SECTION 07 76 16

DECK PEDESTAL SYSTEM

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\*\* NOTE TO SPECIFIER \*\* Bison Innovative Products; deck pedestal support and wood tile paver products.
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This section is based on the products of Bison Innovative Products, which is located at:701 Osage St., Unit 120Denver, CO 80204Toll Free Tel: 800-333-4234Tel: 303-892-0400Fax: 303-825-5988Email: [request info (matt@bisonip.com)](https://arcat.com/rfi?action=email&company=Bison%252BInnovative%252BProducts&message=RE%253A%2520Spec%2520Question%2520(07760bis)%253A%2520&coid=30960&spec=07760bis&rep=&fax=303-825-5988)
Web: <http://www.bisonip.com>
 [ [Click Here](https://arcat.com/company/bison-innovative-products-30960) ] for additional information.
Bison Deck Supports: manufactured in the USA with 20 percent post-industrial recycled materials. Bison VERSADJUST, LEVEL IT, and SCREWJACK pedestals create level rooftop decks over sloped surfaces. Bison pedestals elevate and support Wood Tiles, Concrete Pavers, Site Furnishings and a variety of other surfaces when sophisticated, commercial grade decking is required.
Bison Versadjust, adjustable V-Series line reaches heights from 2-1/4 inches to 24 inches, has a 1250 pound weight bearing capacity and contains built-in slope compensation from 0 - 1/2 inch per foot slope. Joist Top is a Versadjust accessory that can convert Bison Pedestals into traditional joist and plank decking supports. Low Height pedestals can be used when low clearance is needed.
Bison Level.It deck supports are suitable for any project type from commercial to residential. One simple Level.It model LC covers heights from 2 inches to 4-3/4 inches. Additional accessories are available to compensate for slope and accommodate heights from 1/8 inch to 12 inches Model LC supports up to 750 lbs. Ideal for contractors or the do-it-yourself homeowner.
Bison ScrewJack pedestals are designed to support heavy pavers over any waterproofed structural surface. The Bison Screwjack pedestal (B-Series) reaches from 0 to 16 inches in height. Add couplers to reach up to 24 inches in height. Weight Bearing Design Capacity is 1000 lbs/pedestal FS:2.
Bison Surfaces: Bison wood tiles are commercial grade and available in standard and FSC certified species. Wood species include Ipe, Massaranduba and Cumaru. Bison 2 cm pavers are residential grade and available in 3 standard finishes that give the natural appearance of stone.
Bison Site Furnishings: Bison Cubes are modular planters made from high strength Aluminum and Ipe and come in an array of colors and finishes. Bison Cubes are designed to integrate with Bison Deck Systems giving the Architect complete design flexibility.

1. GENERAL
	1. SECTION INCLUDES

\*\* NOTE TO SPECIFIER \*\* Delete items below not required for project.

* + 1. Adjustable Deck Pedestals
		2. Fixed Height Deck Pedestals
		3. Low Height Deck Pedestals
		4. Deck Pedestals Accessories
		5. Deck Paver Tiles and Paver Trays
		6. Modular Planter, Seating and Storage Cubes
	1. RELATED SECTIONS

\*\* NOTE TO SPECIFIER \*\* Delete any sections below not relevant to this project; add others as required.

* + 1. Section 32 14 23 - Asphalt Unit Paving.
		2. Section 04 22 00 - Concrete Unit Masonry.
		3. Section 04 40 00 - Stone Assemblies.
		4. Section 04 40 00 - Stone Assemblies.
		5. Section 06 15 00 - Wood Decking.
		6. Section 06 50 00 - Structural Plastics.
		7. Section 06 73 00 - Composite Decking.
		8. Section 07 50 00 - Membrane Roofing.
		9. Section 07 72 13 - Manufactured Curbs.
		10. Section 07 76 13 - Roof Ballast Pavers.
		11. Section 09 01 60.91 - Flooring Restoration.
	1. REFERENCES

\*\* NOTE TO SPECIFIER \*\* Delete references from the list below that are not actually required by the text of the edited section.

* + 1. US Green Building Council.
		2. ASTM D 1238 - Standard Test Method for Melt Flow Rates of Thermoplastics by Extrusion Plastometer.
		3. ASTM D 792 - Standard Test Methods for Density and Specific Gravity (Relative Density) of Plastics by Displacement ASTM D 638-03 - Standard Test Method for Tensile Properties of Plastics
		4. ASTM D 256 - Standard Test Methods for Determining the Izod Pendulum Impact Resistance of Plastics.
		5. ASTM D 648 - Standard Test Method for Deflection Temperature of Plastics Under Flexural Load in the Edgewise Position.
		6. ASTM C 1028 - Method for Measuring Coefficient of Friction
		7. ASTM E 108 - Standard Test Methods for Fire Tests of Roof Coverings
		8. Forest Stewardship Council (FSC) - Wood deck tiles that are certified by FSC
	1. DESIGN / PERFORMANCE REQUIREMENTS
		1. Provide a complete deck support system as indicated on the Drawings.
		2. System to be used with applications having pedestrian traffic only and with all four sides of a deck system designed to restrain and contain decking panels with perimeter blocking or walls. Lateral movement of the system greater than 1/8 inch is unacceptable. Vehicular traffic or equipment including but not limited to snow removal equipment, ATV's, forklifts, or any motorized vehicles are not permitted.
		3. Consult the Pedestal Support System Manufacturer and the Project Engineer if the following conditions are anticipated:
			1. When spacer tab condition or design requires spacing between decking tiles or concrete pavers other than the standard spacing required by the manufacturer.
			2. When considering use for other than a raised decks (e.g. interior floors, stairs, etc.).
			3. When the required pedestal height exceeds the safe limits as determined by the Manufacturer.
			4. When pedestal load capacity exceeds the maximum listed.
			5. When anticipating installation of any items with excess weight on top of the deck.
			6. When using Deck Supports pedestals on grade (soil).
			7. When greater pedestal load capacity is required.
		4. Deck surfacing tiles or pavers shall be designed to sit above waterproofing, integral flashing and or counter flashing. Use protective wall covering in locations where the perimeter of the deck may come into contact with the flashing material.
		5. Heavy flat bottom features such as planters, heavy benches, water features, hot tubs, etc. shall be designed with individual support in addition to the deck pedestal system.
			1. Provide a minimum of one additional pedestal support for every 500 lbs. (or portion thereof) of static loading.
			2. Install additional support pedestals directly under the decking and evenly spaced immediately below the feature locations.
			3. Provide one additional pedestal under corner of any rectangular feature.
			4. Bison Cubes, may require additional support under the center and corners of depending on the size and anticipated weight loads.
			5. Features supported by legs or feet are not acceptable due to point loading.
			6. Features that create vibration must be acceptable to the Support System manufacturer in advance.
			7. Cell phone towers, heavy planters and other similar features require separate engineered supports.
		6. Design all decks not exceed the design capacity of the pedestal.
		7. Decks should be restrained on all sides and not have lateral movement in excess of one tab set (not to exceed 3/16 inch (4.5 mm).
		8. Substrate immediately below the pedestals shall be designed to provide positive drainage.
		9. For decks over roofing substrates, roof systems must meet local building code and be in accordance with the NRCA recommended good construction practices. Only roofing manufacturer approved systems shall be used.
		10. For applications directly over roofing and waterproofing membranes use a 12 inch by 12 inch piece of the same type of membrane as a separate protection slip sheet underneath each pedestal.

\*\* NOTE TO SPECIFIER \*\* Retain the next paragraph only if the Pedestal system is installed over a roofing or waterproofing membrane. Delete if not required.

* + 1. Decks over roofing and waterproofing:
			1. Pedestal Installation: Pedestals must be installed on surfaces with a minimum 40 psi bearing capacity.
			2. Pedestals must be supported by a surface that provides a minimum 40 psi bearing capacity.
			3. A 12 by 12 inch piece of installed membrane is recommended as a separate protective slip sheet underneath each pedestal.
		2. Roof top applications:

\*\* NOTE TO SPECIFIER \*\* Select one of the following paragraphs as applicable to the project. Delete if not required.

* + - 1. Roof Type 1 - Insulation installed below Roof Membranes: Systems using rigid insulation boards typically manufactured of polyisocyanurate, perlite, or wood fiberboard materials with a density of 20 psi. These systems shall be supported to create an adequate bearing surface as follows:
				1. Thin Cap Bearing Protective Layer thin dense low-foamed isocyanurate insulation that provides the necessary pedestal support for the pedestal system.
				2. Bison Model FIB (Floating Insulation Base) Pedestal Base with an enlarged base that supports the pedestal to distribute the anticipated loaded weight of a pedestal over an enlarged area.
				3. Insulation above the Membrane: Provide a 1.5 inch thick minimum layer of dense, closed cell 40 psi minimum extruded cell polystyrene insulation board above the roof system to provide support for the pedestal system.
			2. Roof Type 2 - Closed Cell Insulation Protecting Roof Membrane Systems. Inverted Roof Membrane Systems that incorporate plus 40 psi density closed cell extruded polystyrene insulation on top of the roofing membrane.
				1. Before the ballast rock is installed, deck system pedestals are installed directly on the insulation. Varying densities and thicknesses of extruded polystyrene are commonly used, and substantial ballasting is required.
				2. Pedestals can be installed directly on top of gravel removed 40 psi, or greater, extruded closed cell polystyrene insulation with 1.5 inch thickness or greater.
		1. Decks on Grade:
			1. Substrate soil to receive pedestals shall be adequately compacted and have positive drainage slope. Provide a compacted gravel base at deck support locations.
			2. Bison Floating Foundation Bases (FFB) shall be used beneath all on-grade Deck Support decks. Level the surface and install directly on grade as a base.
			3. Provide system with wall or perimeter containment on all open sides. Install structural perimeter containment that restrains the entire decking system.
	1. SUBMITTALS
		1. Submit under provisions of Section 01 30 00 - Administrative Requirements.
		2. Product Data: Manufacturer's data sheets on each product to be used, including:
			1. Preparation instructions and recommendations.
			2. Storage and handling requirements and recommendations.
			3. Installation instructions.
			4. Cleaning and maintenance instructions.
		3. Shop Drawings: Submit shop drawings showing all components required for the paver and pedestal requirements. Include plan drawings showing layout of all paver areas and detail drawings showing how the various components of the system fit together. Include manufacturer's literature completely describing all components of the paver pedestal system with detailed installation recommendations and instructions.
		4. Structural Analysis: Provide confirmation of the structural capability and adequacy of the structure to carry the dead and live load weight(s) required, and that the density of any insulation is satisfactory to resist crushing and damaging the waterproofing membrane.
		5. Fire Resistance Ratings: Provide confirmation as required for exterior pedestal supported deck system by the local requirements.
		6. Wind Uplift Ratings: Provide confirmation of as required for exterior air permeable pedestal supported deck systems by the local requirements.

\*\* NOTE TO SPECIFIER \*\* Delete the following paragraphs if LEED is not applicable.

* + 1. LEED Submittals: Provide documentation to support requirements of how the following Credit will be met:
			1. Deck Pedestals contain 20 percent Post-Industrial Recycled Material and can contribute to multiple points within Materials and Resources Credits 4 as a single product contributing to multiple LEED points.
			2. Cubes: Bison Aluminum and Steel Cubes could contribute to LEED points in Material Content with Recycled Content; Indoor Environmental Quality by using low VOC Sealants and Finishes.
			3. Wood Tiles: Bison FSC-Certified (FSC-C13454) Ipe and Massarunduba wood tiles could contribute to LEED points under Materials and Resources Credit 7 (MR Credit 6 for CS).
		2. Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) square, representing actual product, color, and patterns.
		3. Manufacturer's Certificates: Certify products meet or exceed specified requirements.
		4. Closeout Submittals: Provide manufacturer's maintenance instructions that include recommendations for periodic cleaning, adjustment and maintenance of components.
	1. QUALITY ASSURANCE
		1. Manufacturer Qualifications: Minimum of 10 years experience manufacturing deck supports and tile systems.
		2. Installer Qualifications: Installer must have a minimum of 2 years proven construction experience for projects of a similar type and scale. All Work must comply with the manufacturer's installation instructions and procedures for deck support work specified herein.

\*\* NOTE TO SPECIFIER \*\* Include a mock-up if the project size and/or quality warrant taking such a precaution. The following is one example of how a mock-up on a large project might be specified. When deciding on the extent of the mock-up, consider all the major different types of work on the project.

* + 1. Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and application workmanship.
			1. Finish areas designated by Architect.
			2. Do not proceed with remaining work until workmanship, color, and sheen are approved by Architect.
			3. Refinish mock-up area as required to produce acceptable work.
	1. DELIVERY, STORAGE, AND HANDLING
		1. Store products in manufacturer's unopened packaging with labels intact and legible until ready for installation.
		2. Protect products during shipment, storage and construction against damage. Store a minimum of 4 inches (102 mm) off the ground in a dry location and cover with polyethylene to protect from contact with materials that would cause staining or discoloration.
		3. Store products in an enclosed or covered area protected from the elements as site conditions allow.
	2. WARRANTY
		1. Provide the manufacturers 5 year limited warranty.
		2. Provide the installers written 5 year labor and materials warranty.
1. PRODUCTS
	1. MANUFACTURERS
		1. Acceptable Manufacturer: Bison Innovative Products, which is located at:701 Osage St., Unit 120Denver, CO 80204Toll Free Tel: 800-333-4234Tel: 303-892-0400Fax: 303-825-5988Email: [request info (matt@bisonip.com)](https://arcat.com/rfi?action=email&company=Bison%252BInnovative%252BProducts&message=RE%253A%2520Spec%2520Question%2520(07760bis)%253A%2520&coid=30960&spec=07760bis&rep=&fax=303-825-5988);Web: <http://www.bisonip.com>

\*\* NOTE TO SPECIFIER \*\* Delete one of the following two paragraphs; coordinate with requirements of Division 1 section on product options and substitutions.

* + 1. Substitutions: Not permitted.
		2. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.

\*\* NOTE TO SPECIFIER \*\* Select one of the following Deck Support System paragraphs as required for the project. Delete those not required.
\*\* NOTE TO SPECIFIER \*\* Versadjust, adjustable V-Series reaches heights from 2-1/4 inches to 36 inches, with a 1250 pound weight bearing capacity (FS:3) and contains built in slope compensation from 0 - 1/2 inch per foot slope. Precise spacer tabs allow for deck drainage, and the screw-to-adjust height setting assures a perfectly straight and level deck. Quick Clip Coupler&copy; (patent pending) increases the speed and efficiency installing pedestals at heights over 9 inches. Accessories are available to compensate for additional slope and accommodate heights from 1/8 inch to 2-1/4 inches. Use Versadjust Pedestals with Bison Brace System for Excess Height Installations from 24-36 inches in height or for installations requiring additional stability. 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.

* 1. VERSADJUST DECK ADJUSTABLE HEIGHT SUPPORT SYSTEM
		1. Versadjust Deck Pedestals:
			1. Weight Bearing Capacity: 1250 lbs per pedestal (FS:3)
			2. Adjustable Height Range: 2-1/4 to 24 (57 mm to 610 mm) inches and to 36 inches (914 mm) with bracing.
		2. V-Series Base Model:
			1. General Pedestal Details:
				1. Load Capacity: Maximum 1250 lbs. (567 kg) per pedestal with a Safety Factor of 3 (FS:3).
				2. Material: Mineral Filled High Density Copolymer Polypropylene. Bison #B-PP-2025.
				3. Contains 20 percent post-industrial recycled material.
			2. Pedestal Base Details:
				1. Diameter: 8 inches (203 mm) diameter by 3/16 inch (4.75 mm) top wall thickness.
				2. Bearing Surface Area: 50.3 in2 (325 cm2).
				3. Six - 1/2 inch (13 mm) diameter holes for drainage and/or BB-PEGS.
				4. Includes a Model VB Integral Base Leveler Disk (not sold separately) that compensates for 0 to 2 inch per foot slope.
			3. Pedestal Top Details:
				1. Diameter: 6-3/4 inches (172 mm) by 5/32 inch (4 mm) thick plate.
				2. Bearing Surface Area: 35.8 in2 (231 cm2).
			4. Spacer Tabs:
				1. Free spinning insert maintains gapping while allowing for height adjustments under load.
				2. Two Spacing Configurations (specify selection):

VT18 1/8 inch (3.175 mm) tab thickness.

VT316 3/16 inch (4.5mm) tab thickness.

\*\* NOTE TO SPECIFIER \*\* Select the deck pedestal support components required from the following paragraphs. Delete those not required.

* + - 1. Adjustable Pedestals: V-Series Pedestals. Provided with 2 adjusting base leveler disks. Bearing Surface Area: 50.24 square inches (1276 sq. mm).

\*\* NOTE TO SPECIFIER \*\* Select Required size(s) from the next seven options.

* + - * 1. Model V1-18: 2-1/4 inch to 2-3/4 inch (57 mm to 70 mm) with 1/8 inch tab
				2. Model V1-316: 2-1/4 inch to 2-3/4 inch (57 mm to 70 mm) with 3/16 inch tab
				3. Model V2-18: 2-3/4 inch to 3-3/4 inch (70 mm to 95 mm) with 1/8 inch tab
				4. Model V2-316: 2-3/4 inch to 3-3/4 inch (70 mm to 95 mm) with 3/16 inch tab
				5. Model V3-18: 3-3/4 inch to 5-3/4 inch (95 mm to 146 mm) with 1/8 inch tab
				6. Model V3-316: 3-3/4 inch to 5-3/4 inch (95 mm to 146 mm) with 3/16 inch tab
				7. Model V4-18: 5-3/4 inch to 9 inch (146 mm to 229 mm) with 1/8 inch tab
				8. Model V4-316: 5-3/4 inch to 9 inch (146 mm to 229 mm) with 3/16 inch tab
			1. Coupler: Quick Clip Coupler: Model: VC2 Coupler adds between 0 to 4 inches (0-102 mm).

\* NOTE TO SPECIFIER \*\* For heights over 24 inches use Couplers must be used in conjunction with Bison Brace system.

* + - * 1. Model: V4 + VC2: 9 inches to 13 inches (229 mm - 330 mm).
				2. Model: V4 + VC2 + VC2: 13 inches to 17 inches (330 mm - 432 mm)
				3. Model: V4 + VC2 + VC2: 17 inches to 21 inches (432 mm - 533 mm)
				4. Model: V4 + 4 x VC2: If cavity height is over 24 inches use VC2 Couplers in conjunction with Bison Brace System
				5. Model: V4 + 4 x VC2: 21 to 25 inches (533 mm to 635 mm)
				6. Model: V4 + 5 x VC2: 25 to 29 inches (635 mm to 737 mm)
				7. Model: V4 + 6 x VC2: 29 to 33 inches (737 mm to 838 mm)
				8. Model: V4 + 7 x VC2: 33 to 36 inches (838 mm to 914 mm)

\*\* NOTE TO SPECIFIER \*\* Level.It L-Series 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. Precise spacer tabs allow for deck drainage, simple accessories adjust for slope, and the screw-to-adjust height setting assures a perfectly straight and level deck. The unique design of the Level.It Model LC covers height ranges from 2 to 4-3/4 inches, has a 750 lb weight bearing capacity (FS:3). Add couplers to reach up to 12 inches in height. Additional low height pedestals supports are available covering low height ranges from 1/8 inch to 2 inches.

* 1. LEVEL.IT DECK ADJUSTABLE HEIGHT SUPPORT SYSTEM
		1. Level.It Adjustable Deck Support System:
			1. General:
				1. Material: Mineral Filled High Density Copolymer Polypropylene. Bison #B-PP-2025. Contains 20% Post-industrial recycled material.
				2. Weight Bearing Capacity: 750 lbs per pedestal (FS:3)

\*\* NOTE TO SPECIFIER \*\* Select the deck pedestal components required from the following paragraphs. Delete those not required.

* + 1. LC Base Model:
			1. Adjustable Height Range: 0 to 12 inches (0 mm - 305 mm)
			2. Pedestal Base Details:
				1. Size: 7 7/8 inch (200mm) diameter by 3/16 inch (4.7mm) top wall thickness b. Bearing Surface Area: 48 in2 (310 cm2)
				2. Four 3/4 inch (19mm) diameter holes for drainage
				3. Four 1/4 inch (6mm) diameter holes for mechanical attachment
				4. Compatible with LD4 slope compensator (sold separately)
			3. Pedestal Top Details:
				1. 5-7/8 inch (150 mm) diameter by 5/16 inch (8 mm) thick plate
				2. Bearing Surface Area: 27 in2 (174 cm2)
				3. Eight 3/8 inch (9.5mm) diameter holes for drainage and/or mechanical attachment
				4. Integrated C3 Coupler (not sold separately)
		2. Model LO: 1 1/4 to 2 inches (32 to 51mm), select 3/16 inch or 1/8 inch spacer tabs
			- 1. Height Range: 1-1/4 to 2 inches (32 to 51 mm)
			1. Pedestal Base Details:
				1. Size: 7-7/8 inch (200 mm) diameter by 3/16 inch (4.75 mm) top wall thickness.
				2. Bearing Surface Area: 48.7 in2 (314 cm2).
				3. Four 3/4 inch (19 mm) diameter holes for drainage
				4. Eight 1/2 inch (13mm) diameter holes for BB-PEGS
				5. Compatible with LD4 slope compensation (sold separately)
			2. Pedestal Top Details:
				1. Diameter: 6 inches (152 mm) by 5/32 inch (4 mm) thick plate
				2. Bearing Surface Area: 28.3 in2 (183 cm2)
				3. Eight 3/8 inch (9.5 mm) diameter holes for drainage and/or mechanical attachment

\*\* NOTE TO SPECIFIER \*\* Select the coupler required from the following paragraphs. Delete entirely if coupler is not required.

* + 1. Coupler:
			1. Model: C1: Adds up to 1-1/2 inches (44 mm) in height to Model LC.
			2. Model: C4 Coupler: Adds up to 4 inches (102 mm) of height to Model LC.
			3. Model: LT18 Spacer Tabs - 1/8 inch (3.175 mm) thick. (Comes standard on Model LC.)
			4. Model: LT316 Spacer Tabs -3/16 inch (4.5 mm) thick. (Use as an option for Model LC).
			5. Model: LC + C1 = 4-3/4 inches to 6-1/2 inches (121 mm - 165 mm)
			6. Model: LC + C4 = 6-1/2 inches to 9 inches (165 mm - 229 mm)
			7. Model: LC + C4 = 6 1/2 inches to 9 inches (165 mm - 229 mm)

\*\* NOTE TO SPECIFIER \*\* Screwjack Series pedestals have a broad footprint that provides stability, is impervious to freeze thaw cycles, and offers a range of heights suited to almost any application. Precise spacer tabs allow for deck drainage, simple accessories adjust for slope, and the screw-to-adjust height setting assures a perfectly straight and level deck. Bison Screwjack pedestal series reaches from 0 to 16 inches in height. Add bracing and couplers to reach up to 24 inches in height and the Weight Bearing Design Capacity is 1000 lbs/pedestal FS:2.

* 1. SCREWJACK DECK ADJUSTABLE HEIGHT SUPPORT SYSTEM
		1. Screwjack System General:
			1. Material: Mineral Filled High Density Copolymer Polypropylene. Bison #B-PP-2025. Contains 20% Post-industrial recycled material.
		2. Screwjack B-Series Base:
			1. Height Range: 1/8 to 36 inches. Cavity heights from 24 to 36 inches require additional Bison Bracing.
			2. Integral 3/16 inch (4.5 mm) spacer tabs..
			3. Weight Bearing Capacity: 1000 lbs per pedestal (FS:2)
			4. Integral 3/16 inch (4.5mm) spacer tabs.
			5. Pedestal Base Details
				1. Size: 7-7/8 inch (200mm) diameter by 3/16 inch (4.75 mm) top wall thickness.
				2. Bearing Surface Area: 48 in2 (310 cm2).
				3. Four 3/4 inch (19 mm) diameter holes for drainage.
				4. Eight 1/2 inch (13 mm) diameter holes for BB-PEGS.
			6. Pedestal Top Details:
				1. Size: 5/32 inch (mm) thick plate; 5 7/8 inch (149 mm) diameter.
				2. Bearing Surface Area: 29 in2 (187 cm2) nominal.

\*\* NOTE TO SPECIFIER \*\* Select the deck pedestal support components required from the following paragraphs. Delete those not required.

* + - 1. Model B1: 1-1/4 to 2 inches (32 mm to 51 mm)
			2. Model B2: 2 to 3 inches (51 mm to 76 mm)
			3. Model B3: 3 to 4-3/4 inches (76 mm to 121 mm)
			4. Model B4: 4-3/4 to 7-3/4 inches (121 mm to 197 mm)
			5. Model B3 + C4: 7-3/4 to 9 inches (197mm to 229 mm)
			6. Model B4 + C4: 9 to 12 inches (229 mm to 305 mm)
			7. ModelB4+2xC4: 12 to 16 inches (305 mm to 406 mm)
			8. ModelB4+3xC4: 16 to 20 inches (406 mm to 508 mm)
			9. ModelB4+4xC4: 20 to 24 inches (508 mm to 610 mm)
			10. ModelB4+5xC4: 24 to 28 inches (610mm to 711mm)

\*\* NOTE TO SPECIFIER \*\* Heights in excess of 24 inches require bracing and 8 BB-PEGS per pedestal.

* + - 1. Model B4+6xC4: 28 to 32 inches (711 mm to 813 mm)
			2. Model B4 + 7 x C4: 32 to 36 inches (813 mm to 914 mm)

\*\* NOTE TO SPECIFIER \*\* Delete the following paragraph if Model C4 Coupler is not specified.

* + - 1. Model C4 Coupler: Adds up to 4 inches (102 mm) of height

\*\* NOTE TO SPECIFIER \*\* Select and edit the following Low Height pedestals if required and delete if not required.

* 1. LOW HEIGHT PEDESTALS
		1. General Pedestal Details:
			1. Height Range: 1-1/4 to 2 inches (32 mm to 51 mm)
			2. Load Capacity: 750 lbs. (340 kg) per pedestal with a Safety Factor of 3 (FS:3)
			3. Material: Mineral Filled High Density Copolymer Polypropylene. Bison #B-PP-2025.
			4. Contains 20 percent post-industrial recycled material.
		2. Pedestal Base Details:
			1. Size: 7-7/8 inches (200mm) diameter by 3/16 inch (4.75 mm) top wall thickness.
			2. Bearing Surface Area: 48.7 in2 (314 cm2).
			3. Four 3/4 inch (19 mm) diameter holes for drainage.
			4. Eight 1/2 inch (13 mm) diameter holes for BB-PEGS.
			5. Compatible with LD4 slope compensation (sold separately).
		3. Pedestal Top Details:
			1. Diameter: 6 inches (152 mm) by 5/32 inch (4 mm) thick plate.
			2. Bearing Surface Area: 28.3 in2 (183 cm2).
			3. Eight 3/8 inch (9.5 mm) diameter holes for drainage and/or mechanical attachment.
		4. Model VT316 or VT18 Fixed Height Pedestals:
			1. Diameter: 4-3/4 inches (121 mm) diameter by 1/8 inch (3.175 mm) tall.
			2. Bearing Surface 17.7 in2 (114 cm2).
			3. Integral Spacer Tabs: Specify 1/8 inch or 3/16 inch.
			4. Does not accommodate slope compensation.
			5. Material: Mineral Filled High Density Copolymer Polypropylene. Bison #B-PP-2025.
			6. Contains 20 percent post-industrial recycled material.
		5. Model HD Fixed Height Pedestals:
			1. Diameter: 6 inches (152 mm) diameter by 3/32 inch wall thickness.
			2. Bearing Surface Area: 27.7 in2 (179 cm2).
			3. Does not include slope compensation. Can accommodate Model LD4 for 1/4 inch per foot slope compensation.
			4. Material: Model HD25 Thermoplastic Elastomer; HD50 and HD75 Mineral Filled High Density Copolymer Polypropylene. Bison #B-PP-2025.
		6. Model HD25-18: Stackable (4 Max) 1/4 inch (6.4 mm) tall, with integral 1/8 inch Spacer Tabs
		7. Model HD25-316: Spacer Tabs Stackable (4 Max) 1/4 inch (6.4mm) tall, with integral 3/16 inch Spacer Tabs
		8. Model HD50-18: Stackable (4 Max) 1/2 inch (13 mm) tall, with 1/8 inch integral Spacer Tabs
		9. Model HD50-316: Stackable (4 Max) 1/2 inch (13 mm) tall, with 3/16 inch integral Spacer Tabs
		10. Model HD75-18: Stackable (4 Max) 3/4 inch (19 mm) tall, with 1/8 inch integral Spacer Tabs
		11. Model HD75-316: Stackable (4 Max) 3/4 inch (19 mm) tall, with 3/16 inch integral Spacer Tabs
		12. Model LO: 1-1/4 to 2 inches (32 mm to 51 mm), select 3/16 inch or 1/8 inch Spacer Tabs

\*\* NOTE TO SPECIFIER \*\* Select and edit the following deck pedestal accessories as required and delete those not required.

* 1. DECK PEDESTAL ACCESSORIES
		1. Fastening Kits:

\*\* NOTE TO SPECIFIER \*\* Select one of the following Fastening Kit for Spline paragraphs as required and delete the one not required. Model FS-12 is used when additional protection is required for wind uplift

* + - 1. Model: FS-1 Fastening Kit: Secures Bison Wood Tiles or Paver Trays to Bison Pedestals without penetrating or damaging the Wood Tile, Paver Tray, or selected paver:
				1. Components: Washer (US Patent #8,302,356), long screw, and short screw.
				2. FS-1 with Bison Wood Tiles: Use long screw with Bison Adjustable Pedestals, HD50 Fixed Height Pedestals, and HD75 Fixed Height Pedestals.
				3. FS-1 with Bison Paver Trays: Use long screw with Bison Adjustable Pedestals; short screw with Bison HD50 and HD75 Fixed Height Pedestals.
				4. Weight: 0.192 oz. (5.4 g)
				5. Material: Nylon
			2. Model: FS-12 Spline: Secures Bison Wood Tiles or Paver Trays to Bison Pedestals without penetrating or damaging the Wood Tile. Paver Tray, or selected paver when greater lock-down force is required:
				1. Components: Spline, long screw, and short screw.
				2. FS-12 with Bison Wood Tiles: Use long screw with Bison Adjustable Pedestals, HD50 Fixed Height Pedestals, and HD75 Fixed Height Pedestals.
				3. FS-12 with Bison Paver Trays: Use long screw with Bison Adjustable Pedestals; short screw with Bison HD50 and HD75 Fixed Height Pedestals. Weight: 1.41 oz. (40 g)
				4. Material: Mineral Filled High Density Copolymer Polypropylene (Bison #B-PP-2025)

\*\* NOTE TO SPECIFIER \*\* Select and edit the following paragraphs as required and delete those not required.

* + 1. Base Leveler Disks:
			1. Model LD4: Placed beneath pedestals, adds approximately 5/16 to 1/2 inches to pedestal height, increases base bearing surface area to 50.3 in2 (325 cm2), and allows for 1/4 to 1 inch per foot slope compensation.
				1. Slope: 1/4 inch per foot each. A total of four LD4s may be used under models V1-V4, as well as HD-25's-HD-75's for up to 1 inch of slope compensation; LD4s are not recommended for use under VT Fixed Height Pedestals.
				2. V-Series Pedestals include a Model VB Integral Base Leveler Disk (not sold separately) that compensates for 0 to 2 inch per foot slope.
				3. Diameter: 8 inches (203 mm); Center point thickness 3/8 inch (9.5 mm).
				4. Material: Mineral Filled High Density Copolymer Polypropylene. Bison #B-PP-2025. Contains 20 percent post-industrial recycled material.
		2. Shims:
			1. Model B11: Flexible Shim 1/16 inch (1.5 mm)
				1. Use no more than 4 shims per pedestal. If using a segment, adhere it to the pedestal with construction adhesive. Ensure the adhesive does not contact the roofing membrane.
				2. Material: Thermoplastic Elastomer.
			2. Model PS1: Rigid Poly Shims 1/8 inch (3.175 mm)
				1. Use no more than 2 shims. If using a segment, adhere it to the pedestal with construction adhesive. Ensure the adhesive does not contact the roofing membrane.
				2. Material: Mineral Filled High Density Copolymer Polypropylene. Bison #B-PP-2025. Contains 20 percent Post-industrial recycled material.
			3. Model: BB-Wedge
				1. Spacing Wedge.
				2. Material: Mineral Filled High Density Copolymer Polypropylene. Bison #B-PP-2025. Contains 20 percent post-industrial recycled material
		3. Base Pads:
			1. Model FFB: Pedestal base pad for on-grade installations.
				1. Provides a large 12 by 12 by 1/4 inch (305 mm by 305 mm by 6 mm) base bearing surface.
				2. Material: Mineral Filled High Density Copolymer Polypropylene. Bison #B-PP-2025. Contains 20 percent Post-industrial recycled material.
			2. Model FIB: Pedestal base pad for use on roofing and waterproofing installations over low density insulation.
				1. Provides a large 12 by 12 by 11/16 inch (305mm by 305mm by 17.5mm) base bearing surface.
				2. Material:

Base Pad: Mineral Filled High Density Copolymer Polypropylene. Bison #B-PP-2025. Contains 20 percent post-industrial recycled material.

Base Plate: Galvanized Metal. Contains 37.2 percent post-consumer recycled material - 55.2 percent total scrap steel content.

* + 1. Joist Top:
			1. Model JT: Pedestal accessory to construct joist and plank decks. Accommodates 2 by and 4 by joists.
				1. Adds 3/16 inch (4.5 mm) in height. Creates a base bearing surface for joist installation.
				2. Material: Polypropylene. Bison #B-PP-2025.
		2. Bison Brace System:
			1. Required for Installations 24 to 36 inches in height or for applications requiring additional stability.
			2. Material: All Bison Bracing components are manufactured using Mineral Filled High Density Copolymer Polypropylene. Bison #B-PP-2025. Contains 20% post-industrial material.
			3. Model BB-C: Bison Brace Collar
				1. Fits Model V3 and V4 only.
				2. Allows for braced connections away from the pedestal base.
				3. Required for additional stability installations (i.e. Seismic Conditions).
				4. Optional for Excessive Cavity Height, Wind Uplift, On-Grade installations.
			4. Model BB-BRACE: Bison Brace Kit
				1. For 11-3/4 to 36 inch wide pavers (center of pedestal to center of pedestal measurement).
				2. BB-BRACES can be trimmed in order to accommodate listed range as required.
				3. Kit contains two 17 inch long brace pieces and BB-LATCHES.
			5. Model BB-FH: Bison Fixed Height Brace Kit
				1. For 8-1/2 to 25-1/2 inch wide pavers (center of pedestal to center of pedestal measurement)
				2. BB-FH can be trimmed in order to accommodate listed range as required.
				3. Kit contains two each 12 inch long brace pieces and BB-SCREWS.
			6. Model BB-CONNECT: Bison Fixed Height Brace Connector
				1. Allows for a braced transition between BB-FH and adjustable pedestal base with BB-PEGS.
				2. For use when transitioning from fixed height pedestals and fixed height bracing to adjustable pedestals and bracing; while ensuring a fully interconnected decking system.

\*\* NOTE TO SPECIFIER \*\* Select the the following two paragraphs for use with Versadjust pedestal base components. Delete if not required.

* + - 1. Model BB-PEGS
				1. Individual pegs to be inserted into Versadjust Pedestal Base that allow for secure BB-BRACE attachment via quick clip locking- mechanism.
				2. Six Model BB-PEGS are required for each Versadjust pedestal receiving bracing, and Eight Model BB-PEGS are required for each Model LO Pedestal receiving bracing.
			2. Model: V1-316 BB-PEGS / V2-316 BB-PEGS / V3-316 BB-PEGS / V4-316 BB-PEGS or V1-18 BB-PEGS / V2-18 BB-PEGS / V3-18 BB-PEGS / V4-18 BB-PEGS
				1. Versadjust and BB-PEGS pre-inserted into Pedestal Base at the factory.

\*\* NOTE TO SPECIFIER \*\* Select the the following two paragraphs for use with Screwjack pedestal base components. Delete if not required.

* + - 1. Model BB-PEGS
				1. Individual pegs to be inserted into ScrewJack Pedestal Base that allow for secure BB-BRACE attachment via quick clip locking-mechanism.
				2. Eight Model BB-PEGS are required for each ScrewJack Pedestal receiving bracing.
			2. Model: B1 BB-PEGS / B2 BB-PEGS / B3 BB-PEGS / B4 BB-PEGS
				1. ScrewJack and BB-PEGS pre-inserted into Pedestal Base at the factory.

\*\* NOTE TO SPECIFIER \*\* Select and edit the following paver tiles and trays as required and delete those not required.

* 1. PAVER TILES AND TRAYS
		1. Wood Tiles: Weight Bearing Capacity 1,250 lbs./ per tile (FS:3)

\*\* NOTE TO SPECIFIER \*\* Select Tile(s) required from the following paragraphs and delete those not required.
\*\* NOTE TO SPECIFIER \*\*Bison offers the following FSC® wood deck tiles that are certified by the Forest Stewardship Council (FSC®). Bison wood tiles weather over time, developing a silvery-gray patina. If maintaining the natural wood color is desired, wood tiles can be periodically cleaned and sealed.

* + - 1. Model: WT-FSC-IPE -24 Ipe Wood Tile Smooth FSC Certified SCS-COC-002585.
				1. Dimensions: 23-7/8 inches by 23-7/8 inches by 1.69 inches. nominal
				2. Weight per tile: 25 lbs.
				3. Fire Rating: Class A. Meets and exceeds ASTM E 108 Flame Spread Test.
				4. Slip Resistance: Exceeds ASTM C 1028.
				5. Janka Hardness: 3,680 lbf
				6. Color: Reddish Brown (Note: Tiles are a natural product and have variations in color and grain.)
				7. Surface: Smooth
			2. Model: WT-FSC-MAS -24 Massaranduba Wood Tile Ribbed (FSC Certified SCS-COC-002585)
				1. Dimensions: 23-7/8 inches by 23-7/8 inches by 1.69 inches. nominal
				2. Weight per tile: 24 lbs.
				3. Fire Rating: Class A. Meets and exceeds ASTM E 108 Flame Spread Test.
				4. Slip Resistance: Exceeds ASTM C 1028.
				5. Janka Hardness: 3,540 lbf
				6. Color: Reddish Brown (Note: Tiles are a natural product and have variations in color and grain.)
				7. Surface: Ribbed
			3. Model: WTFSC-100 percent Garapa-24-7 Plank-Smooth (FSC Certified SCS-COC-002585)
				1. Dimensions: 23-7/8 inches by 23-7/8 inches by 1.69 inches. nominal
				2. Weight per tile: 24 lbs.
				3. Fire Rating: Class A. Meets and exceeds ASTM E 108 Flame Spread Test.
				4. Slip Resistance: Exceeds ASTM C 1028.
				5. Janka Hardness: 3,190 lbf
				6. Color: Golden Brown (Note: Tiles are a natural product and have variations in color and grain.)
				7. Surface: Smooth
			4. Model WT-IPE-24 Smooth Ipe Wood Tile
				1. Dimensions: 23-7/8 inches by 23-7/8 inches by 1.69 inches nominal
				2. Weight per tile: 24 lbs.
				3. Fire Rating: Class A. Meets and exceeds ASTM E 108 Flame Spread Test.
				4. Slip Resistance: Exceeds ASTM C 1028.
				5. Janka Hardness: 1630 lbf
				6. Color: Brown Note: Tiles are a natural product and have variations in color and grain.
				7. Surface: Smooth
			5. Model WT-IPE-24 Ribbed Ipe Smooth Wood Tile
				1. Dimensions: 23-7/8 inches by 23-7/8 inches by 1.69 inches nominal.
				2. Weight per tile: 24 lbs.
				3. Fire Rating: Class A. Meets and exceeds ASTM E 108 Flame Spread Test.
				4. Slip Resistance: Exceeds ASTM C 1028.
				5. Janka Hardness: 3,680 lbf
				6. Color: Brown Note: Tiles are a natural product and have variations in color and grain.
				7. Surface: Ribbed
			6. Model: WT-Cumaru-24-8-Smooth 8 Plank Wood Tile
				1. Dimensions: 23-7/8 inches by 23-7/8 inches by 1.69 inches nominal
				2. Weight per tile: 24 lbs.
				3. Fire Rating: Class A. Meets and exceeds ASTM E 108 Flame Spread Test.
				4. Slip Resistance: Exceeds ASTM C 1028.
				5. Janka Hardness: 3,540 lbf
				6. Color: Golden Brown Note: Tiles are a natural product and have variations in color and grain.
				7. Surface: Smooth
			7. Model: WT-Mahogany-24-5 Smooth 5 Plank Wood Tile
				1. Dimensions: 24.125 inches by 24.125 inches by 1.77 inches nominal
				2. Weight per tile: 14 lbs.
				3. Fire Rating: Class A. Meets and exceeds ASTM E 108 Flame Spread Test.
				4. Slip Resistance: Exceeds ASTM C 1028.
				5. Janka Hardness: 800 lbf
				6. Color: Golden Brown Note: Tiles are a natural product and have variations in color and grain.
				7. Surface: Smooth
			8. Model: WT-Bamboo 24-4 Smooth 4 Plank
				1. Dimensions: 23-7/8 inches by 23-7/8 inches by 1.57 inches nominal
				2. Weight per tile: 24.35 lbs.
				3. Fire Rating: Class A. Meets and exceeds ASTM E 108 Flame Spread Test.
				4. Slip Resistance: Exceeds ASTM C 1028.
				5. Janka Hardness: 3,850 lbf
				6. Color: Dark Brown Note: Tiles are a natural product and have variations in color and grain.
				7. Surface: Smooth
			9. Model: WT-IPE-30-10 Smooth 10 Plank
				1. Dimensions: 29-7/8 inches by 29-7/8 inches by 1.69 inches nominal
				2. Weight per tile: 34 lbs.
				3. Fire Rating: Class A. Meets and exceeds ASTM E 108 Flame Spread Test.
				4. Slip Resistance: Exceeds ASTM C 1028.
				5. Janka Hardness: 3,680 lbf
				6. Color: Brown Note: Tiles are a natural product and have variations in color and grain.
				7. Surface: Smooth
			10. Model WT-IPE-48 Smooth Ipe Wood Tile
				1. Dimensions: 47-7/8 inches by 23-7/8 inches by 1.69 inches nominal.
				2. Weight per tile: 48 lbs.
				3. Fire Rating: Class A. Meets and exceeds ASTM E 108 Flame Spread Test.
				4. Slip Resistance: Exceeds ASTM C 1028.
				5. Janka Hardness: 3,680 lbf
				6. Color: Brown (Note: Tiles are a natural product and have variations in color and grain.)
				7. Surface: Ribbed.
			11. Model WT-IPE-48 Ipe Ribbed Wood Tile
				1. Dimensions: 47-7/8 inches by 23-7/8 inches by 1.69 inches nominal.
				2. Weight per tile: 48 lbs.
				3. Fire Rating: Class A. Meets and exceeds ASTM E 108 Flame Spread Test.
				4. Slip Resistance: Exceeds ASTM C 1028.
				5. Janka Hardness: 3,680 lbf
				6. Color: Brown (Note: Tiles are a natural product and have variations in color and grain.)
				7. Surface: Smooth.
			12. Model: WT-CUMARU-48-8 Smooth 8 Plank
				1. Dimensions: 47.9375 inches by 23.875 inches by 1.69 inches nominal.
				2. Weight per tile: 48 lbs.
				3. Fire Rating: Class A. Meets and exceeds ASTM E 108 Flame Spread Test.
				4. Slip Resistance: Exceeds ASTM C 1028.
				5. Janka Hardness: 3,540 lbf
				6. Color: Golden Brown (Note: Tiles are a natural product and have variations in color and grain.)
				7. Surface: Smooth.
			13. Model: Semi-Custom WT-IPE-72-6 Smooth 6 Plank
				1. Dimensions: 72 inches by 23-7/8 inches by 1.69 inches nominal.
				2. Weight per tile: 71 lbs.
				3. Fire Rating: Class A. Meets and exceeds ASTM E 108 Flame Spread Test.
				4. Slip Resistance: Exceeds ASTM C 1028.
				5. Janka Hardness: 3,680 lbf
				6. Color: Brown (Note: Tiles are a natural product and have variations in color and grain.)
				7. Surface: Smooth.
			14. Model: Semi-Custom WT-IPE-96-6- Smooth 8 Plank
				1. Dimensions: 96.0625 inches by 23.875 inches by 1.69 inches nominal.
				2. Weight per tile: 88 lbs.
				3. Fire Rating: Class A. Meets and exceeds ASTM E 108 Flame Spread Test.
				4. Slip Resistance: Exceeds ASTM C 1028.
				5. Janka Hardness: 3,680 lbf
				6. Color: Brown (Note: Tiles are a natural product and have variations in color and grain.)
				7. Surface: Smooth.
		1. Paver Trays: Weight Bearing Capacity 1,250 lbs./ per tile (FS:3)

\*\* NOTE TO SPECIFIER \*\* Select Tray(s) required from the following paragraphs and delete those not required.

* + - 1. Model: PT-TRAY-2424:
				1. Dimensions: 23.43 inches by 23.43 inches by 0.63 inches. nominal
				2. Paver Size: Fits 595-602 x 595-602 mm pavers
				3. Weight: 9.15 lbs (4.16 kg)
				4. Component Materials:

G90 Galvanized Sheet Steel

LEED Information--contains approximately: 55.2 percent Scrap Steel; 41.3 percent Alloys and other Iron Units; 37.2 percent Post-Consumer Recycled Content; 18.0 percent Pre-Consumer Recycled Content

Peel and Stick Butyl Adhesive Pad

Color: Black; Odor

No Objectionable Odors

Service Temperature: minus 20 degrees F to 200 degrees F

Percent Solids: >99

Specific Gravity: 1.60 =/- 0.05 g/cm3

Tensile Yield: Cohesive Failure 17 psi

Weight: 1.55 lbs plus or minus 0.10 lbs

* + - 1. Model PT-TRAY-3618
				1. Dimensions: 35.24"L x 17.5"W x 0.63"H (895 x 445 x 15.9 mm).
				2. Paver Size: Fits 895-902 x 445-452 mm pavers
				3. Weight: 10.20 lbs (4.64 kg)
			2. Component Materials:

G90 Galvanized Sheet Steel

LEED Information--contains approximately: 55.2 percent Scrap Steel; 41.3 percent Alloys and other Iron Units; 37.2 Percent Post-Consumer Recycled Content; 18.0 percent Pre-Consumer Recycled Content

Peel and Stick Butyl Adhesive Pad

Color: Black; Odor

No Objectionable Odors

Service Temperature: minus 20 degrees F to 200 degrees F

Percent Solids: >99

Specific Gravity: 1.60 =/- 0.05 g/cm3

Tensile Yield: Cohesive Failure 17 psi

Weight: 1.55 lbs plus or minus 0.10 lbs

* + - 1. Model PT-TRAY-4812
				1. Dimensions: 47"L x 11.63"W x 0.63"H (1194 x 296 x 15.9 mm).
				2. Paver Size: Fits 1194-1201 x 296-303 mm pavers
				3. Weight: 9.0 lbs (4.09 kg)
				4. Component Materials:

G90 Galvanized Sheet Steel

LEED Information--contains approximately: 55.2 percent Scrap Steel; 41.3 percent Alloys and other Iron Units; 37.2 Percent Post-Consumer Recycled Content; 18.0 percent Pre-Consumer Recycled Content

Peel and Stick Butyl Adhesive Pad

Color: Black; Odor

No Objectionable Odors

Service Temperature: minus 20 degrees F to 200 degrees F

Percent Solids: >99

Specific Gravity: 1.60 =/- 0.05 g/cm3

Tensile Yield: Cohesive Failure 17 psi

Weight: 1.55 lbs plus or minus 0.10 lbs

* + - 1. Model PT-TRAY-4824
				1. Dimensions: 47"L x 23.43"W x 0.63"H (1194 x 595 x 15.9 mm)
				2. Paver Size: Fits 1194-1201 x 595-602 mm pavers.
				3. Weight: 18.1 lbs (8.23 kg)
				4. Component Materials:

G90 Galvanized Sheet Steel

LEED Information--contains approximately: 55.2 percent Scrap Steel; 41.3 percent Alloys and other Iron Units; 37.2 Percent % Post-Consumer Recycled Content; 18.0 percent Pre-Consumer Recycled Content

* + - * 1. Peel and Stick Butyl Adhesive Pad

Color: Black; Odor

No Objectionable Odors

Service Temperature: minus 20 degrees F to 200 degrees F

Percent Solids: >99

Specific Gravity: 1.60 =/- 0.05 g/cm3

Tensile Yield: Cohesive Failure 17 psi

Weight: 1.55 lbs plus or minus 0.10 lbs

\*\* NOTE TO SPECIFIER \*\*Select the Modular Planter, Seating and Storage Cubes as required from the following paragraphs. Delete those not required. Custom cubes in custom sizes, colors, stainless steel and weathering steel are available. Contact the manufacturer for additional information.

* 1. MODULAR PLANTER, SEATING AND STORAGE CUBES
		1. Modular Planter, Seating and Storage Cubes
			1. Single Ipe Hardwood Cubes
				1. Model: CUBE-IPE242417
				2. Dimensions: 24inches L by 24 inches W by 17.5 inches H
				3. Standard: Liner included
				4. Custom Sizes Available
				5. Weight 64 lbs

\*\* NOTE TO SPECIFIER \*\* The following paragraph is optional. Delete if not required.

* + - * 1. Ipe Single Bison Top: Provide where indicated.

Model: TOP-IPE2424

Dimensions: 24 inches L by 24 inches W by .75 inches H. Top adds .75 inch to Cube Height

Custom Sizes Available

Weight 23 lbs

* + - 1. Double Ipe Hardwood Cubes
				1. Model: CUBE-IPE244817
				2. Dimensions: 24 inches L by 48 inches W by 17.5 inches H
				3. Standard: Liner included
				4. Custom Sizes Available
				5. Weight 128 lbs

\*\* NOTE TO SPECIFIER \*\* The following paragraph is optional. Delete if not required.

* + - * 1. Ipe Double Bison Top

Model: TOP-IPE24248

Dimensions: 48 inches L by 24 inches W by .75 inches H Top Adds .75 inch to Cube Height

Weight 48 lbs

* + - 1. Single Aluminum Cubes: Fabricated using recycled raw material with a 47-66 percent recycled content.
				1. Model: CUBE-PC242420; Dimensions: 24 inches L by 24 inches W by 20 inches H
				2. Model: CUBE-PC242436; Dimensions: 24 inches L by 24 inches W by 36 inches H
				3. Custom Sizes Available
				4. Standard: Liner with drain holes included:
				5. Finish:

Low VOC powder coat finishes Standard.

\*\* NOTE TO SPECIFIER \*\*Select the color required and delete those not required. Note that custom colors are also available. Contact the manufacturer for additional information.

Colors: Red

Colors: Black

Colors: White

Colors: Charcoal

Colors: Silver

Colors: Zinc

\*\* NOTE TO SPECIFIER \*\* The following paragraph is optional. Delete if not required.

* + - * 1. Ipe Single Bison Top: Provide where indicated.

Model: TOP-IPE2424

Dimensions: 24 inches L by 24 inches W by .75 inches H. Top adds .75 inch to Cube Height

Custom Sizes Available

Weight 23 lbs

* + - 1. Double Cubes: Fabricated using recycled raw material with a 47-66 percent recycled content.
				1. Model: CUBE-PC482420; Dimensions: 48 inches L by 24 inches W by 20 inches H
				2. Model: CUBE-PC482436; Dimensions: 48 inches L by 24 inches W by 36 inches H
				3. Custom Sizes Available
				4. Standard: Liner with drain holes included:
				5. Finish:

Low VOC powder coat finishes Standard.

\*\* NOTE TO SPECIFIER \*\*Select the color required and delete those not required. Note that custom colors are also available. Contact the manufacturer for additional information.

Colors: Red

Colors: Black

Colors: White

Colors: Charcoal

Colors: Silver

Colors: Zinc

\*\* NOTE TO SPECIFIER \*\* The following paragraph is optional. Delete if not required.

* + - * 1. Ipe Double Bison Top

Model: TOP-IPE24248

Dimensions: 48 inches L by 24 inches W by .75 inches H Top Adds .75 inch to Cube Height

Weight 48 lbs

1. EXECUTION
	1. EXAMINATION
		1. Do not begin installation until substrates have been properly prepared.
		2. Substrate must be clean and free of projections and debris that could impair the performance of the pedestals or the total deck system
		3. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.
	2. PREPARATION
		1. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
		2. Clean surfaces thoroughly prior to installation.
		3. Establish accurate lines, levels and pattern.
		4. Verify that substrate to receive the deck supports is structurally capable of carrying the dead and live loads anticipated.
	3. INSTALLATION
		1. Install in accordance with manufacturer's instructions.
		2. For roof top applications provide the support required for each pedestal to create an adequate bearing surface using the method specified. Locate on the grid of each pedestal and where each measured grid line meets the perimeter.
		3. For on grade applications provide the support required for each pedestal to create an adequate bearing surface using the method specified. Locate on the grid of each pedestal and where each measured grid line meets the perimeter.
		4. Adjust each deck support to a "top of pedestal" elevation marked around the perimeter.
		5. Place deck supports along the grid lines. On larger decks, pedestals should be pre-sorted and pre-set to the proper elevation and placed in position prior to the installation of pavers or tiles.
		6. As the deck supports are placed and loaded with pavers or tiles, fine vertical adjustment can be made by rotating the base or bottom of the deck support. Clockwise rotation of the pedestal base will raise the bearing surface and the deck. Counter- clockwise rotation will lower the top bearing surface.
		7. Pedestals have built in height limit indicator ' bumps'. When pedestal is fully extended, height limit indicator "bumps" will be felt and heard, indicating the maximum height of the pedestal. Do not extend pedestal beyond the height limit indicators. Always maintain adequate thread engagement. Never over extend any pedestal.
		8. Use shims to compensate for slight irregularities in decking panel thickness. Place on top of the pedestal, under the corner(s) of the decking tile or paver. Use no more than 2 shims on top of the pedestal and always adhere 1/4 wedges with construction adhesive.
		9. Stackable Fixed Height Pedestals: Complete deck and grid layout as required. Stack no more than 4 fixed height pedestals together and place in lieu of adjustable pedestals where needed. Spacer tabs can be removed to accommodate perimeter and corner support locations.

\*\* NOTE TO SPECIFIER \*\*Include the following two paragraph for use with the Versadjust Series Pedestal System. Delete if not required.

* + 1. V Series Slope Compensation:
			1. Use integrated base leveler disks to compensate for up to 1/2 inch per foot slope. Additional slope compensation can be added by placing two additional LD4 disks under the pedestal base to compensate for up to 1 inch per foot of slope.
			2. Place the thickest edge of the disk (located on the edge by a small finger tab) at the down slope side of the deck support, one disk compensates for 1/4 inch per foot of slope. Using two to four disks, rotate one in relation to the other to create a level deck support.
			3. Shims may be used in multiples, whole or segmented, and placed under the base to level the deck support.
			4. All shims under a pedestal must be adhered to each other or the pedestal (NOT to the roofing membrane) with construction adhesive. Shim no more than 1/8 inch (3 mm) beneath each pedestal.
			5. On top of a pedestal: Use no more than 2 shims.
		2. Versadjust Series Bison Brace Pedestal Bracing:
			1. Pedestal bracing is required for added stability for Installations 24 inches - 36 inches in height and for Installations requiring additional stability.
			2. BB - S Short Bison Brace: Install around the outside perimeter of a walk deck where pedestals are installed where less than the typical 24 inch spacing occurs and shorter arms are required.
			3. BB - L Long Bison Brace: Install in the interior area of a walk deck where pedestals and 23-7/8 inch by 23-7/8 inch surfacing panels are installed providing uniform 24 inch spacing.
			4. Do not install deck surfacing panels until Bison Braces are properly installed.

\*\* NOTE TO SPECIFIER \*\*Include the following paragraph for use with the Level.It and ScrewJack Series Pedestal System. Delete if not required.

* + 1. Slope Compensation:
			1. Use a base leveler disk to level the pedestal base. Place one to four disks under the pedestal base to compensate for up to 1 inch per foot of slope. Compensate for slope by placing the disks' thickest edge (located on the edge by a small finger tab) at the down slope side of the deck support, one disk compensates for 1/4 inch per foot of slope. Using two to four disks, rotate one in relation to the other to create a level deck support.
			2. Shims may be used in multiples, whole or segmented, and placed under the base to level the deck support.
			3. Under a pedestal: All shims under a pedestal must be adhered with construction adhesive to each other - never to the membrane. Shim no more than 1/8 inch (3mm) beneath each pedestal.
			4. On top of a pedestal: Use no more than 2 shims.
		2. Deck Support Placement And Final Adjustment:
			1. Deck supports and deck surface panels shall be placed in accordance with the pedestal manufacturers written instructions. Use of paver lifters, is recommended.
			2. Pedestals are designed to be rotated for final slight adjustment when pedestals are fully loaded. Deck supports should be leveled in each succeeding row as the installation proceeds.
			3. Final height adjustment or maintenance is easily made by rotating the base in a clockwise or counter-clockwise direction to raise or lower the deck surface material.
			4. Additional sections of shims may be used and should be available for regular maintenance. Shims may be used in multiples, whole or segmented, and placed under the base or on top the pedestal to level the deck support.
			5. On top of pedestal use construction adhesive to adhere sections of shims. Construction adhesive is not required when using whole shims on top of a pedestal.
			6. Beneath a pedestal use a small amount of construction adhesive to adhere sections of shims and/or whole shims to each other or to the pedestal. Unless specified to do so, DO NOT use construction adhesive to adhere pedestal or shims to insulation, roofing or waterproofing membrane.
		3. Perimeter Containment:
			1. Any area of a deck that is not restrained by a parapet or foundation wall must be ' boxed-in' and contained. Deck panels will move if all sides are not adequately restrained.
			2. Perimeter containment located at the outside of the deck must be installed to provide restraint. No movement should be allowed at the perimeter of the deck system greater than 1/8 inch.
	1. FIELD QUALITY CONTROL
		1. Inspect frequently during installation to assure that grid spacer lines are being maintained in a straight and consistent pattern and that deck panels or pavers are level and not rocking.
		2. Confirm that deck pedestal height does not exceed the specified height for the V Series:
		3. Inspect to assure that all paver spacing between tiles and at perimeter containment does not exceed a 1/8 inch. Particular attention should be made to assure that all pedestrian entry or access points to the deck are level and that the deck surface tiles are not randomly raised or uneven creating a tripping or safety hazard.
	2. PROTECTION
		1. Protect installed products until completion of project.
		2. Touch-up, repair or replace damaged products before Substantial Completion.
	3. CLEANING AND ADJUSTING
		1. Tile Cleaning: Clean wood tiles at the completions of the installation using methods and materials recommended by the tile manufacturer.
		2. Wood Tile Sealing: Seal wood tiles at the completions of the installation using methods and materials recommended by the wood tile manufacturer.
		3. Instruct the Owner about performing routine maintenance of the deck. Check for rocking pavers and adjust or shim immediately. Substrates can settle and pedestals may have to be readjusted. Failure to do so can cause a tripping hazard. Periodically check spacer tabs and immediately replace broken tabs to limit deck movement. Make sure the edge restraint stays intact and structurally sound.
	4. PROTECTION
		1. Protect installed products until completion of project.
		2. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION