folded piece of paper or “Q-tip” and solvent such as, Methyl Acetone (MEK),

U Lock and plug Installation

Please see below for cutting and installing a “U” Lock and “U” Plug in areas where additional support may be needed or required due to types of cuts on Interlocking tile.

Note: During the installation process, it is the responsibility of the installer to determine these areas.



Example of void created by cut, which may require additional support. Greatmats recommends using one of two types of inserts

Blue Sky Interlocking Tiles Installation Procedures – continued



Method (1) requires the U lock listed below and sold separately

After splitting “U” Lock in half, insert one piece in void. Measure, mark and cut to correct height



Half “U” Lock Cut to correct height

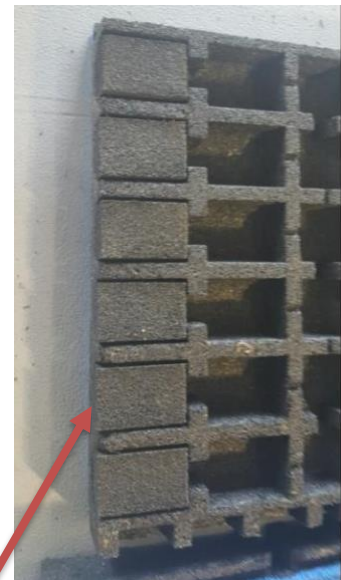
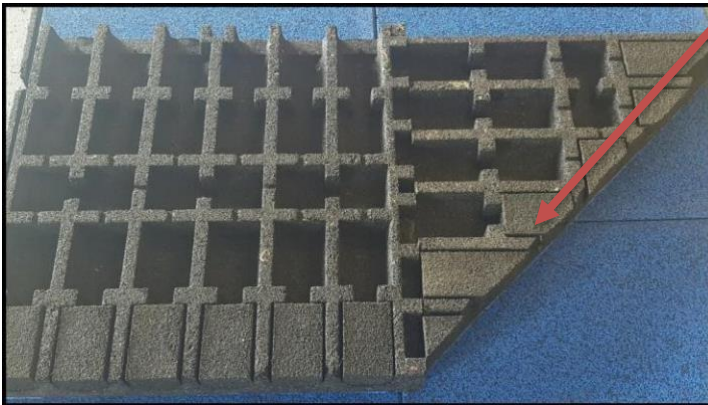
Method (2) requires “U” Lock



Once “U” Lock is cut to correct height, lay in void. Measure, mark and cut

Blue Sky Interlocking Tiles Installation Procedures – continued

Once “U” Lock is cut to correct height, lay in void. Measure, mark and cut.



measure length and place in area requiring cut “U” Lock to correct additional support

Final Installation Details

Remove any Adhesive Spills

“Smeared” Adhesive Spill

Try not to smear further. If a small amount of adhesive is spilled onto the surface during installation, this can be removed immediately by wiping the spot with a rag containing a small amount of Methyl Acetone (MEK), Acetone or other suitable solvents. Use proper handling procedures. Try to “lift” the adhesive if possible from the surface.

Blue Sky Interlocking Tiles Installation Procedures – continued

“Bead-Shaped” Adhesive Spill

If any adhesive inadvertently drips out of the end of the caulking tube onto the Blue Sky Interlocking surface, and this adhesive lies on the tile in a convex shaped bead, with extreme caution it can be lifted immediately (do not smear) with a cloth or knife. If unable to lift it should be removed only after it has partially cured. Area will need to be protected so the area is not walked on. After curing you will need to use a knife to “scrape” the bead off of the tile.

Initial Appearance and Maintenance

Solid Blue Sky Interlocking Tile colors will behave like new carpets when initially installed. The solid, brilliant colors will make the initial dust created by foot traffic very apparent. However, with time, the visible dust tracking will diminish.

Initial Odor

The polyurethane used to bind the rubber tile is 100% inert and odorless after it has fully cured. Full curing can take up to several days depending on atmospheric temperature and moisture. The odor may take longer to dissipate for indoor applications because of the confined area. The rubber may also have a slight odor.

Sealant

It is Greatmats’ recommendation to only apply sealants that are manufactured specify for the Blue Sky Interlocking Surface. Should you have any questions about sealing or coating the surface of the Blue Sky Interlocking product, please contact our office at 877-822-6622.

Routine Maintenance

Routine Maintenance Extends Life and Enhances Appearance.

Like any surface, a good routine maintenance program will enhance the longevity and appearance of the Blue Sky Interlocking surface. Failure to comply with a maintenance program could result in invalidating the warranty.

Blowing/Sweeping

Using a leaf blower is the best way to remove any loose debris from tile surface and seams of connecting tile. Not all play areas will accommodate a leaf blower. Sweeping the surface will be the most common method of keeping the Blue Sky Interlocking surface clean. However, because of the porosity and granular texture of the surface, it is difficult to remove all contaminants by sweeping alone.

Vacuum

Periodic vacuuming is recommended in areas where sand is frequently tracked onto the surface.

Blue Sky Interlocking Tiles Installation Procedures – continued

Water Hose

Use a water hose with a pressure spray tip to remove contaminants from porous top surface. This is easier than using a broom. However, interior installations may place restrictions on water usage.

Cleaning Agents

Blue Sky Interlocking Tiles can accommodate moderate use of most household or biodegradable detergent that contain both odor suppressants and disinfectants. Dilute this cleaning agent as recommended by the manufacturer. Apply to the surface using a mop or scrubbing device. This will remove most light stains.

Advanced Maintenance

Depending on frequency of use, Blue Sky Interlocking Tile will occasionally need a “deep clean”

to remove built up dirt and stains.

Steam Vacuum

A steam vacuum with or without cleaning agents is ideal for advanced cleaning and maintenance. Follow instructions.

Power Washing

In areas that can accommodate power washing, use a power washer with a wand tip.

Extend-A-Life roll on varnish

Extend-a-life is a roll-on application that will rejuvenate the color of the standard SBR top tile. This application is only cosmetic and will have no adverse on the CFH.

Note: Manufacture recommends adding Extend Life after three years depending on playground uses.

Blue Sky Interlocking Tiles Installation Procedures – continued

QUICK CHECKLIST

INSTALLATION CREW/PEOPLE ON SITE

Company Name _____
Employee Name(s) _____
Personel Protective Equipment (PPE) _____
Tool List _____

PRE-INSTALLATION SITE INSPECTION CHECKLIST

_____ Surface Condition Surface
_____ Cleanliness Surface Planarity
_____ Surface Compaction

_____ Site Dimensions
_____ Materials Received
_____ Atmospheric Temperature
_____ Surface Temperature
_____ Fall Heights and Zones

POST-INSTALLATION SITE INSPECTION CHECKLIST

_____ Cleanliness
_____ Joints Tight
_____ Cuts Accurate Tight
_____ All Seams Adhered
_____ All Edges or Cuts Adhered

Use Installer Inspection Sheet

GENERAL COMMENTS & PHOTOS

Blue Sky Interlocking Tiles Installation Procedures – continued

QUESTIONS

PRODUCT STORAGE

1. What materials will you need to properly store?
2. How are the materials recommended to be stored?

TOOLS & CONSUMMABLES

1. List the safety gear that may be required on the site
2. List the recommended tools required for site preparation.

SITE PREPARATION

1. What types of surfaces are ideal as a sub base for a Blue Sky Interlocking Tile installation?
2. What is the recommended surface slope for any site?
3. What should be done to prepare the differing types of surfaces for a Blue Sky Interlocking Tile install?

PRIOR TO TILE INSTALLATION

1. List at least 5 items that should be remembered or checked for in preparation of an installation
2. How does temperature affect the installation?

CONFIRM SITE SIZE

1. What is the tile tolerance of a Blue Sky Interlocking Tile?
2. What are the steps taken to layout the site after you have taken the site dimensions?
3. How do you check square?

INSTALLING TILES

1. At what two locations may you begin laying out the tile?
2. What tile do you lay first?
3. What tile do you lay last?
4. What is critical when laying tile?

MARKING & CUTTING TILE

1. What tools are required for marking the tile?
2. What tools are required for cutting the tile?
3. What is critical when cutting tile?

ADHERING TILE

1. What tools are required to adhere tile?
2. What is critical before adhering tile?

PERIMETER FINISHES

1. What are some of the differing perimeter finishes that have been used?
2. How do you do to finish these different types of perimeters?

FINAL INSTALLATION DETAILS

1. Before leaving the site what should you do?

Blue Sky Interlocking Tiles Installation Procedures – continued

INSTALLATION INSPECTION FORM

Facility or Site Name: _____

Inspection Date/Time: _____

Address: _____

Installation Date(s) & Weather Conditions: _____

Installation Company: _____ Crew Leader: _____

___ Include list of all installation team members on site

___ Include photos of before and after shots

___ Record temperatures and weather each day while on site

1. SUB SURFACE CONDITIONS	Yes	No	COMMENTS
Concrete Curbs.....	___	___	_____
Concrete Keyway Under Ramp and Tile....	___	___	_____
Width of Key way _____			_____
Concrete (preferred surface) Cured.....	___	___	_____
Old ___ New _____			
Asphalt.....	___	___	_____
12Inch Concrete Key Ways.....	___	___	_____
Old ___ New _____			
Ground Off Surface to Granular.....	___	___	_____
2. SITE CONDITIONS - General			
Cleanliness of Site.....	___	___	_____
Damage.....	___	___	_____
Vandalism.....	___	___	_____
3. SITE CONDITIONS - Installation			
Surface is Level - No Undulations.....	___	___	_____
Tiles and Joints are Straight	___	___	_____
Cuts Accurate and Tight	___	___	_____
A round Posts	___	___	_____
At Curbs	___	___	_____
4. ADHESIVE			
All Joints Adhered 100% - Level to Bevel...	___	___	_____
All Edges and Cuts Adhered 100%.....	___	___	_____
Excessive Adhesive Removed.....	___	___	_____

Blue Sky Interlocking Tiles Installation Procedures – continued

5. SECURE SURFACES	Yes	No	Comments
Edges Secure and Firm	____	____	_____
At Posts Secure and Firm	____	____	_____
Ramp Secure	____	____	_____

I hereby certify that the above areas are either in good working condition or deficiencies have been forwarded to the appropriate office.

Site Inspector:_____

Site Installer: _____

SEND A COPY TO

Greatmats.com:
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Milltown, WI 54858
info@greatmats.com
fax 715-825-4928

