



12x24, 24x24 Stone

offering a unique blend of functionality and design, these pavingstones can transcend a grandiose hardscape with a variety of colors.

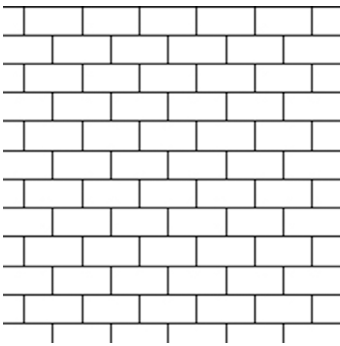
TYPICAL APPLICATIONS: Pedestal Roof, Terraces, Pool Decks, Patios, Sidewalks
FINISH AND EDGES: Smooth; Bevel or Flat



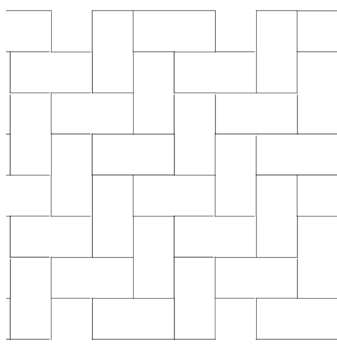
STONE SHAPE	THICKNESS (MM)	DESCRIPTION (IN)	SIZE (IN)	STONES PER SQ FT	SQUARE FT PER PALLET
RECTANGLE	60	12 x 24	11.81 x 23.61	0.5	124
SQUARE	60	24 x 24	23.61 x 23.61	0.25	124

Common Patterns:

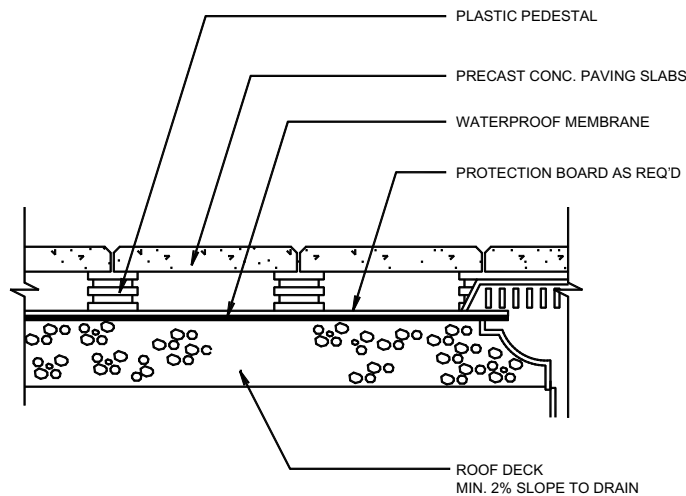
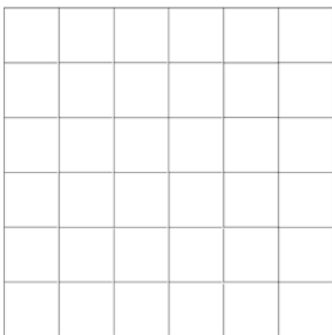
RUNNER



HERRINGBONE



STACK



Additional Info:

Visit www.orco.com for the latest information on available color blends, solid colors, and patterns. Before ordering, always verify color and texture with pavingstone samples.

For proper installation procedures, see Bison Installation Guidelines.





VERSADJUST
Adjustable Pedestals

STRENGTH AND SUPERIOR FUNCTIONALITY

September 2018

VERSADJUST ADJUSTABLE PEDESTALS

- Integral base leveling to correct for sloped substrates
- Each center-loaded pedestal supports 1250 pounds
- Quick-clip extenders to reach heights fast - up to 36 inches
- Pedestal bracing system for additional stability and heights over 24 inches
- Fast and easy installation - promotes labor savings
- Screw-to-adjust pedestals ensure perfectly level decks
- Impervious to water, mold, and freeze/thaw cycles
- Unique patented design
- Made in the U.S.A.



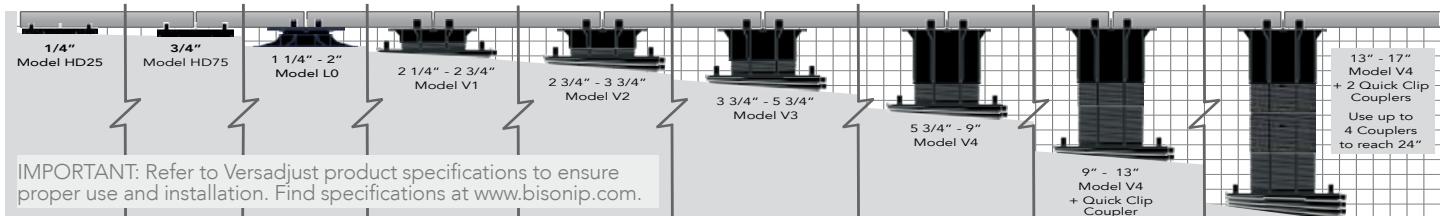
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SPECIFICATIONS

- Supports 1250 lbf (5.56 kN) FS:3 per pedestal
- Select 1/8 or 3/16 inch (3.175 or 4.5 mm) tab size for pedestals
- Integrated base levelers accommodate 0 to 1/2 inch per foot slope (0-4%)
- Adjustable system height range is 2 1/4 to 36 inches (57.15 to 914.4 mm)
- Bison Brace System required for 24 to 36 inches (609.6 to 914.4 mm)
- Accessories available for heights from 1/8 to 2 1/4 inches (3.175 to 57.15 mm)
- Contains 20% post-industrial recycled material
- Impervious to water, mold, and freeze/thaw cycles
- Made in the U.S.A.

	Model No.	Description	Range	Notes
Pedestals	 V1-18 V1-316	Adjustable Pedestal	2 1/4" - 2 3/4" (57.15 - 69.85 mm)	--
	 V2-18 V2-316	Adjustable Pedestal	2 3/4" - 3 3/4" (69.85 - 95.25 mm)	--
	 V3-18 V3-316	Adjustable Pedestal	3 3/4" - 5 3/4" (95.25 - 146.05 mm)	--
	 V4-18 V4-316	Adjustable Pedestal	5 3/4" - 9" (146.05 - 228.6 mm)	--
	 VC2	Quick Clip Extender	Adds up to 4" (101.6 mm) each	Insert VC2 into V4 base or another VC2 to reach up to 36" (914.4 mm)
Tabs	 VT18 VT316	Spacer Tab	1/8" (3.175 mm) wide 3/16" (4.5 mm) wide	Select 1/8" (3.175 mm) or 3/16" (4.5 mm) Tab Size
	 VT18 VT316	Ultra Low Height Pedestal	1/8" (3.175 mm)	--
	 HD25-18 HD25-316 HD50-18 HD50-316 HD75-18 HD75-316	Fixed Height Stackable Pedestals	1/4" (6.35 mm) 1/2" (12.7 mm) 3/4" (19.05 mm)	Stack up to 4
	 LO-18 LO-316	Low Height Adjustable Pedestal	1 1/4" - 2" (31.75 - 51 mm)	Supports 750 lbf (3.34 kN) FS:3 per Pedestal
	 B11	Rubber Flexible Shim	1/16" (1.588 mm)	--
	 PS1	Plastic Rigid Shim	1/8" (3.175 mm)	--
Accessories	 LD4	Base Leveler	Adds 1/4" (6.35 mm) to Pedestal height Stack up to 4 total to base of Pedestals	Maximum of 1" per foot slope (8%)
	 FS-1	Fastening Kit*	Secures Bison Wood Tiles or Paver Trays to Bison Pedestals	
	 FS-12	12" Spline* 3/16" (4.5 mm) Tab	Secures Bison Wood Tiles or Paver Trays to Bison Pedestals when additional protection against wind uplift is required	
	 JT	Joist Top	Adds 3/16" (4.5 mm) in height	Works with 2x and 4x lumber on Adjustable Pedestals
	 FIB	Floating Insulation Base	12" x 12" x 11/16" (304.8 x 304.8 x 17.463 mm) For use over roofing systems with 20-40 psi (137.895 - 275.79 kPa) bearing capacity	
	 FFB	Floating Foundation Base	12" x 12" x 1/4" (304.8 x 304.8 x 6.35 mm) For use under Pedestals on grade (soil)	

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Understanding Versadjust Installation Details

The Versadjust, adjustable V-Series, Pedestal line reaches heights from 2 1/4" to 36" (57.15 to 914.4 mm), has a 1250 lbf FS:3 weight bearing capacity, and contains built in base levelers to compensate for 0" to 1/2" per foot slope (0-4%). Precise spacer tabs maintain uniform paver spacing and allow for deck drainage, and the screw-to-adjust height setting assures a perfectly level deck. The Bison Versadjust Pedestal has a broad footprint that provides stability, is impervious to freeze thaw cycles, and offers a range of heights suited to almost any application. Made in the USA.

The Versadjust Quick Clip Coupler © (patent pending) increases speed and efficiency installing pedestals at heights over 9" (228.6 mm). Accessories are available to compensate for additional slope (up to 1" per foot or 8%) and for low height applications from 1/8" to 2 1/4" (3.175 to 57.15 mm).

Use the Bison Brace System with Versadjust Pedestals for extended cavity height installations from 24" to 36" (609.6 to 914.4 mm) or for installations where additional stability is deemed necessary.

VERSADJUST
Adjustable Pedestals

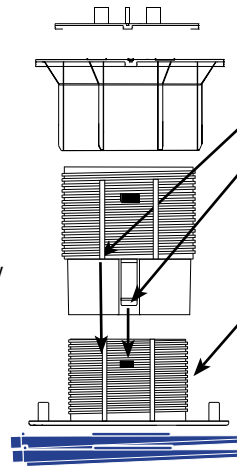
February 2018

VT Spacer Tab

(Specify tab width when ordering)
VT316 - 3/16" (4.5 mm) standard
VT18 - 1/8" (3.175 mm) optional
Place spacer tab on top of pedestal.
To remove tabs, strike spacer tabs with hammer on edge.

V-Series Top

Comes screwed into V-Series Base. Unscrew top until thread engagement indicators are felt and heard. DO NOT extend beyond this point except to add a VC2 Quick Clip Coupler to a V4 Pedestal.



VC2 Quick Clip Coupler (Works with Model V4 only)

To Assemble:
Align lines on coupler and base.
Align tab with quick clip slot.
Slide together until tab locks into place.
To Separate:
Hook VC2 Quick Clip Coupler Release Tool into slots on the side of the pedestal base or coupler, detach tool, and pull apart.

V-Series Base

Comes screwed into V-Series Top. Unscrew top until thread engagement indicators are felt and heard. DO NOT extend beyond indicators except to add an VC2 Quick Clip Coupler to a V4 Pedestal.

VB Base Leveler

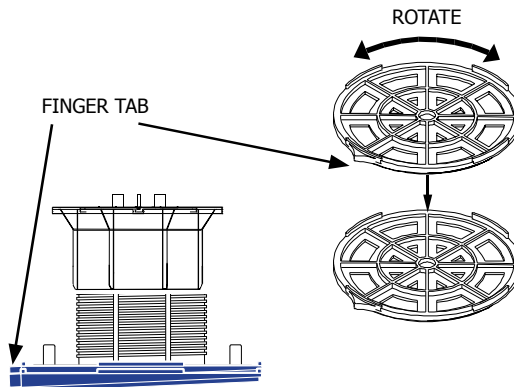
Built-in base provides 0" - 1/2" per foot slope compensation (0-4%).

Built In Slope Base Compensation

Each V-Series Pedestal comes with a VB Base Leveler that compensates for up to 1/2" per foot slope (4%).

Slope Adjustment:
Point both finger tabs downhill for 1/2" per foot slope (4%).
Rotate base pieces for precise slope compensation.

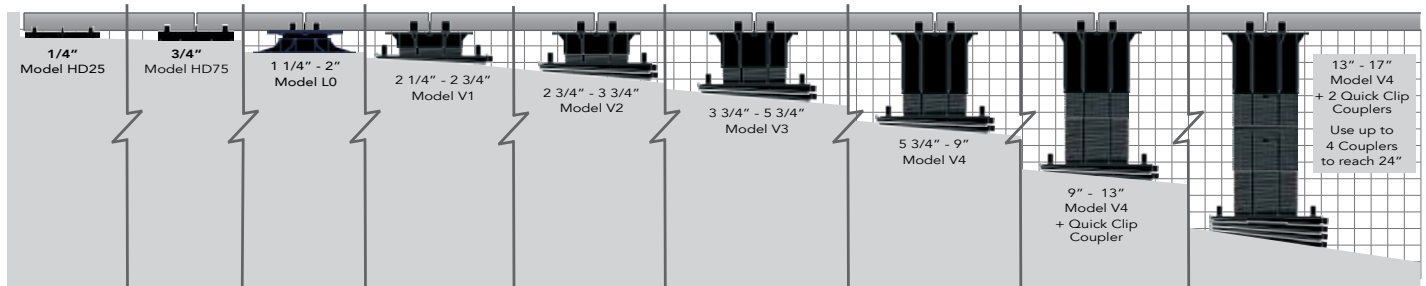
To Create a Flat Base:
Position finger tabs opposite one another.



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

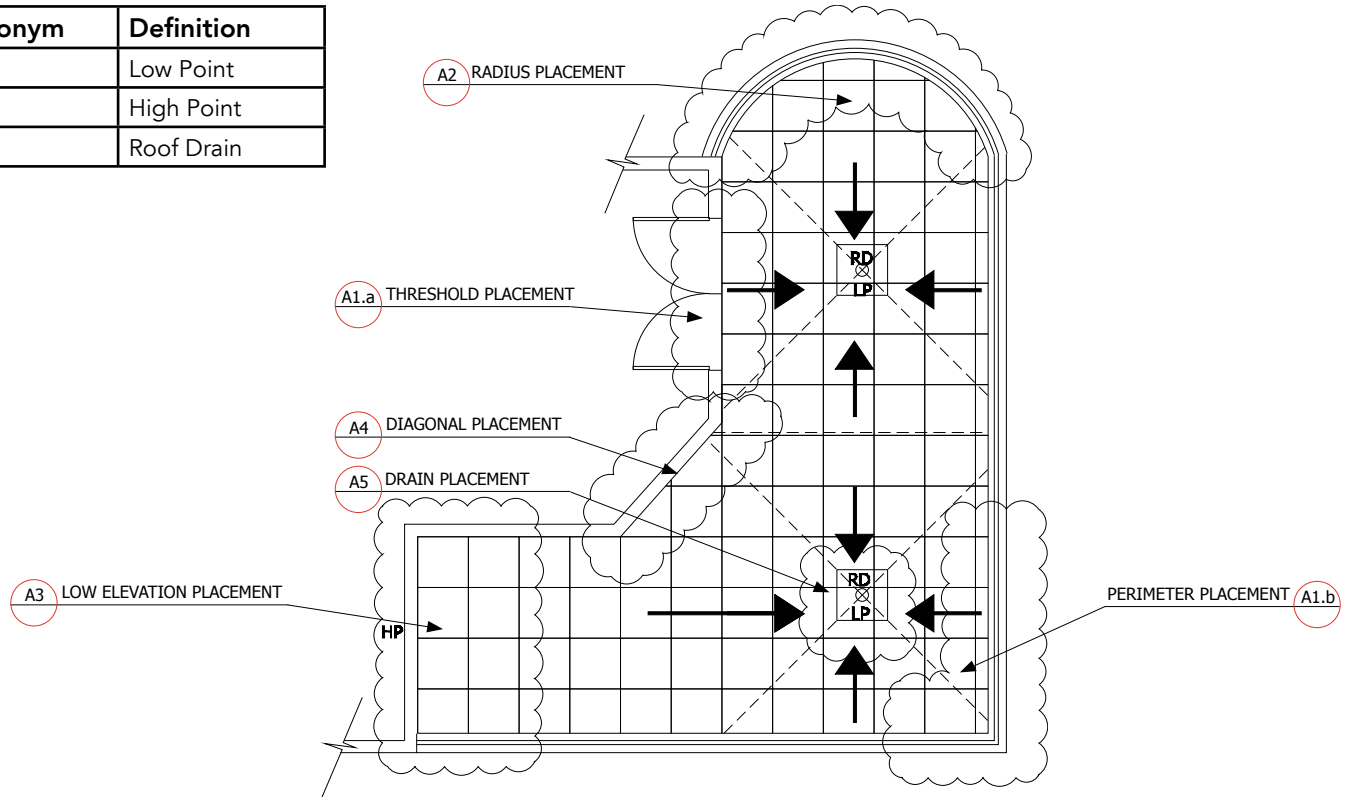
To remove VB Base Leveler, slide pedestal base out of VB Base Leveler.

For additional slope compensation, a maximum of 2 additional LD4 Base Levelers can be used with the V-Series Pedestals adding an additional 1/2" per foot slope (4%) for a total of 1 inch per foot slope (8%). Each LD4 adds 1/4" (6.35 mm) to the overall height of the pedestal.



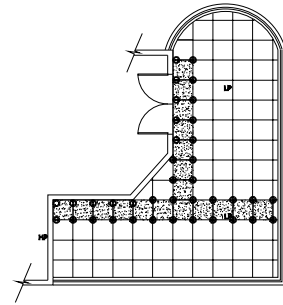
Advanced Layout and Pedestal Placement

Acronym	Definition
LP	Low Point
HP	High Point
RD	Roof Drain



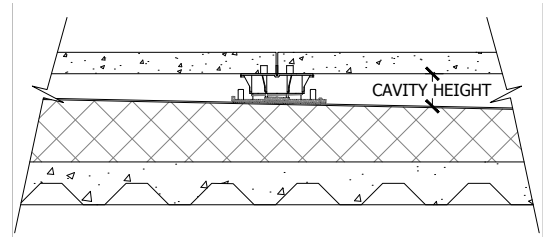
"T" Method Installation

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".



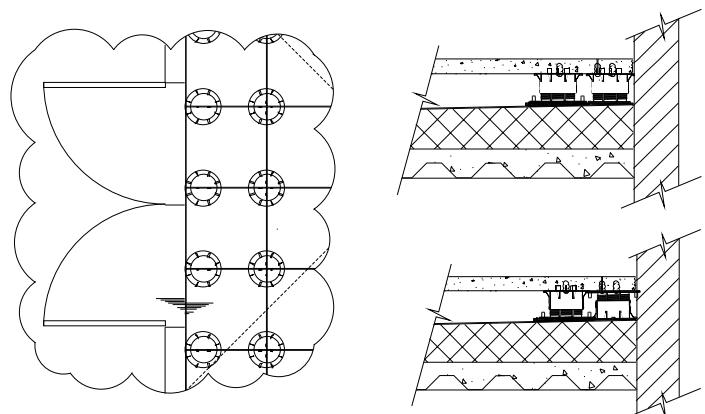
Determining Cavity Height

- 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.
- Refer to the detachable measuring device printed on the box.



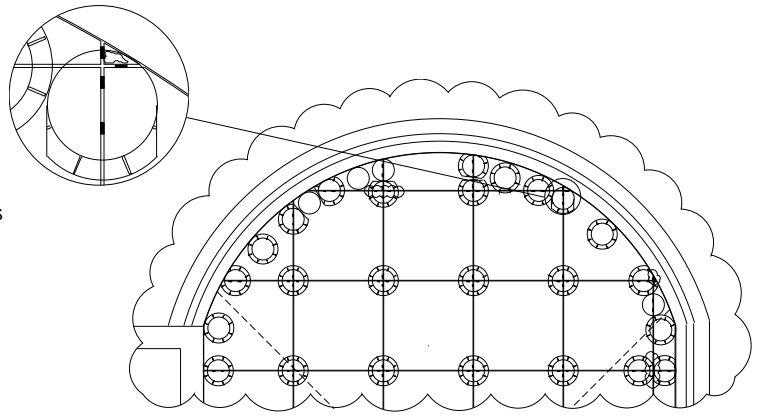
A1 (a) Threshold and (b) Perimeter Placement

- 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.



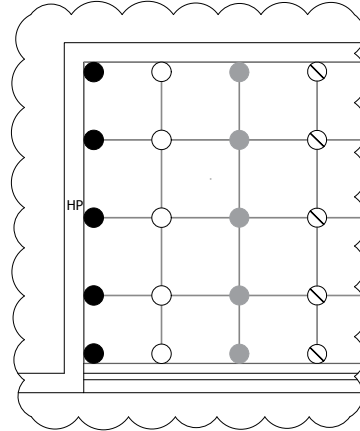
A3 Low Elevation Placement

For low cavity heights the following pedestals are available:

LOW HEIGHT PEDESTALS		
MODEL:		HEIGHT:
VT18 or VT316	●	1/8" (3.175 mm)
HD25-18 or HD25-316	○	1/4" (6.35 mm)
HD50-18 or HD50-316	●	1/2" (12.7 mm)
HD75-18 or HD75-316	⊗	3/4" (19.05 mm)
LO-18 or LO-316	⊗	1 1/4 - 2" (31.75 - 51 mm)

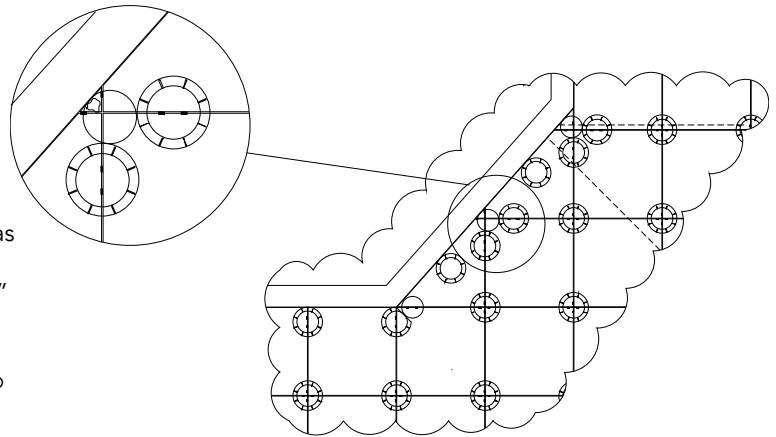
Shims can also be used to accommodate variations in height:

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



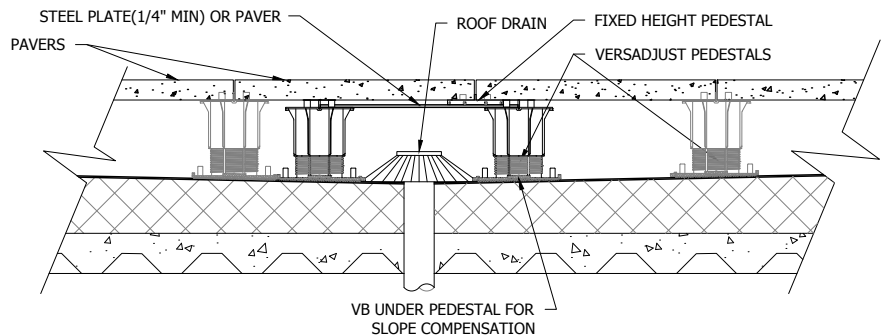
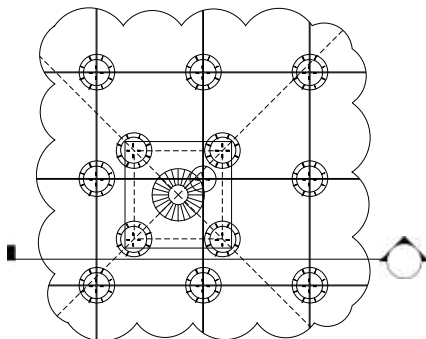
A4 Diagonal Placement

- 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.



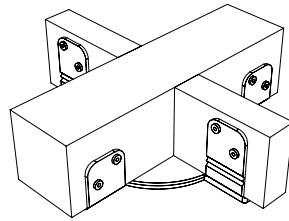
SECTION VIEW

Working with Wood

JT Wood Joist Top

Center Joist Top over Bison Pedestal. Using a screwdriver, insert screw (provided) into the hole in the center of the Joist Top and hand tighten to attach to the pedestal. Works with both 2x and 4x lumber. Attach joist(s) to Joist Top using #8 deck screws (NOT provided).

IMPORTANT: When attaching to the pedestal - DO NOT OVER-TIGHTEN SCREW.

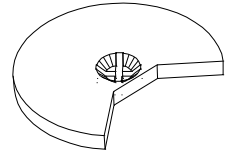


AS SHOWN: JOIST TOP WITH 2x4 AND 4x4 JOISTS

FS-1 Wood Tile Fastening Kit*

Place FS-1 washer in the kerf between the surface planks and the runners. Screw FS-1 washer through center hole of spacer tab set and into pedestal.

Make sure that washer clamps all corners of wood tiles and then tighten. To remove a wood tile: Loosen screw, and, using a screwdriver, rotate FS-1 washer to release wood tile.



Working with Shims

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

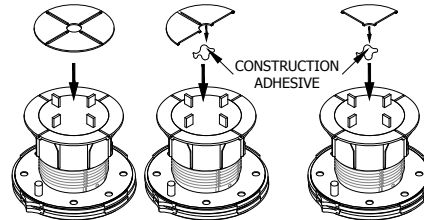
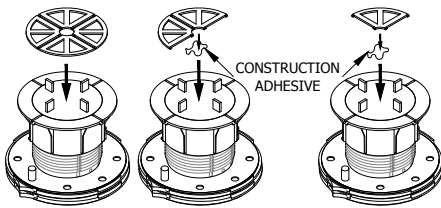
PS1s may be placed on top of pedestals to accommodate for minor leveling of pavers with thickness variations. Use no more than 2 shims. If using only quarter segment, adhere it to the pedestal with construction adhesive.

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

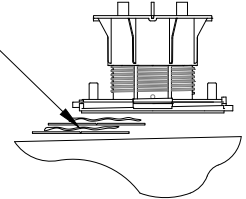
B11s may be placed on top of pedestals to accommodate for minor leveling of pavers with thickness variations. Use no more than 2 shims. If using only quarter segment, adhere it to the pedestal with construction adhesive.

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.**



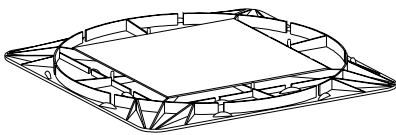
ADHERE SHIMS IN PLACE WITH CONSTRUCTION ADHESIVE



Pedestal Base Pads

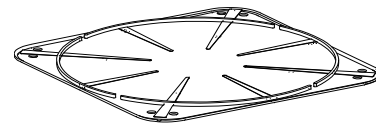
Floating Insulation Base (FIB)

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 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.



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, simply lift the paver up and shim one or more corners until the paver is level on all four corners. To ensure pedestal stability, make sure to not exceed the thread engagement indicators. Bison 1/16" (1.588 mm) B11 Shims or 1/8" (3.175 mm) PS1 Shims can be ordered and shipped.
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 broken spacer tabs immediately. 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.