



Understanding ScrewJack Installation Details

B Tab

3/16" (4.5 mm) integrated tabs

B Top

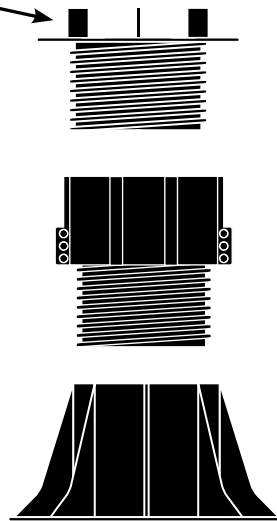
Thread engagement indicators warn of overextension. Do not extend pedestal top beyond this point. Works with B Base or C4 Couplers.

C4 Coupler (Black)

Insert coupler to reach higher elevations. Thread engagement indicators warn of overextension. Do not extend couplers beyond this point. (Item C4 sold separately)

B Base

Thread engagement indicators warn of overextension. Works with B Top or C4 Couplers.

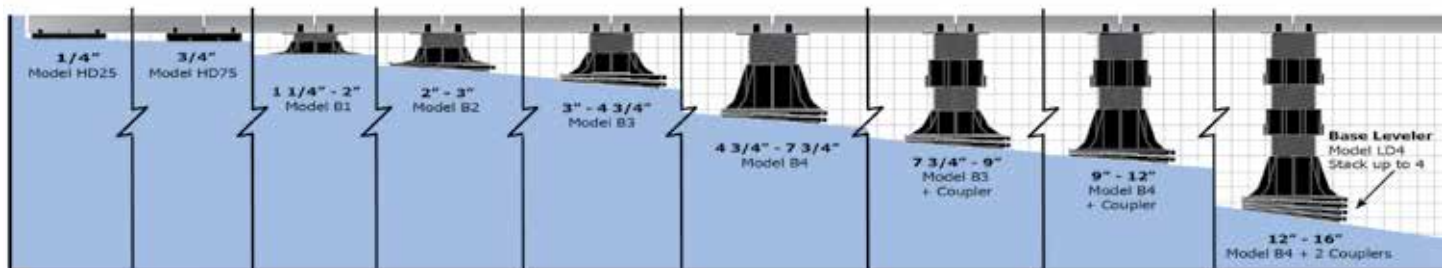


Bison ScrewJack Pedestals are packaged with the top and base fully assembled in the pedestal's lowest height position. To increase the height, simply unscrew. Do not extend the height of the pedestal past the built-in thread engagement indicators unless adding a coupler.

To further increase the height, continue to unscrew the top and base past the thread engagement indicators until they separate. Insert a C4 coupler between the top and base and reassemble making certain that they are both screwed past the thread engagement indicators. Screw or unscrew the C4 coupler while maintaining equal thread engagement between the top and bottom of the coupler for maximum strength.

The Bison Innovative Products (Bison) ScrewJack adjustable B-Series Pedestals support plaza pavers on a structurally sloped surface. Each pedestal utilizes a patented screwjack design that allows the installer to easily adjust the height of the pedestals - even when loaded. Integrated 3/16" spacer tabs ensure accurate spacing, restrain paver movement, and allow water to drain. Placed over the waterproofing surface without penetrating it, they support plaza pavers with ease. Made in the U.S.A.

Available exclusively through Oldcastle Westile, Bison ScrewJack adjustable pedestals are made of durable, high density copolymer polypropylene and are impervious to water, mold, and freeze/thaw cycles. The ScrewJack pedestal line reaches heights from 1 1/4" to 36" and has a 1,000 lb FS:3 weight bearing capacity. Accessories are available to compensate for slope (up to 1" per foot or 8%) and for low height applications from 1/8" to 1 1/4". Use the Bison Brace System for extended cavity height installations from 24" to 36" or for installations where additional stability is deemed necessary.



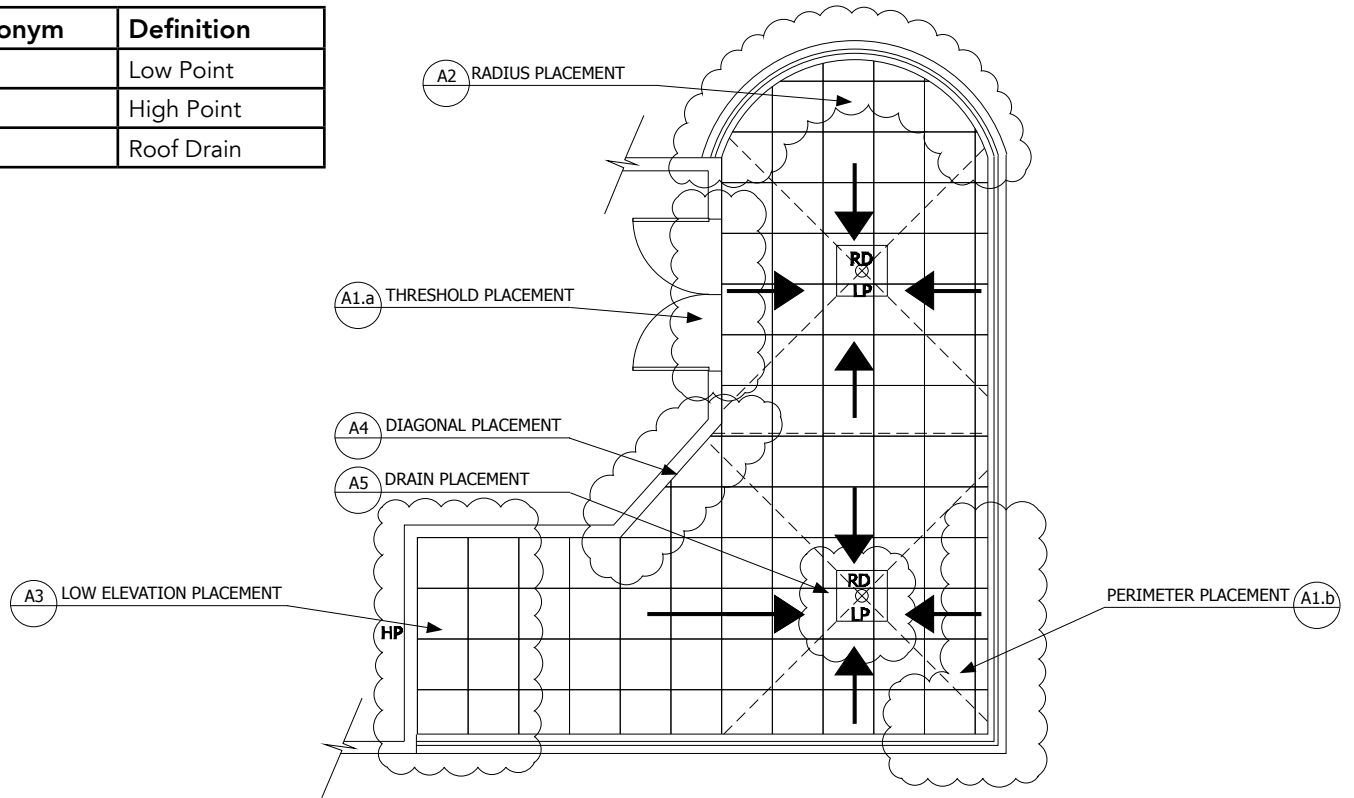
Maintenance Guide

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, 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. To ensure pedestal stability, make sure to not exceed the thread engagement indicators.
2. Depending on substrate materials, some settling and/or deflection can 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 pedestals with broken spacer tabs. Loss of spacer tabs could create unsafe deck movement.
5. Make sure the edge restraint remains intact. There should not be room around the perimeter of the deck in excess of 3/16" (4.5 mm) width which would allow for lateral movement of the pavers and create an unsafe condition.
6. Follow paver manufacturers' suggestions for upkeep and maintenance of the pavers.

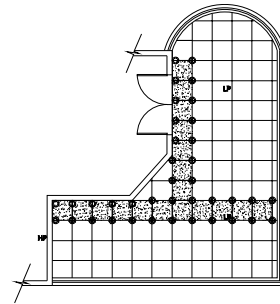
Advanced Layout and Pedestal Placement

Acronym	Definition
LP	Low Point
HP	High Point
RD	Roof Drain



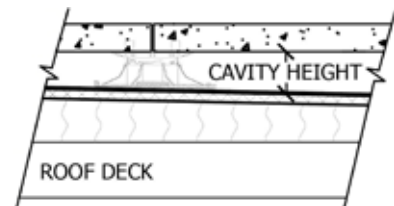
"T" Method Installation

1. Determine cavity heights at all thresholds, drains, and high points.
2. Deduct thickness of decking material.
3. Mark top of pedestal elevation around deck with chalk line or laser level.
4. Plan paver/pedestal layout pattern in advance.
5. Install "T" shaped portion of deck starting from threshold or high point.
6. Adjust to correct height and level.
7. Install on both sides of the "T".



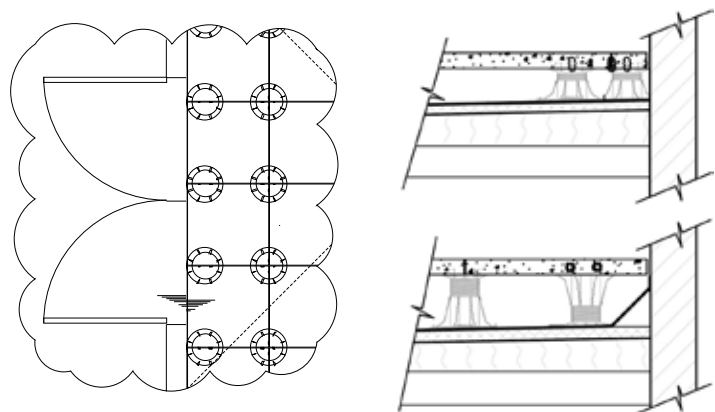
Determining Cavity Height

- The cavity height is the space between the top of the roofing membrane and the bottom of the decking material.
- Use a laser level or chalk line to assist.



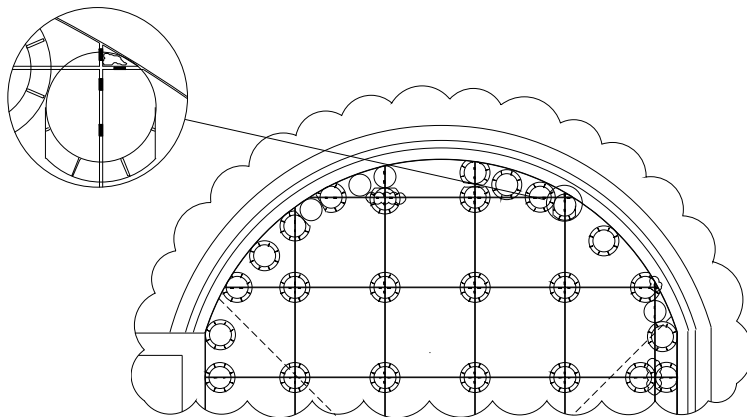
A1 (a) Threshold and (b) Perimeter Placement

- Use extra pedestals under small cut pieces for additional support.
- Adhere small pavers to top of pedestal with construction adhesive.
- Remove tabs as necessary for perimeter pedestals.
- Turn pedestals upside down or trim pedestal bases as necessary to fit around the perimeter.
- Decking pavers must not be spaced more than 3/16" (4.5 mm) from the perimeter containment.
- Adhere tabs into place with construction adhesive to maintain spacing between pavers when normal tab placement is not possible.



A2 Radius Placement

- Use extra pedestals under small cut pieces for additional support.
- Adhere small pavers to top of pedestal with construction adhesive.
- Remove tabs as necessary for perimeter pedestals.
- Turn pedestals upside down or trim pedestal bases as necessary to fit around the perimeter.
- Decking pavers must not be spaced more than 3/16" (4.5 mm) from the perimeter containment.
- Adhere tabs into place with construction adhesive to maintain spacing between pavers when normal tab placement is not possible.



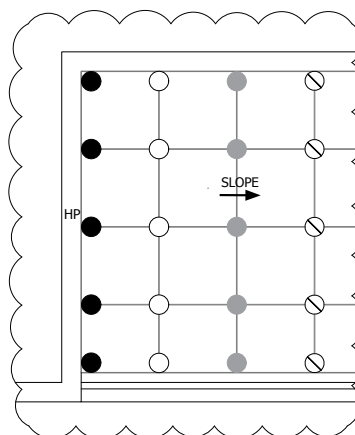
A3 Low Elevation Placement

For low cavity heights the following pedestals are available:

LOW HEIGHT PEDESTALS		
MODEL:		HEIGHT:
VT316	●	1/8" (3.175 mm)
HD25-316	○	1/4" (6.35 mm)
HD50-316	●	1/2" (12.7 mm)
HD75-316	⊗	3/4" (19.05 mm)
B1	⊗	1¼ - 2" (31.75 - 51 mm)

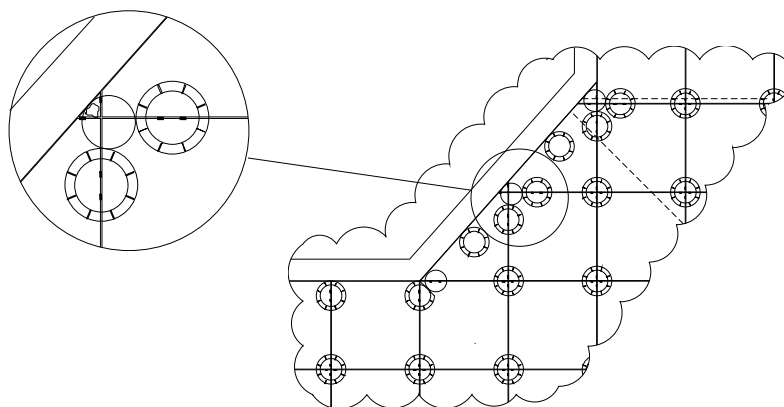
Shims can also be used to accommodate variations in height:

- 1/16" (1.588 mm) B11 Shim
- 1/8" (3.175 mm) PS1 Shim



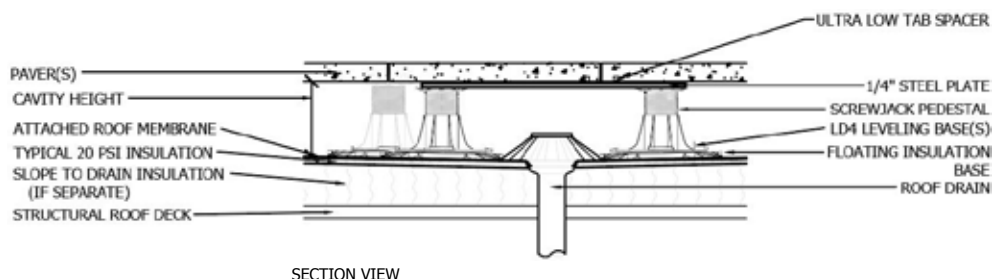
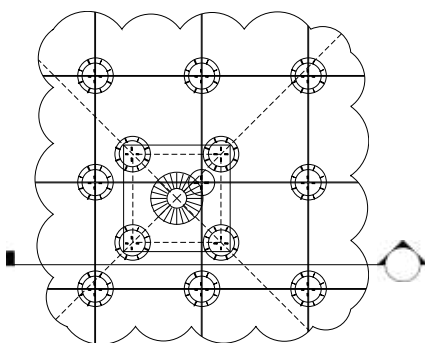
A4 Diagonal Placement

- Use extra pedestals under small cut pieces for additional support.
- Adhere small pavers to top of pedestal with construction adhesive.
- Remove tabs as necessary for perimeter pedestals.
- Turn pedestals upside down or trim pedestal bases as necessary to fit around the perimeter.
- Decking pavers must not be spaced more than 3/16" (4.5 mm) from the perimeter containment.
- Adhere tabs into place with construction adhesive to maintain spacing between pavers when normal tab placement is not possible.



A5 Drain Placement

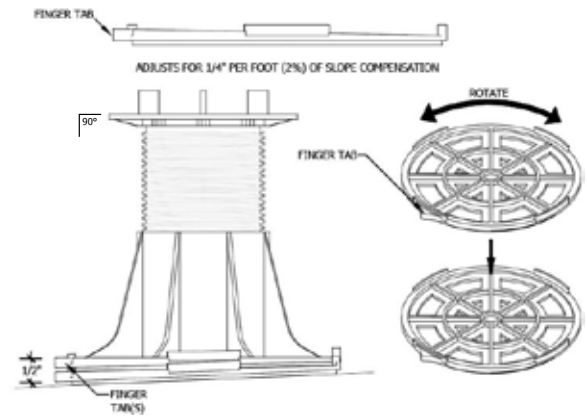
- Elevate a steel plate or spare paver above the drain but below the deck itself.
- Use that elevated paver to support a pedestal where you need for the deck above.



Slope Compensation

LD4 Base Leveler

- Use LD4(s) to compensate for slope in order to keep pedestals plumb (vertical) and finished deck elevation level.
- Each LD4 compensates for a 1/4" per foot slope (2%) and adds 1/4" (6.35 mm) to the overall height of the pedestal. Stack up to 4 total LD4s below the base of a pedestal and rotate to compensate for slopes from 0" to a maximum of 1" per foot slope (0-8%).
- Place LD4 on substrate with smooth side down. Center pedestal or additional LD4s between tabs on top.
- Finger tab points downhill for 1/4" per foot slope (2%) when using a single LD4.

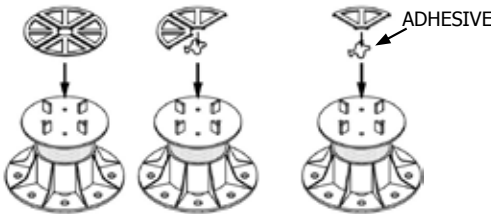


AS SHOWN: 2x LD4s COMPENSATING FOR 1/2" PER FOOT SLOPE (4%)

Working with Shims

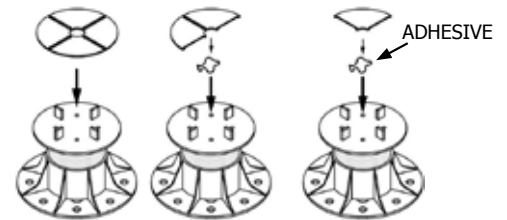
PS1 1/8" (3.175 mm) Shims - Plastic

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.



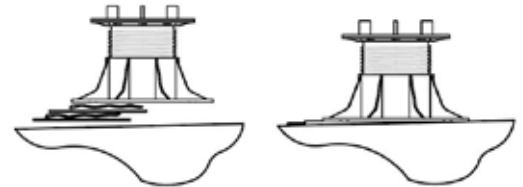
B11 1/16" (1.588 mm) Shims - Rubber

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.



PS1 and B11 Shims Under Pedestals

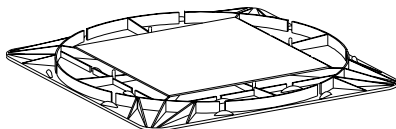
Place shims (whole or in segments) under the pedestal in a stairstep fashion to compensate for sloping substrates. Use no more than 2 shims. Adhere them to each other and to the pedestal with construction adhesive. **IMPORTANT: DO NOT ADHERE TO SUBSTRATE.**



Pedestal Base Pads

Floating Insulation Base (FIB)

If common roof insulation is installed immediately below the membrane, the type and density of the insulation is of utmost importance. For roofing systems having insulations with a medium density of 20-40 psi (137.895 - 275.79 kPa), Bison requires an FIB to be installed immediately below each Bison Pedestal to disperse the deck load. Please refer to Bison specifications for proper use.



Floating Foundation Base (FFB)

FFBs are required for use beneath all Bison Pedestal decks installed on grade (soil). Level the surface and set the FFB directly on grade as a base below each pedestal.

