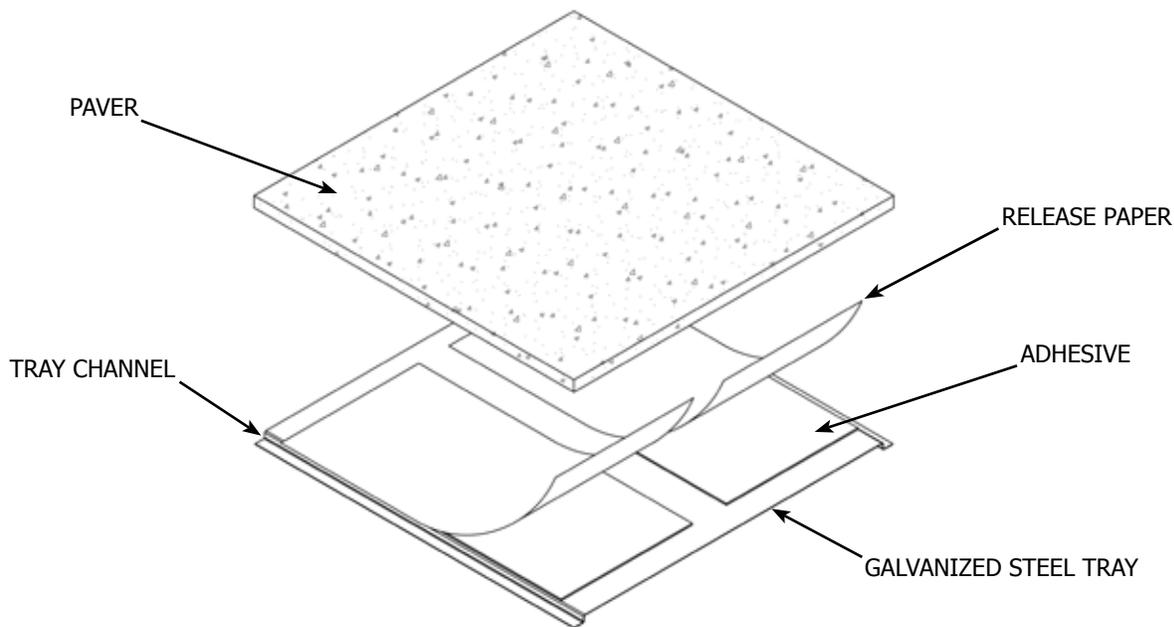




Bison Paver Tray Installation Details

Designed for use with Bison Pedestals, the Bison Paver Tray* offers a simple and lightweight paver backing to enhance the impact resistance and provide additional strength to paver surface materials for outdoor areas. The Bison Paver Tray meets ASTM E136 Non-Combustible Surface testing requirements** and is manufactured in the USA from weather resistant galvanized steel. The Bison Paver Tray features a peel and stick adhesive pad which allows for a mess-free bond to the desired surface paver.

Recommended for use on Bison Pedestals ranging from 1/2" up to 36" in height, the Bison Paver Tray attaches to Bison Pedestals using the Bison FS-12 fastener*. The standard 595 mm x 595 mm Bison Paver Tray is compatible with square pavers measuring 595 mm - 602 mm x 595 mm - 602 mm. *Note: See Bison Paver Tray Cut Sheet for additional Paver Tray sizes.*



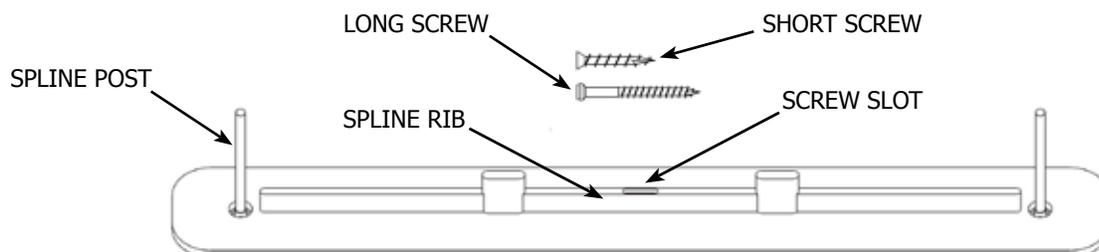
Fastening System

When using fastening components, Bison requires 3/16" spacer tabs on pedestals.

FS-12 Spline

The FS-12 spline secures Bison Paver Trays to Bison Pedestals ranging from 1/2" up to 36" in height. The FS-12 can slide along the paver tray channels to release individual pavers after installation.

When installing an FS-12, use the long screw for adjustable pedestals or the short screw for HD50 and HD75 fixed height pedestals. Using the wrong screw could cause damage to the roofing membrane. Use the spline posts to slide FS-12 splines into the channel between two adjacent paver tray assemblies. Drive the screw through the center of the spline screw slot and into the center of the pedestal top. Tighten until the screw head base is flush with the top of the spline rib. Remove spline posts with pliers, taking care not to damage the pavers. **DO NOT ATTEMPT TO HAMMER THE SPLINE POSTS.** Use a small screwdriver to manipulate the spline if the posts have been prematurely removed.



*US Patent and Patents Pending.

**Bison Paver Tray and 2CM Paver system (not tested for use with other thickness of pavers or other surface materials).

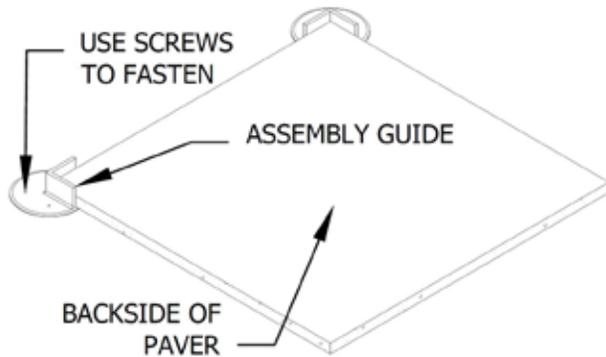
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Adhering Paver Tray Assemblies

Keep Paver Trays cool until installation - DO NOT store in direct sunlight as release paper can be difficult to remove from adhesive.

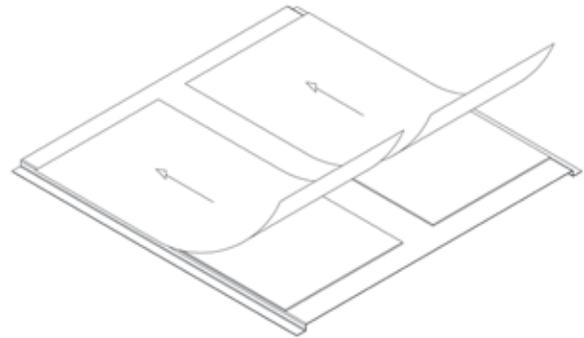
1.) Assembly Guide

Place paver upside down on a clean, flat work surface such as a sheet of plywood. Place an assembly guide flush against two corners and screw down each if possible, being careful to not damage the roofing membrane. Be sure to work carefully with the paver to prevent paver or roof damage.



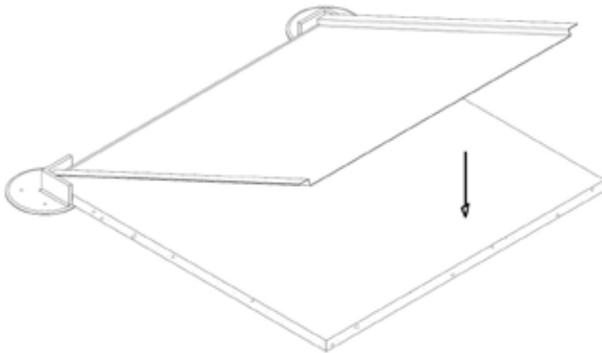
2.) Release Paper

Remove the release paper from the adhesive on the tray, being careful to keep the adhesive free of moisture and debris.



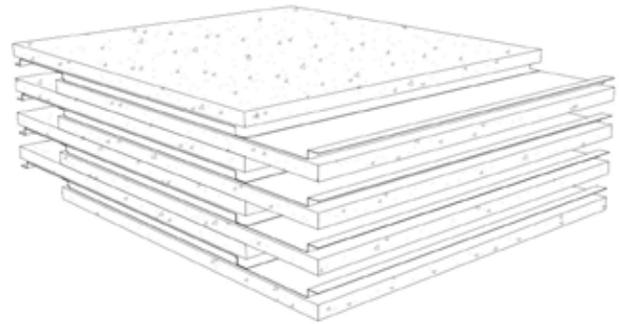
3.) Tray Edge Alignment

Place the tray adhesive-side down over the upside down paver in the assembly guides, and slowly lower the tray onto the paver, making sure to keep all of the edges properly aligned. Firmly press the tray onto the paver, applying even pressure across the entire surface prior to stacking.



4.) Paver Tray Assembly Stacking

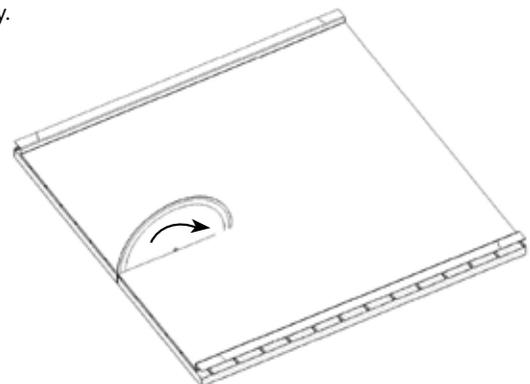
Starting with the first paver face down, carefully stack the paver tray assemblies face to face in a staggered arrangement prior to installation, making sure to keep the stack stable and balanced. Store overnight in a dry area and/or cover with a tarp.



Cutting Paver Tray Assemblies

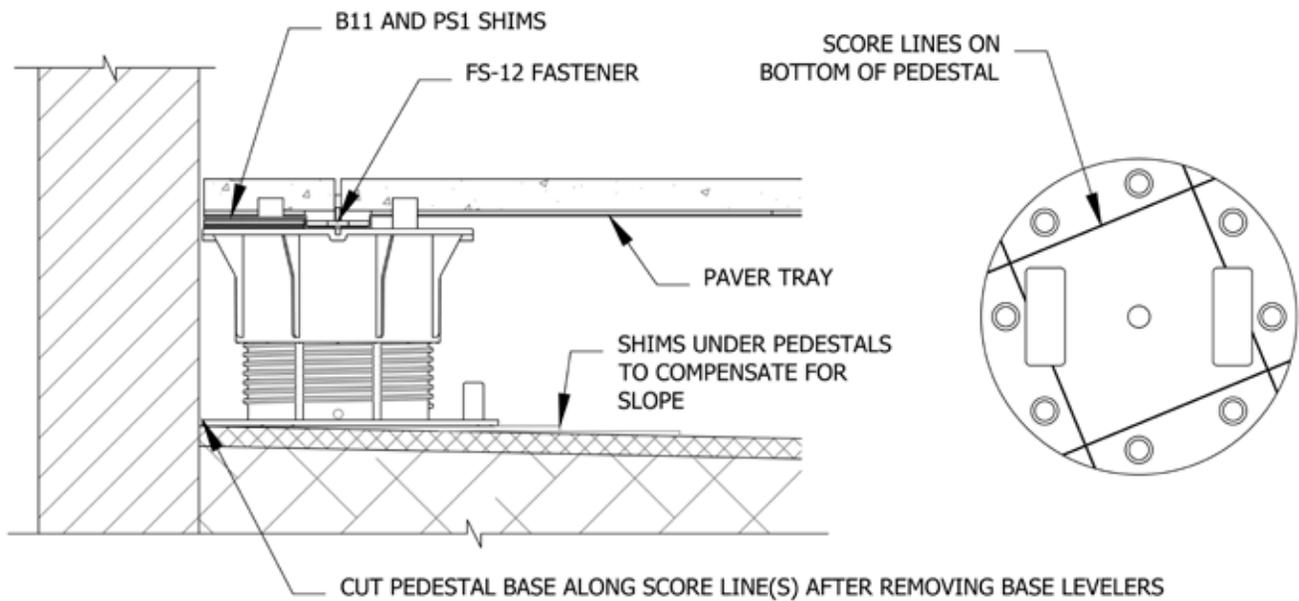
Bison recommends cutting pavers after adhering them to the Bison Paver Tray.

- Use an appropriate wet tile saw and new saw blade (such as Rubi Viper or Dewalt) designed for use with porcelain tiles.
- To minimize the possibility of chipping the paver, Bison recommends cutting paver tray assemblies paver tray side up.
- Once cut to desired dimensions, use a metal file to smooth any sharp edges or burrs created along the cut line. DO NOT run your fingers along the cut line or any visible burrs.



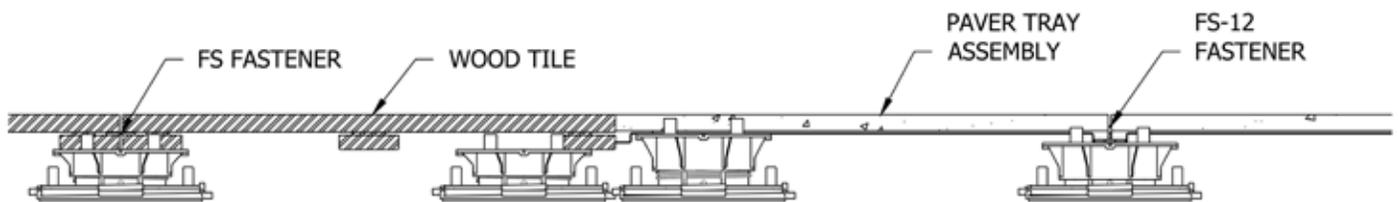
Trimmed Perimeter Paver Tray Assemblies

Cut perimeter pavers must be properly supported by pedestals. In the case of small cut paver tray assemblies around the perimeter, it may be necessary to provide support in the void created by the remaining paver tray channel. In this case, B11 and PS1 shims may be torn in half and placed in combination with one another on top of a pedestal in order to keep the paver surface level. Adhere shims to each other and to the pedestal top with construction adhesive if necessary. Pedestals may also be inverted to provide support in some circumstances. *Note: See Bison Pedestal Installation Details for additional information.*



Paver Tray to Wood Tile Transitions

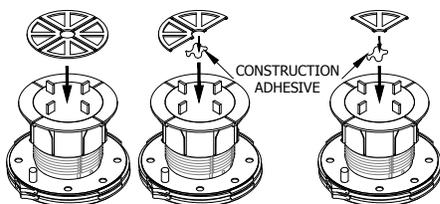
Bison Pedestals can support a variety of surface materials, including 2cm porcelain, concrete pavers, wood tiles, composite materials, fiberglass grating, or conventional joist and plank systems to create unique custom looks. Transitions between surface materials must be properly supported. Be sure to maintain a tight installation and limit space between surfaces.



Working with Shims

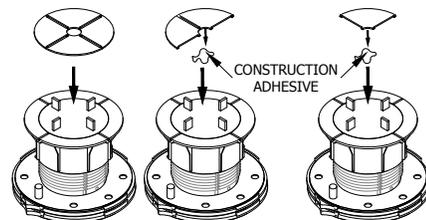
PS1 - 1/8" (3.175 mm) Shims - Plastic

PS1s may be placed on top of pedestals to accommodate for minor leveling of pavers with thickness variations. Use no more than 2 shims. If using only a partial segment, adhere it to the pedestal with construction adhesive.



B11 - 1/16" (1.588 mm) Shims - Rubber

B11s may be placed on top of pedestals to accommodate for minor leveling of pavers with thickness variations. Use no more than 2 shims. If using only a partial segment, adhere it to the pedestal with construction adhesive.



Maintenance Recommendations

Routine maintenance of your paver deck system will enhance the beauty, reduce major repairs, and prolong the life of your deck. Below is a list of maintenance guidelines that should be performed on a regular basis:

1. Check for pavers that rock. If you notice pavers rocking back and forth while walking on the deck, simply lift the paver up and shim one or more corners until the paver is level on all four corners. Bison 1/16" (1.588 mm) B11 Shims or 1/8" (3.175 mm) PS1 Shims are available for purchase.
2. Depending on substrate materials, some settling may occur. Remove the paver and adjust the pedestal until a level height is achieved. You may need to do this to more than one pedestal to level out an area.
3. Clean drains and scuppers on a regular basis. Water should completely drain off the roof deck within 48 hours after rainfall under ambient drying conditions. Standing or pooling water can be detrimental to some waterproofing systems.
4. Periodically check the spacer tabs between pavers, and replace broken spacer tabs immediately. Loss of spacer tabs could create unsafe deck movement.
5. There should be no more than a 3/16" (4.5 mm) gap between pavers or at any perimeter edge, and the deck should not exhibit any lateral movement which could create an unsafe condition.
6. Follow the paver manufacturer's suggestions for upkeep and maintenance of the pavers.
7. Retain extra Bison Paver Trays and pavers in a convenient location for future replacements.

Important

The Bison Paver Tray was designed to provide a simple and lightweight paver backing to enhance the collapse resistance, strength, and wind uplift performance of paver surface materials for outdoor areas. Wind Uplift Systems must be installed in accordance with separate Wind Uplift Engineering documents not included herein.

The Bison Paver Tray will not prevent any surface material from cracking, chipping, or breaking. When using Bison Paver Trays with customer supplied surface materials, including but not limited to concrete, stone, porcelain, and/or ceramic pavers not sold by Bison, the customer must independently verify surface material product strength, span rating, weight bearing capacity, material compatibility, and suitability for the intended use. In the event of surface material cracks, chips, or breaks, the Bison Paver Tray is designed to prevent an individual from falling through the paver surface to the subsurface below. The Bison Paver Tray is intended to support the surface material after absorbing impact for a limited time. To avoid further damage or injury, the customer **MUST REPLACE** any cracked, chipped, or broken surface materials and the accompanying Bison Paver Tray as soon as possible. The Bison Paver Tray is not intended to be a reusable product, and must be replaced with the surface paver.