- **DO NOT PRINT**

LEVEL·UP™

ADJUSTABLE PEDESTAL PAVER SUPPORT SYSTEM
FOR BUILDING ON-GRADE ELEVATED PATIO PAVER DECKS

IMPORTANT

- Before beginning any work, **READ ALL INSTRUCTIONS AND MATERIALS PROVIDED WITH THIS PRODUCT**.
- Installation **MUST** be completed in accordance with this Bison Level. Up Installation Guide instructions. Follow these instructions and utilize best practices for actual installation.
- Bison Level.Up Pedestal Paver Supports, components and accessories are for the **SOLE PURPOSE** of installing ground-level, elevated paver patio decks only. **NOT FOR ROOFTOP INSTALLATIONS.**
- The Level.Up Pedestal Systems are **NOT** to be attached to a home, structure or foundation.
- Level.Up Adjustable Pedestals are **NOT** for use in high wind zone areas. Before beginning any work, determine whether the paver patio deck will be installed in a high wind zone. High wind zone maps are available on the International Code Council website at iccsafe.org.
- **ALWAYS** check all local zoning laws, municipalities, codes and Homeowners Association (HOA) regulations before beginning any work.
- Product is designed to meet or exceed Standard 2024 International Residential Code (IRC) building practices.

SAFETY FIRST

- Verify that the correct materials, tools, equipment and personal protective equipment (PPE) are used.
- Installation of a paver patio deck may require the use of tools, equipment and materials that pose a risk of serious injury and/or death.
- **ALWAYS** wear appropriate personal protective equipment (PPE). This includes work gloves, safety glasses and respiratory masks when required. Failure to do so could result in serious injury and/or death.
- Failure to install the paver patio deck consistent with the provided instructions and/or ignoring any hazard disclaimers stated in this document could cause total patio deck failure and/or collapse, which could result in property damage, serious injury, and/or death.
- **ALWAYS** follow power tool, hand tool, and adhesive manufacturers' safety instructions, warnings and guidelines for safe use and handling. Failure to do so could result in serious injury and/or death.
- **ALWAYS** contact local utility companies before digging or removing soil.
- Do **NOT** attempt to lift heavy objects alone. Use lifting aids or ask for help when moving heavy objects. Use proper techniques to avoid muscle strain or back injuries.
- Be aware of surroundings and when working around the paver patio deck during construction to avoid tripping.
- Ensure Level.Up pedestals and paver patio decks are stable throughout the construction process. Adjust paver pedestal components for slope and height to maintain level and stability. Add proper accessories when additional slope or height is required per instructions stated in this document.
- Be careful not to fall off the edge of the elevated paver patio deck. Railings and/or guards may not be required for patio deck heights below 20 inches. However, a fall from this height could still result in serious injury and/or death. **ALWAYS** check with local municipalites and local ordinances to determine if railings..
- Stair or step may be necessary depending on the desired height of the paver patio deck. Be sure to verify if a step or "step down" fixture is required with the design. Always check with local municipalities for verification of final installation.

Please visit **www.LEVEL-UPDECKING.com** for additional information and support materials.

TABLE OF CONTENTS

LEVEL.UP ADJUSTABLE PAVER PEDESTAL SUPPORT SYSTEMS ARE FOR GROUND SURFACE INSTALLATION ONLY. NOT FOR USE ON ROOFTOPS.

1. PATIO DECK BUILDING TERMS

1. **2CM Porcelain Paver:** A porcelain tile that is typically used for outdoor flooring and is around 3/4 inch thick.
2. **Cantilever:** The distance a horizontal structural element extends beyond its vertical support.
3. **Concrete Paver:** A pre-cast concrete slab or tile used for outdoor flooring.
4. **Drainage:** The means of removing surplus water, either by way of a positive slope or system of drainage pipes.
5. **Elevated Patio Deck:** A patio consisting of paver surface materials and installed on telescoping pedestals to elevate it off the ground.
6. **Fascia:** Board(s) that runs along the perimeter of the elevated patio as a finishing trim. Also known as skirting boards.
7. **Finished Patio Deck Height:** The total height of the patio deck in inches from the ground to the top of the surface paver material.
8. **Free-Standing Deck:** A self-supporting deck that is not connected to a home or other fixed structure.
9. **Level.Up Adjustable Pedestal Paver System:** Telescoping adjustable pedestal, components and accessories used to elevate and support outdoor pavers.
10. **Low-Rise / Ground-Level Deck:** Any exterior deck 20 inches or less in height from the top of the finished deck surface at its highest point to the ground.
11. **Mechanical Fasteners:** Hardware used to attach various wooden deck elements (example: nails, screws, nuts, bolts, framing angles).
12. **On-Grade:** Built on the ground level surface, over concrete or compacted soil.
13. **Patio:** Ground level structures made of stone, brick, gravel or concrete. Often adjacent to the home, but can be totally separate. Not attached to any structure, they can vary in size, shape and purpose.
14. **Paver Safety Backer:** Lightweight galvanized steel sheet used when installing 2CM porcelain pavers. Enhances paver impact resistance, provides additional paver support and protection in the event of paver breakage.
15. **Pedestal Elevation Height:** The final height of the pedestal from the ground to the top of the pedestal after subtracting the paver thickness from the total finished patio deck height.
16. **Perimeter Containment Wall:** A structural perimeter containment or framing, such as a parapet or foundation wall, that restrains the outside of the patio deck to prevent lateral movement of the pedestals and pavers.
17. **Perimeter Pavers:** Surface material pavers that are installed around the perimeter of the patio deck. Typically these pavers need to be cut down to smaller sizes.
18. **Porch:** A covered area next to the entry of a building. It can be elevated or built at ground level.
19. **Pounds Per Square Foot (PSF):** A unit of measurement that indicates the pressure exerted by a force of one pound distributed over an area of one square foot. It indicates how much weight can be placed on a square foot space for safety purposes.
20. **Railing:** Barrier consisting of a rail and supports.
21. **Slope:** Change in surface elevation over a certain distance.
22. **Stairs:** Group of steps connecting a lower surface to a higher one.
23. **Surface Materials:** The paver or tile used, such as a concrete paver, 2CM porcelain tile paver or wood tile, that will set on top of the pedestal systems and serve as the “floor” of the elevated patio deck. Must be rated for outdoor, on-grade use.
24. **Threshold:** Strip of wood, metal, or stone forming the bottom of a doorway and crossed in entering a house or room.

2. HAZARDS & DISCLAIMERS

- All drawings provided in this Installation Guide are **NOT** to scale.
- Bison Innovative Products & DAP Global Inc. are **NOT** responsible for improper installation.
- Bison Innovative Products & DAP Global Inc. are **NOT** responsible for damages caused by improper installation or misuse.
- Make sure the building site is properly prepared before beginning construction. ***See Section 8 for details.***
- The perimeter of the elevated paver patio deck **MUST** be contained on all sides by a perimeter containment wall to prevent lateral movement of the pedestals and pavers. ***See Section 8 for details.***
- The Bison Level.Up Adjustable Pedestal, including all components and accessories, is **NOT** to exceed 12 inches in height. This does **NOT** include the additional height of the surface paver material.
- Do **NOT** overload the Level.Up Adjustable Paver Pedestals with excessive weight. Each Level.Up pedestal is rated to 750 lbs weight bearing capacity. Heavy features or fixtures exceeding 350 lbs (examples include but are not limited to hot tubs, water fixtures, concrete statues) will require additional pedestal support.
- Do **NOT** attach pergolas to the Level.Up paver patio deck.
- Do **NOT** place fire features, stoves or chimeneas directly on top of the paver patio deck.
- Do **NOT** add any feature or fixture that creates heavy vibration that can be transmitted to the foundation and cause pedestal shifting or soil erosion. Examples include but are not limited to air conditioning units, HVAC condensers, fountains, or home generators.
- All motor vehicles are strictly **PROHIBITED** from being stored or driven on Bison Level.Up Pedestal paver patio decks. Examples include, but are not limited to, cars, motorcycles, 4-wheelers, ATV's, riding lawn mowers. **BISON LEVEL.UP PEDESTAL PAVER PATIO DECKS ARE DESIGNED FOR PEDESTRIAN TRAFFIC ONLY.**

3. LEVEL.UP PAVER PEDESTAL KIT CONTENTS & ASSEMBLY

Open the Level.Up Adjustable Pedestal Paver Support System Kit (LU-KIT-PAVER-16) and check to make sure that the following materials are included. The standard kit contains sixteen (16) pieces of each item shown below (Spacer Tab, Adjustable Pedestal, Slope Leveler, Floating Foundation Base). The optional Level.Up Expansion Kit (LU-KIT-PAVER-4) contains four (4) pieces of each item. **ALWAYS** inspect all products and parts before using to ensure they are free from damage and in proper working condition.

The Level.Up Paver Pedestal and components included in the kit should be assembled in the order and direction illustrated in ***Image 1*** below.

DO NOT COMBINE OR SUBSTITUTE OTHER MANUFACTURERS' PEDESTALS, PEDESTAL ACCESSORIES OR PARTS WITH THE BISON LEVEL.UP PEDESTAL SYSTEM.

Image 1

SPACER TAB (LU-ST)

- Holds paver in place on the Adjustable Pedestal (LU)
- Sets on top of the Adjustable Pedestal (LU)
- Provides uniform spacing of pavers/tiles and allows for drainage
- 3/16 inch (4.5 mm) wide tabs
- Spacer Tabs can be broken off individually or the tab set can be removed entirely, to accommodate perimeter and corner support locations
- Spins in place to allow for height adjustment while pedestal is loaded

ADJUSTABLE PEDESTAL (LU)

- Raise or lower height by twisting by hand to create a level surface (no tools required)
- Twist base clockwise to raise and counter clockwise to lower
- Height Range: 2 - 4-3/4 inches (pedestal only)
- Durable, commercial-quality, high-density, copolymer polypropylene
- Resistant to water, mold, and freeze-thaw cycles
- Base diameter radius: 7-7/8 inches

SLOPE LEVELER (LU-SL)

- Levels the base of the Adjustable Pedestal (LU) to compensate for ground slope & keep patio deck level
- Compensates for up to 1/4 inch per foot slope (2%)
- Stack up to four Slope Levelers (*additional sold separately*) for a maximum of 1 inch per foot slope (8%)
- Place smooth side down. Rotate Slope Leveler to align to needed slope

FLOATING FOUNDATION BASE (LU-FFB)

- Place directly on ground below each Adjustable Pedestal to disperse the patio load
- Creates larger load bearing surface area to prevent the pedestal base from settling
- 12 inches wide x 12 inches long x 1/4 inch high

PEDESTAL HEIGHT OPTIONS:

The height of the (LU) Level.Up paver pedestal can be increased or decreased by twisting and/or removing the inner yellow coupler. ***(See Images 2-4).*** **Twist the base of the pedestal clockwise to raise height and counter clockwise to lower height**. The lowest height is 2 inches and highest height is 4-3/4 inches. When the Level.Up paver pedestal system is fully assembled with the Slope Leveler and Floating Foundation Base, the lowest height is 2-1/2 inches (when internal coupler is removed) and its highest height is 5-1/4 inches.

Pedestal at Lowest Height REMOVING Inner Yellow Coupler: 2 Inches

Image 2

Pedestal at Lowest Height WITH Inner Yellow Coupler: 2-1/2 Inches

Image 3

Pedestal at Full Height Expansion WITH Inner Yellow Coupler: 4-3/4 Inches

Image 4

MAXIMUM PEDESTAL SYSTEM HEIGHT

The maximum height of the Level.Up Paver Pedestal System, including all components and any accessories, is **NOT** to exceed 12 inches in height. This does not include the height of the surface paver material. *See Pages 5-6.*

2CM (3/4 INCH) THICK EXTERIOR PORCELAIN

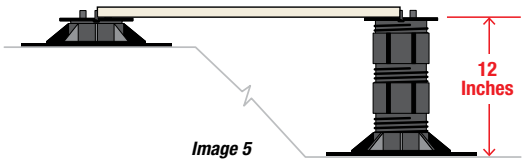


Image 5

12 Inch Max. Pedestal Height

Including all pedestal components and any accessories used. Does not include the height of the surface paver material.

4 INCH THICK CONCRETE PAVER

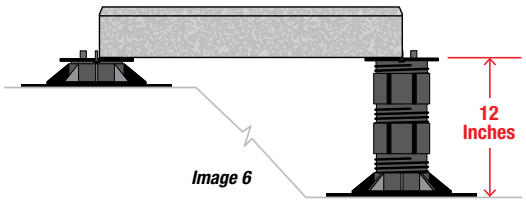


Image 6

12 Inch Max. Pedestal Height

Including all pedestal components and any accessories used. Does not include the height of the surface paver material.

4. LEVEL.UP ACCESSORIES FOR ADDITIONAL HEIGHT, LEVELING, SUPPORT OR EXPANSION

Determining the slope of the patio deck area is important to determine pedestal heights and if additional accessories may be required for height and leveling requirements. A Level.Up 4 Pedestal Expansion Kit is also available to add three pavers in any direction or provide support where needed. Please reference level-updecking.com or call 877-327-7378 for guidance on how to measure for slope and height. **The following accessories are available for individual purchase:**

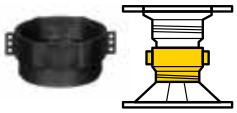


Image 7

1-1/2-INCH HEIGHT ADJUSTMENT COUPLER (LU-C1)

- Adds up to 1-1/2 inches to overall pedestal height
- Connects into the Level.Up Adjustable Pedestal (LU). Twist the top of the Adjustable Pedestal with the internal yellow coupler, counter clockwise to remove. Screw Height Coupler into the base of the pedestal and reattach the pedestal top & yellow coupler.
- Compatible with 4-inch Height Adjustment Coupler (LU-C4)
- Use up to **three (3)** per Pedestal (LU)

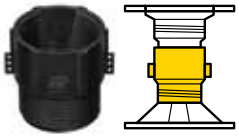


Image 8

4-INCH HEIGHT ADJUSTMENT COUPLER (LU-C4)

- Adds up to 4 inches to overall pedestal height
- Connects into the Level.Up Adjustable Pedestal (LU). Twist the top of the Adjustable Pedestal with the internal yellow coupler, counter clockwise to remove. Screw Height Coupler into the base of the pedestal and reattach the pedestal top & yellow coupler.
- Compatible with 1-1/2-inch Height Adjustment Coupler (LU-C1)
- Use up to **two (2)** per Pedestal (LU)

Image 9

SLOPE LEVELER (LU-SL)

- Compensates for slope to keep Pedestals vertical and finished patio deck elevation level
- Each Slope Leveler compensates for up to 1/4-inch per foot (2%) slope and adds 1/4-inch to the overall height of the pedestal
- Stack up to **four (4)** for up to 1-inch per foot (8%) slope correction

Image 10

FLEXIBLE SHIM (LU-B11)

- For minor leveling or height adjustments
- Adds 1/16 inch to overall pedestal height
- Can be placed on top of the pedestal or below the base
- Use in whole or segments
- Stack up to **two (2)** per Pedestal (LU)

Image 11

1/2-INCH FIXED HEIGHT PEDESTAL (LU-FH50)

- Replaces Adjustable Pedestal (LU) to provide low height support
- Raises paver 1/2 inch from ground
- Up to **four (4)** can be stacked for max height of 2 inches
- Each Pedestal supports up to 750 lbs.

Image 12

PAVER SAFETY BACKERS (LU-SB2424)

- Required when installing 2CM porcelain pavers
- Enhances paver impact resistance, provides additional paver support and breakthrough protection
- Lightweight galvanized steel
- Backer adheres to paver with polyurethane construction adhesive
- 24 inches wide x 24 inches long
- **MUST** be used when installing 2CM porcelain pavers

Image 13

LEVEL.UP 4 PEDESTAL EXPANSION KIT (LU-KIT-PAVER-4)

- Includes four (4) Adjustable Pedestals & Components
- Compatible with all accessories shown
- Allows for the installation of three (3) additional pavers or provides added support where needed

PEDESTAL HEIGHTS USING ACCESSORIES

Maximum Pedestal (LU) Expansion: 4-3/4 Inches

Image 14

Maximum Pedestal (LU) & 1-1/2-Inch Coupler (LU-C1) Expansion: 6-1/4 Inches

Image 15

Maximum Pedestal (LU) & 4-Inch Coupler (LU-C4) Expansion: 8-3/4 Inches

Image 16

Maximum Pedestal (LU) & Two 4-Inch Couplers (LU-C4) Expansion: 12 Inches

Image 17

Pedestal (LU) & Maximum Four Slope Levelers: 8% Slope

Image 18

Should additional height be required due to slope of terrain, installation may require the use of Height Adjustment Couplers or additional Slope Levelers. ONCE FULLY ASSEMBLED, THE TOTAL PEDESTAL HEIGHT, INCLUDING ACCESSORIES, CANNOT EXCEED 12 INCHES.

WORKING WITH FLEXIBLE SHIMS (LU-B11)

Placement Above Pedestal on Spacer Tab: Level.Up Flexible Shims (LU-B11) may be placed on top of Adjustable and Fixed Height Pedestals to accommodate for minor leveling of pavers with thickness variations. Use no more than two (2) Shims per pedestal. If using a partial segment of a Shim, always adhere the Shim to the pedestal with construction adhesive. *See Image 19.* **IMPORTANT: DO NOT adhere the Shim to the surface paver substrate.**

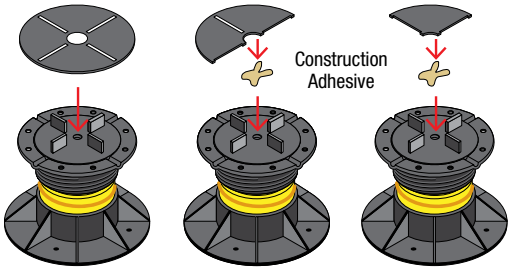
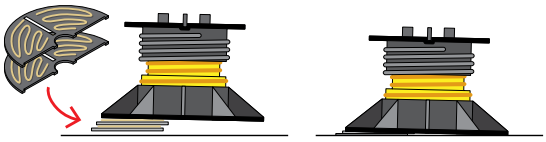


Image 19

Placement Under Pedestal Base: Place Flexible Shims, either whole or in segments, under the Adjustable or Fixed Height Pedestals in a stairstep fashion to compensate for sloping substrates. Use no more than two (2) Shims per pedestal. Adhere the Shims to each other and to the pedestal base with a construction adhesive. **IMPORTANT: DO NOT adhere the Shim or pedestal to the ground substrate.** *See Image 20.*



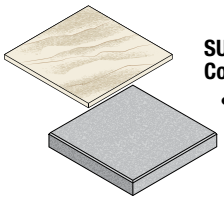
Adhere Shims to each other if using segments and to the pedestal base

Image 20

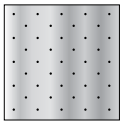
5. MATERIALS & TOOLS REQUIRED FOR PROPER INSTALLATION

In addition to the Bison Level.Up Adjustable Pedestal Paver Support Kit, the following materials and tools, **which are NOT sold with the Level.Up Pedestal Paver Kit**, will be required to construct the paver patio deck. Additional materials may be required if slope exceeds 2%, a perimeter containment wall(s) is required or a different design is required to meet desired outcome. Exact materials & tools needed depends on the size of the patio paver deck, build area & size and type of paver used. All pavers, tiles, and perimeter containment wall materials utilized **MUST** be rated for both exterior and ground contact use. It is up to the installer to independently verify that the surface material used (concrete, stone, porcelain, wood) provides the product strength, span rating, weight bearing capacity, proper PSF for standing surfaces, material compatibility and sustainability for the intended use.

MATERIALS



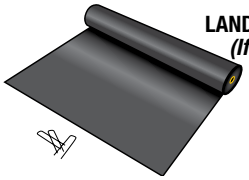
SURFACE MATERIALS (2CM Porcelain Pavers, Concrete Pavers, Wood Tiles)
- Rated for ground contact, outdoor use



LEVEL.UP PAVER SAFETY BACKER FOR EXTERIOR 2CM PORCELAIN PAVERS
- Required if installing exterior 2CM porcelain pavers

POLYURETHANE CONSTRUCTION ADHESIVE & APPLICATOR GUN
- For adhering Paver Safety Backer to exterior 2CM porcelain paver
- Appropriate sealant applicator gun for cartridges or sausage packs

PERIMETER CONTAINMENT WALL BUILDING MATERIALS ***(If not already in place)***

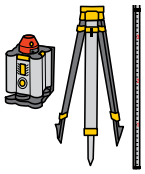


LANDSCAPE FABRIC & STAKES
(If installing over compact soil)

GRAVEL OR STONE
(If installing over compact soil)

TOOLS

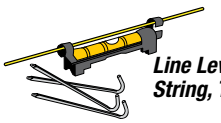
The following tools are recommended for proper patio deck construction



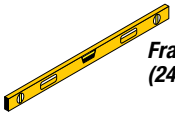
Laser Level Device (for marking perimeter)

Chalk Line

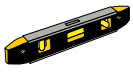
Tape Measure (25-30 ft)



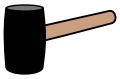
Line Level, 30 ft String, Tent Stakes



Framing Level (24 Inches)

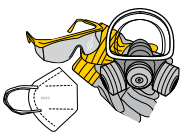


Torpedo Level

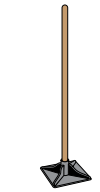


Rubber Mallet

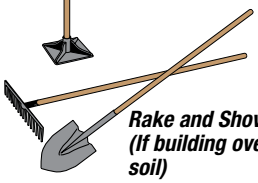
Utility Knife



PPE: Safety Glasses, Work Gloves, Respiratory Protection



Tamper (if building over soil)

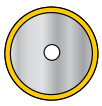


Rake and Shovel (If building over soil)

Drill & Drill Bits (if installing wood tiles)

Optional If Cutting Exterior 2CM Porcelain Paver:

Tile Saw



Cutting Blade (diamond etched or porcelain/ceramic blade)

Sheet Metal Shear

Cold Galvanizing Spray or Primer

Metal File

6. PAVER MATERIAL SELECTION & PATIO DESIGN

Choose the desired paver surface material. Bison Level.Up Paver Pedestals are for use with exterior 2CM porcelain paver, concrete paver or wood tile surface materials. All materials **MUST** be rated for exterior, ground contact use. It is up to the installer to independently verify that the surface material used (concrete, stone, porcelain, wood) provides the product strength, span rating, weight bearing capacity, proper PSF for standing surfaces, material compatibility and suitability for the intended use.

Installation requirements vary for each individual project site. Surface paver used, pattern, grid layout, starting point, and finished elevation should be determined prior to starting to build. Plan the paver layout pattern in advance. Ensure that the sufficient number of pavers, pedestals and accessories needed based on the patio deck size and layout are purchased prior to beginning work..

DO NOT overload the Level.Up Paver Pedestals with excessive weight. Each Level.Up Paver Pedestal is rated to a 750 lbs. weight bearing capacity. Heavy features or fixtures exceeding 350 lbs. (Examples include but are not limited to hot tubs, water fixtures, concrete statues) **WILL** require additional substructure materials and pedestal support.

Installation or anticipated installation of additional items on top of the paver patio deck such as planters, hot tubs, sculptures, grills, etc **MUST BE** supported directly by additional pedestals that are in addition to the main paver patio deck pedestal system. Failure to adequately support the additional weight of any such features or items may cause total patio deck failure and/or collapse, which could result in property damage, serious injury, and/or death.

Depending on the desired height and placement of the paver patio deck, verify if a step or "step down" fixture is required with the design. **ALWAYS** check with local municipalities and ordances

DO NOT attach pergolas to the Level.Up patio deck. Please call 877-327-7378 for additional guidance in designing the patio deck.

7. BEFORE BUILDING: USING & INSTALLING PAVER SAFETY BACKERS FOR EXTERIOR 2CM PORCELAIN PAVERS

WHEN TO USE THE LEVEL.UP PAVER SAFETY BACKER (LU-SB2424):

THE LEVEL.UP PAVER SAFETY BACKER (SEE IMAGE 21) MUST BE USED WHEN INSTALLING EXTERIOR 2CM PORCELAIN PAVERS THAT ARE APPROXIMATELY 3/4 INCH OR 2CM THICK. It is designed for use when exterior 2CM porcelain pavers are installed on the Bison Level.Up Adjustable Pedestals for Paver Support. The Paver Safety Backer offers a simple and lightweight paver backing to enhance the impact resistance of the paver, provides additional paver support and provides protection in the event of paver breakage. The Paver Safety Backer is NOT intended to be a reusable product and must be replaced with a new surface paver. Make the necessary replacements as needed throughout the life of the paver patio deck.

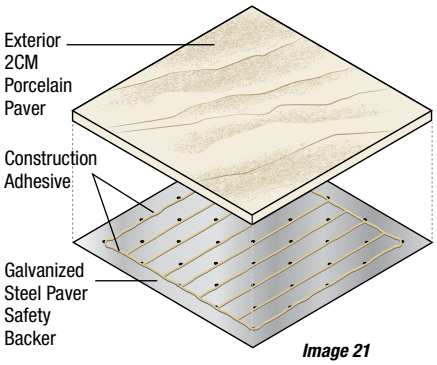


Image 21

PAVER SAFETY BACKER SPECIFICATIONS:

The Level.Up Paver Safety Backer measures 23.35 inches long x 23.35 inches wide x 0.02 inches thick (593 mm long x 593 mm wide x 0.6 mm thick). It is compatible with square paver tiles measuring 593-601 mm long x 593-601 mm wide.

It is made of G90 galvanized steel which provides resistance to, but will not completely prevent corrosion. Any cut edges should be sealed with primer or cold galvanizing spray to readminister the galvanizing layer.

- **Level.Up Paver Safety Backers should NOT be installed fully submerged in any type of water.** Accelerated corrosion can occur when Level.Up Paver Safety Backers are used in tidal areas or in direct contact with highly chlorinated or salt water which reduces the normal lifespan of the product.
- The Level.Up Paver Safety Backer does **NOT** provide wind uplift resistance.
- It will **NOT** prevent any surface material from cracking, chipping or breaking.
- It is up to the installer to independently verify that the surface material used (concrete, stone, porcelain, wood) provides the product strength, span rating, weight bearing capacity, material compatibility and suitability for the intended use.

HOW TO INSTALL PAVER SAFETY BACKERS:

WARNING! WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (PPE) INCLUDING SAFETY GOGGLES, MASKS FOR RESPIRATORY PROTECTION AND GLOVES. ENSURE THE WORK AREA IS WELL-VENTILATED AND HAS A WAY TO MANAGE WATER RUN-OFF FROM WET CUTTING. AVOID WEARING LOOSE CLOTHING, JEWELRY AND TIE HAIR BACK TO PREVENT ACCIDENTS. FOLLOW POWER TOOL MANUFACTURERS' INSTRUCTIONS FOR SAFE USE AND HANDLING. ALWAYS WET CUT PAVERS TO MINIMIZE DUST. BE CAUTIOUS OF POTENTIAL KICKBACK WHEN CUTTING ESPECIALLY WITH LARGE OR HEAVY PAVERS.

The Level.Up Paver Safety Backers are adhered to the back of the surface pavers using a polyurethane construction adhesive. The Paver Safety Backers should be adhered to the pavers **on the building site location and before installation on the pedestal systems**. Before applying the adhesive, please thoroughly read and follow the adhesive manufacturer's instructions for use and handling, safety and storage.

RECOMMENDED ADHESIVE & COVERAGE:

A one-component, moisture-curing polyurethane construction adhesive is recommended for adhering the Paver Safety Backer to the paver. It should provide strong adhesion to adhere dissimilar substrates.

Using a 1/8 inch diameter bead and applying in the configuration indicated *(see Image 22)*, the following coverage should be achieved per adhesive size:

- One 310 mL cartridge adheres six (6x) 24 inch x 24 inch pavers & Paver Safety Backers
- One 600 mL sausage adheres twelve (12x) 24 inch x 24 inch pavers & Paver Safety Backers

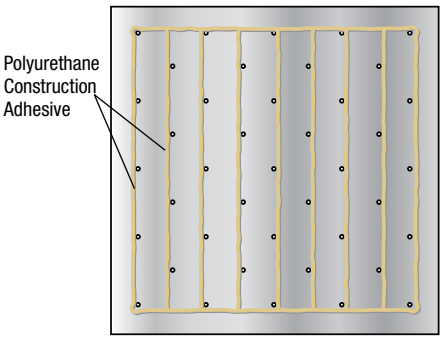


Image 22

ADHERING A 2CM PAVER TO THE PAVER SAFETY BACKER PRIOR TO INSTALLATION

***IMPORTANT:* For proper adhesion and performance, the adhesive MUST be applied EXACTLY as shown in Image 22. During assembly, limit exposure to standing moisture, direct sunlight, and temperatures outside of 40°F to 100°F (5°C to 37°C). Wear work gloves and safety goggles when handling Paver Safety Backers. Paver Safety Backers should be adhered to the pavers on the build site.**

1. Set up four Adjustable Pedestals with Spacer Tabs (LU-ST) or Fixed Height Pedestals (LU-FH50) to use as a base to stack the 2CM pavers and Paver Safety Backers while they cure.
2. Place the first 2CM paver with the **finish side face down** over the four pedestals as shown in ***Image 23***.
3. Insert the adhesive cartridge or sausage into the appropriate caulk gun or sausage applicator. Cut the nozzle to a 1/8 inch diameter bead size. Break foil seal if necessary.
4. Run a 1/8 inch diameter bead of adhesive, offset 1/4 inch from the holes in the Paver Safety Backer, as shown in the pattern below in ***Image 24***. To prevent moisture from entering between the paver tile and the Paver Safety Backer, a continuous perimeter bead of adhesive must be applied along the edge of the Paver Safety Backer. ***See Image 22***.
5. Place the adhesive side of the Paver Safety Backer squarely onto the paver, carefully aligning by hand to make sure that the Paver Safety Backer does not extend beyond any edge of the paver. ***See Image 25***.
6. Apply pressure to the Paver Safety Backer and wipe away any excess adhesive that may have seeped through the holes or beyond the edge of the Paver Safety Backer.

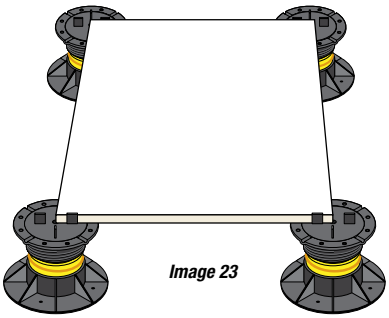


Image 23

7. Repeating Steps 4-6, gently stack the pavers **Paver Safety Backer to Paver Safety Backer in pairs**, rotating as shown in ***Image 26***. Stack no more than ten (10x) pavers high, and let them set for the adhesive manufacturer's recommended cure time (approximately 2 to 4 hours), before handling and installing.

PRO TIP: *Pull pavers from different boxes and/or pallets to achieve an even color distribution.*

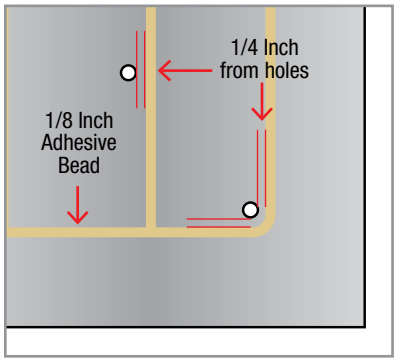


Image 24

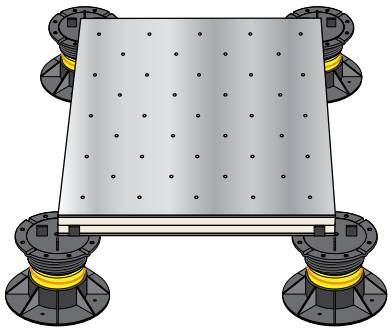


Image 25

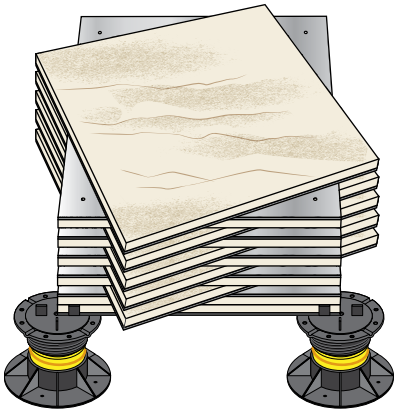


Image 26

CUTTING 2CM PAVERS & PAVER SAFETY BACKERS:

WARNING! WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (PPE) INCLUDING SAFETY GOGGLES, MASKS FOR RESPIRATORY PROTECTION AND GLOVES. ENSURE THE WORK AREA IS WELL-VENTILATED AND HAS A WAY TO MANAGE WATER RUN-OFF FROM WET CUTTING. AVOID WEARING LOOSE CLOTHING, JEWELRY AND TIE HAIR BACK TO PREVENT ACCIDENTS. FOLLOW POWER TOOL MANUFACTURERS' INSTRUCTIONS FOR SAFE USE AND HANDLING. ALWAYS WET CUT PAVERS TO MINIMIZE DUST. BE CAUTIOUS OF POTENTIAL KICKBACK WHEN CUTTING ESPECIALLY WITH LARGE OR HEAVY PAVERS.

The Level.Up Paver Safety Backers and 2CM pavers may be cut pre- or post-assembly. It is important to select the appropriate tools and blades before cutting the Paver Safety Backer and paver materials.

- For extended lifespan of the cutting blade, consider using a diamond etched porcelain/ceramic blade for cutting 2CM porcelain pavers. When cutting the Paver Safety Backers, use either a jigsaw or steel cutting abrasive wheel. If cutting the Paver Safety Backer before adhering to the paver, a sheet metal shear may be used.
- If cuts are to be radial or curved, score the 2CM paver along the desired cut line, and then cut through with a smaller diameter circular blade. Scoring the paver (by itself or adhered to the Paver Safety Backer) before cutting helps to prevent fracturing. Consider creating incremental relief cuts up to the score line if the curve causes too much stress for the blade.

IF CUTTING THE PAVER BEFORE ADHERING TO THE PAVER SAFETY BACKER:

- Measure and cut the paver along the desired cut line.
- Place the cut paver atop the Paver Safety Backer, aligning finish paver sides with the finish sides of the Paver Safety Backer. Trace the cut line onto the Paver Safety Backer and then proceed to cut the Paver Safety Backer by itself.
- Once cut to the desired shape size, use a metal file or angle grinder to smooth any sharp edges or burrs created along the cut line. **CAUTION: Do not run your fingers along the cut line or any visible burrs. Lacerations, cuts or other injuries can occur when cutting or working with metals.**
- ***IMPORTANT: Follow the recommended assembly instructions in this Installation Guide on how to adhere the cut Paver Safety Backer to the cut paver including the adhesive perimeter seal between the Paver Safety Backer and the paver. Remove any surface debris, and if using a wet cutting technique, dry materials prior to using the adhesive.***

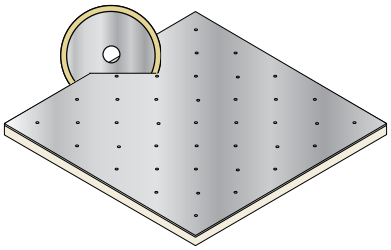


Image 27

IF CUTTING THE PAVER AFTER ADHERING TO THE PAVER SAFETY BACKER:

- Measure and cut the Paver Safety Backer and paver along the desired cut line. ***See Image 27***.
- Once cut to the desired shape and size, use a metal file or angle grinder to smooth any sharp edges or burrs created along the cut line. **CAUTION: Do not run your fingers along the cut line or any visible burrs. Lacerations, cuts or other injuries can occur when cutting or working with metals.**
- Use a small amount of cleaner to remove any adhesive from the paver or saw blade, if needed. Wash with a clean rag and mild soap to remove any slippery residue.
- ***IMPORTANT: It is necessary to apply a bead of adhesive along any cut edges to maintain a continuous perimeter seal between the Paver Safety Backer and the paver. Remove any surface debris, and if using a wet cutting technique, dry materials prior to using the adhesive.***

- Paint cut edges of the Paver Safety Backer with primer or cold galvanizing spray to re-administer galvanizing layer removed by cutting (exposure to heat, grinding, and/or water) to prevent rust damage.

8. BEFORE BUILDING: PERIMETER CONTAINMENT WALL INSTALLATION & PREPARING THE BUILD SITE SURFACE

WARNING: ALWAYS MAKE SURE THE PATIO DECK BUILD SITE IS PROPERLY PREPARED BEFORE BEGINNING ANY WORK OR CONSTRUCTION.

- **VERIFY THAT THE CHOSEN PATIO DECK BUILD AREA DOES NOT EXCEED THE MAXIMUM GROUND SLOPE PARAMETERS OF 8% SLOPE IN ANY GIVEN AREA**
- **VERIFY THAT THE BUILD AREA IS NOT PRONE TO SOIL EROSION OR MOVEMENT AND PROVIDES POSITIVE DRAINAGE AND DOES NOT HAVE STANDING WATER.**
- **THERE MUST BE A CONTAINMENT STRUCTURE ON ALL SIDES TO ENCLOSE THE PATIO DECK AND PREVENT LATERAL MOVEMENT OF THE PEDESTALS & PAVERS (THE PERIMETER CONTAINMENT WALL CAN BE BUILT BEFORE OR AFTER PAVER INSTALLATION).**

PERIMETER CONTAINMENT WALL

- The perimeter of the elevated paver patio deck **MUST** be contained on **ALL** sides by a perimeter containment wall to provide restraint and prevent lateral movement of the pavers and pedestals. ***See Image 28.***
- Use standard building and engineering practices when constructing the perimeter containment wall. Consult with a construction or building professional for proper installation and construction practices to the extent that is necessary.
- **ALWAYS** check all local zoning laws, municipalities, codes and Homeowners Association (HOA) regulations before beginning any work.
- The perimeter containment wall can be installed **before or after** the paver patio deck installation, if it is not already in place.
- Ensure that the ground is stable and not at risk for erosion. Sufficient drainage must be utilized so that the paver patio deck is not at risk for having standing water build up inside of the perimeter wall, at risk for movement or becoming unlevel at any point.
- The height of the perimeter containment wall **MUST** be, at a minimum, flush with the top of the paver surface material, or higher.
- No movement of the pavers should be allowed at the perimeter of the patio deck system greater than one tab width or 3/16 inch.

Image 28

- When building a perimeter containment wall using concrete, it **MUST** have a minimum compressive strength of 2500 PSI.
- When building a perimeter containment wall using lumber, it **MUST** be approved for exterior and ground-contact use.
- Examples of perimeter containment wall construction includes, but are not limited to the following. The perimeter containment wall can consist of a combination of different structures.
  - Sides of house or structure
  - Brick or concrete masonry block
  - Railroad ties and metal stakes
  - Pouring a concrete curb
  - A wall structurally fastened together to create a solid containment

After construction is completed, check both the paver patio deck and perimeter containment wall and throughout the life of the patio paver deck, to ensure that there has been no movement and that the perimeter containment wall is stable and structurally sound. Make the necessary repairs or replacements as needed throughout the life of the paver patio deck.

Recommendations for the following perimeter containment wall structures are as follows:

1. **IF BUILDING A FOUR-SIDED PERIMETER CONTAINMENT WALL WITH WOOD OR MASONRY: ALL** four corners and the **ENTIRE** structure **MUST** be fastened together with either mechanical or chemical fasteners approved for that material (with a minimum of 3000 PSI strength). Steel spikes anchored into the ground every four feet and at both ends to help prevent any movement are recommended, but not required. The steel spikes should be ½ inch diameter at minimum. The distance the spikes **MUST** be driven down into the ground is 1.5X the height of the perimeter containment wall. *(Example: If the perimeter containment wall is 10 inches high, the spike needs to be driven 15 inches into the ground, therefore a 25 inch long spike is needed).*
2. **IF BUILDING A THREE-SIDED PERIMETER CONTAINMENT WALL WITH WOOD OR MASONRY: ALL** corners and the **ENTIRE** structure **MUST** be fastened together with either mechanical or chemical fasteners approved for that material (with a minimum of 3000 PSI strength). Steel spikes anchored into the ground every four feet and at both ends to help prevent any movement are recommended, but not required. The steel spikes should be ½ inch diameter minimum. The distance the spikes **MUST** be driven down into the ground is 1.5X the height of the perimeter containment wall. *(Example: If the perimeter containment wall is 10 inches high, the spike needs to be driven 15 inches into the ground, therefore a 25 inch long spike is needed).*
3. **IF BUILDING A TWO-SIDED PERIMETER CONTAINMENT WALL WITH WOOD OR MASONRY:** The **ENTIRE** perimeter containment wall **MUST** be fastened together with either mechanical or chemical fasteners approved for that material (with a minimum of 3000 PSI). The two-sided perimeter containment wall either needs to be fastened to the permanent structure it is butting up to, or anchored into the ground with steel spikes every four feet and at both ends to prevent any movement. The steel spikes should be ½ inch diameter at minimum. The distance the spikes **MUST** be driven down into the ground is 1.5X the height of the perimeter containment wall. *(Example: If the perimeter containment wall is 10 inches high, the spike needs to be driven 15 inches into the ground, therefore a 25 inch long spike is needed).*
4. **IF BUILDING A SINGLE-SIDED PERIMETER CONTAINMENT WALL:** The **ENTIRE** perimeter containment wall **MUST** be fastened together with either mechanical or chemical fasteners approved for that material (with a minimum of 3000 PSI). The perimeter containment wall either needs to be fastened to the permanent structure it is butting up to, or anchored into the ground with steel spikes every four feet and at both ends to prevent any movement. The steel spikes should be ½ inch diameter at minimum. The distance the spikes **MUST** be driven down into the ground is 1.5X the height of the perimeter containment wall. *(Example: If the perimeter containment wall is 10 inches high, the spike needs to be driven 15 inches into the ground, therefore a 25 inch long spike is needed).*

BUILDING OVER A SOLID SURFACE: CONCRETE, EXISTING PAVERS

1. When installing Level.Up Adjustable Paver Pedestals over existing hard surfaces such as concrete slabs or pavers, make sure the area provides positive drainage, does not have standing water, and is not prone to soil erosion or movement of the surface area.
2. Remove furniture, grills and other items from the area. Sweep away any dirt and debris.
3. Check for large cracks or breaks in the surface area that could cause the pedestals to set unevenly. Fix the cracks with the appropriate crack filling compound. Allow it to fully cure before installing pedestals. Follow the repair compound manufacturer's instructions for proper application and dry times.
4. Build a perimeter containment wall if necessary to ensure that there is a containment structure on **ALL sides** to enclose the patio deck and prevent lateral movement of the pedestals.
5. Perimeter containment wall height needs to be a **minimum flush or higher** than the finished elevated patio deck height (top of paver).
6. Ensure that the ground slope does not drop more than 1 inch per foot (8%) in any build area or the ground surface will need to be adjusted to reduce the slope.

BUILDING OVER SOIL

1. When installing Level.Up Adjustable Paver Pedestals over existing grass, organic material, compacted dirt and/or gravel, make sure the area provides positive drainage, does not have standing water, and is not prone to soil erosion or movement of the surface area.
2. Remove furniture, grills and other items from the area. Remove any debris.
3. Mark the perimeter of the desired patio deck width and length. You can use stakes and string if desired.
4. Determine the entry point of the patio deck does not drop more than 1 inch per foot (8%). This will typically be the highest point of the ground/slope.
5. Utilize the 3-4-5 Method ***(See Image 28)*** to verify that the patio deck area is square. Measure 3 feet out from the outside corner and make a mark. From the same outside corner, measure 4 feet out and make a mark. Measure from the 3 ft and 4 ft mark and that should be 5 ft. Adjust as needed to make square.
6. Within the desired patio deck perimeter, remove any grass, vegetation, mulch, large rocks or debris. Rake the area so the surface has no visible uneven depressions. Be careful not to damage any sprinkler lines or other equipment. Call local utility providers before digging or removing any soil. Add additional dirt, pea gravel, or sand to any areas which could make it difficult for a pedestal base to make complete contact with the surface. Compact the soil by tampering to even out the surface area.
7. Level the ground as much as possible. Ensure that the ground slope does not drop more than 1 inch per foot (8%) in any build area or the ground will need to be adjusted to reduce the slope.
8. Once the area is clear, verify that the soil and/or gravel area is well-compacted, has positive drainage and is free from soil erosion. It is recommended, but not required, to cover the area with weed barrier/ landscape fabric to prevent unwanted growth.

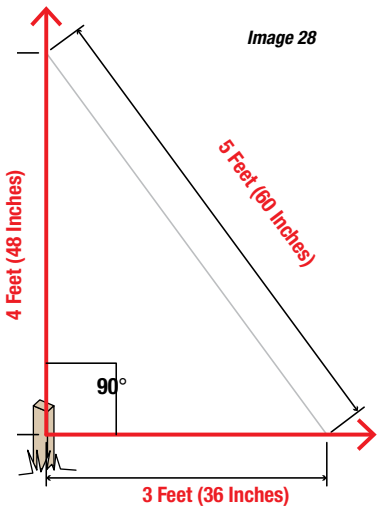


Image 28

9. If additional drainage is required and there is not a risk of soil erosion, add 2 to 3 inches of height to the desired area with gravel or loose stone and tamp down to be sure it is well-compacted. If a retaining wall is required to hold the gravel or stone in place, be sure to use ground-contact materials and follow all local ordinance or HOA guidelines.
10. Build a perimeter containment wall if necessary to ensure that there is a containment structure on **ALL sides** to enclose the patio deck and prevent lateral movement of the pedestals.
11. Perimeter containment wall height needs to be **flush or higher** than the finished elevated patio deck height (top of paver).

SLOPE % & EQUIVALENT NUMBER SLOPE LEVELERS

SLOPE %		# Slope Levelers (LU-SL)	Compensation Up To:
<2% Slope	=	1-2 Flexible Shims	1/8 inch
2% Slope	=	1 Slope Leveler	1/4 inch
2.1% - 4% Slope	=	2 Slope Levelers	1/2 inch
4.1% - 6% Slope	=	3 Slope Levelers	3/4 inch
6.1% - 8% Slope	=	4 Slope Levelers	1 inch
8%+ Slope	=	Adjust Ground	

Chart 1

Remember, the total maximum pedestal height is 12 inches, including all components and accessories.

Pedestal (LU) only height ranges:		Pedestal (LU) height with all components (ST, SL, FFB) ranges:	
LU	2 to 4-3/4 inches	LU + ST + SL + FFB	2-1/2 to 5-1/4 inches
LU + C1	4-3/4 to 6-1/4 inches	LU + ST + SL + FFB + C1	5-1/4 to 6-3/4 inches
LU + C4	6-1/4 to 8-3/4 inches	LU + ST + SL + FFB + C4	6-3/4 to 9-1/4 inches
LU + C4 + C4	8-3/4 to 12 inches	LU + ST + SL + FFB + C4 + C4	9-1/4 to 12 inches

Chart 2

9. BEFORE BUILDING: GRID LAYOUT & DETERMINING PEDESTAL HEIGHTS

- Installation requirements vary for each individual project site. Patio deck paver or tile used, pattern, grid layout, starting point, and finished elevation should be determined prior to starting to build.
- Plan the paver layout pattern in advance, according to your containment area, taking in to account paver dimensions and spacer tab width (3/16 inch).
- Ensure that the sufficient number of pavers, pedestals and accessories needed based on the patio deck size and layout are purchased prior to beginning work.
- Installation or anticipated installation of additional items on top of the paver patio deck such as planters, hot tubs, sculptures, grills, etc **MUST** be supported directly by additional pedestals that are in addition to the main patio deck pedestal system. Failure to adequately support the additional weight of any such features or items may cause significant damage to the patio deck.

- **Start by taking measurements at the highest point of the patio deck build area and thresholds.** If building near your house, the ground surface typically slopes away from the house at a 2% slope. The maximum slope allowed in any build area is 8% for the Level.Up pedestal system. If there is greater than 8% slope in any given area, the ground surface will need to be adjusted to reduce slope.
- **Determine what the finished height of the paver patio deck will be (from the ground surface to the top of the surface paver).**
- Take into account thresholds from doors leading out to the patio deck. Make sure that the finished paver patio deck is **not higher** than the threshold.
- **Subtract the thickness of the paver material from the finished patio deck height to determine the height of the pedestal.**
- **Mark the top of the pedestal elevation around the containment wall using a string, chalk line or laser leveling device.** *(Image 29)*
- **Precise measurements should be taken and the patio paver deck area should be accurately defined. Mark off and square up all outside edges with control lines using snapped chalk lines. Mark two (2) lines that are perpendicular to each other across the patio paver deck area. Continue to mark a grid of lines in both directions to mark the location of each paver and pedestal. Use the control lines as references to periodically check and assure a square layout during installation.**

PAVER PLACEMENT GRID LINES

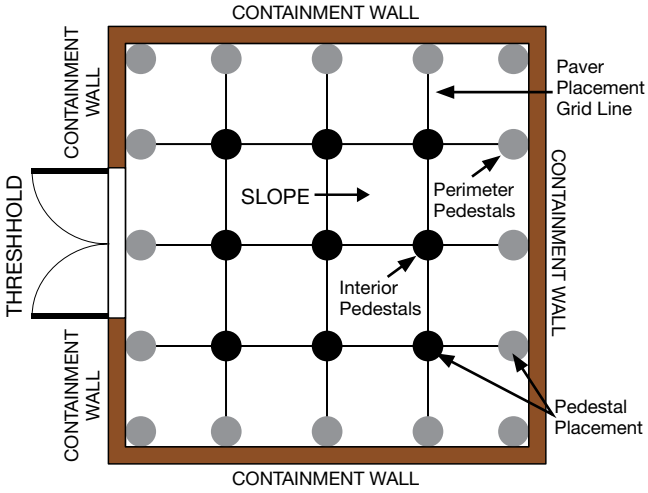


Image 29

10. BUILDING THE LEVEL.UP PAVER PEDESTAL DECK

STEP 1 ASSEMBLING THE PEDESTAL SYSTEMS

- Assemble the pedestal systems according to Section 3. Set the pedestals to the **Top of Pedestal Elevation Height** determined in Section 9 and marked around the perimeter of the build area with the chalk line or string. ***(Image 29)***
- Each paver must be supported by a pedestal in all four corners. One pedestal will support four paver corners. Additional pedestals may be necessary depending on the size of the paver and the patio deck layout.
- See Step 4 for how to install smaller, cut paver pieces. On larger patio decks, it is recommended that the Pedestal System be pre-assembled and pre-set to the proper heights and placed in position prior to the installation of the surface pavers.

STEP 2 SETTING THE PEDESTAL SYSTEMS

- Using the chalk grid marked on the building surface area as a guide (Section 9), place assembled pedestals around the perimeter and at the key grid intersections ***(Image 30)***.
- Use a level to check for correct height and level. Adjust pedestal height as needed by twisting clockwise to raise and counter clockwise to lower the actual pedestal (LU) ***(Image 31)***.
- Do **NOT** over-extend the Level.Up Paver Pedestals (LU). Adjustable Pedestals (LU) and their couplers have raised engagement bumps that will be felt and heard when unscrewed to the maximum height. Do **NOT** force or unscrew further when these engagements are detected. Pedestals are tested to a maxiumum height of 12 inches, including accessories. Going beyond this height or beyond the engagement bumps on any individual connection may compromise the weight-bearing capacity and structural integrity of pedestal causing failure.
- Pedestals should be leveled in each succeeding row as the installation proceeds.
- Use Height Adjustment Couplers if additional pedestal height is needed. Correct slope by adjusting the Slope Leveler(s) or adding additional Slope Levelers or Flexible Shims as needed to achieve a level pedestal and maintain a level patio deck surface over a sloping substrate ***(Image 32)***.

Image 30

- For low cavity heights where an Adjustable Pedestal (LU) is too high, use the Fixed Height Pedestals (FH-50) and Flexible Shims to accommodate variations in height.
- Pavers **MUST NOT** be spaced more than 3/16 inch (4.5 mm) from the perimeter containment wall, structure or threshold.

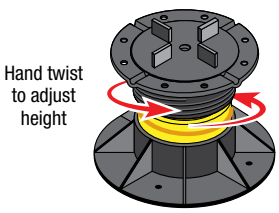
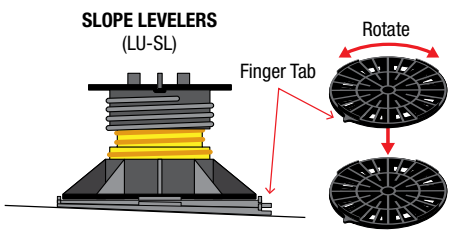
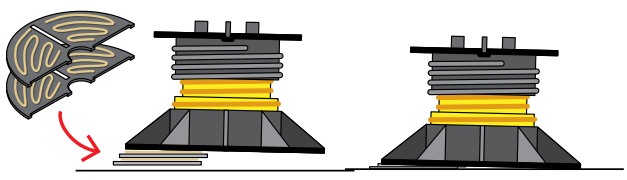


Image 31





Adhere Shims in place with construction adhesive below pedestal base

Image 32

STEP 3 LAYING PAVERS

- Start by setting the first row of pavers following the design grid. It is recommended to start near the threshold/entry point and with the inside pavers first. If using 2CM porcelain pavers, ensure that the Paver Safety Backers have been properly adhered and that the adhesive is fully cured. ***(Image 33-34)***
- Place the first paver on four pedestals. Ensure there is contact with the top of the pedestals on all four corners. Rotate the Spacer Tab (LU-ST) as needed to align with the paver.
- Ensure that the paver is at the desired finished patio deck height. Twist or lower the pedestal height as needed or add additional Height Adjustment Couplers if needed.
- Use a level to check that the paver is level. Make adjustments as needed to the Slope Leveler(s) or add additional leveling accessories (Slope Levelers & Flexible Shims) if needed to ensure a level surface.
- Place the second paver next to the first paver. Using a level, check for level and height using the first paver as a guide and make height and slope adjustments as needed.
- As the pedestals are loaded with the pavers, fine vertical height and slope adjustments can be made by twisting the pedestal to raise or lower or adding additional Flexible Shims and Slope Levelers.
- Exterior 2CM Porcelain and Concrete Pavers can have variances in thicknesses. You may also use the Flexible Shims to help ensure that the pavers are flush.
- Always maintain adequate thread engagement of the pedestal and don't over-extend the pedestals.
- Continue laying pavers on pedestals.
- It is recommended to use the "T" method of installation ***(Image 33)***. Install the "T" shaped portion of the patio deck starting from threshold or high point. Install pavers on both sides of the "T". After the "T" is installed, verify that you have a right angle.
- Inspect the paver patio deck after completion. Make sure that all pedestals are not overtended and are properly supporting the pavers. Check to make sure that the patio deck is level and stable before using. Verify that all pavers are properly installed with the correct number of pedestals and with Safety Backers (if using 2CM porcelain tiles).
- **For help with complex designs, please call 877-327-7378.**

Image 33

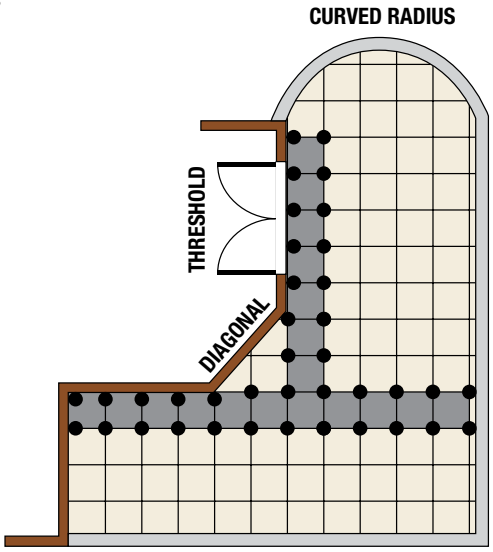


Image 34

STEP 4 INSTALLING SMALLER PAVER PIECES & PERIMETER PAVERS

WARNING! WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (PPE) INCLUDING SAFETY GOGGLES, MASKS FOR RESPIRATORY PROTECTION AND GLOVES. ENSURE THE WORK AREA IS WELL-VENTILATED AND HAS A WAY TO MANAGE WATER RUN-OFF FROM WET CUTTING. AVOID WEARING LOOSE CLOTHING , JEWELRY AND TIE HAIR BACK TO PREVENT ACCIDENTS. FOLLOW POWER TOOL MANUFACTURER'S INSTRUCTIONS FOR SAFE USE AND HANDLING. ALWAYS WET CUT PAVERS TO MINIMIZE DUST. BE CAUTIOUS OF POTENTIAL KICKBACK WHEN CUTTING ESPECIALLY WITH LARGE OR HEAVY PAVERS.

PERIMETER /THRESHOLD/CURVED RADIUS/DIAGONAL PLACEMENT

- Pavers must not be spaced more than 3/16 inch (4.5 mm) from the perimeter containment wall, structure or threshold. There should not be room around the perimeter of the patio deck in excess of 3/16 inch (4.5 mm) width which would allow for lateral movement of the pavers and create an unsafe condition.
- A pedestal system must be placed where each measured grid line meets the perimeter. Remove two (2) spacer tabs in line with one another atop each pedestal system placed around the perimeter. Remove all four (4) spacer tabs at corners.
- Adjust each pedestal height to the **"Top of Pedestal Elevation"** marked on the perimeter. Position the pedestal as close to the edge of the perimeter as possible, with the two remaining spacer tabs aligned with the grid line.
- Use extra pedestals under small cut pieces for additional support.
- If using small cut pieces of pavers, adhere the small pavers to the top of the pedestal with construction adhesive. Remove the Spacer Tabs as necessary for perimeter pedestals.

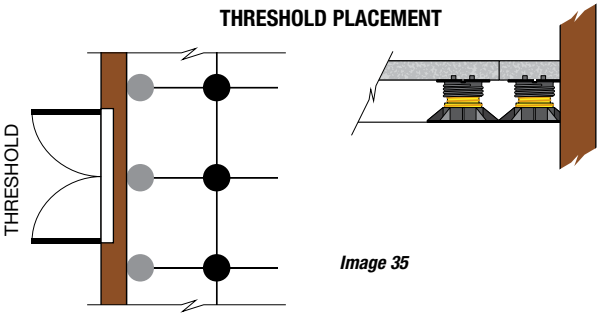


Image 35

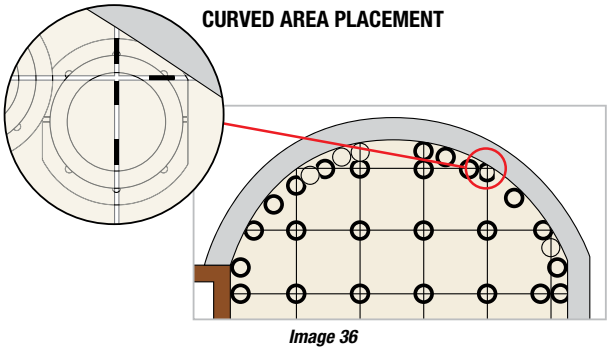


Image 36

- Adhere tabs into place with construction adhesive to maintain spacing between pavers when normal tab placement is not possible.
- If making a cut, at any point the cut can never exceed 2 feet on center. Pedestals cannot span 2 feet beyond center. Additional pedestals will need to be added. If pavers are cut at a 45 degree angle, four pedestals are still required to support the material to avoid tipping.

WARNING: Lacerations, cuts or other injuries can occur when cutting or working with metals. Do NOT run your fingers along the cut line or over any visible burrs.

PRO TIP: *In tighter spaces, you may flip the pedestal upside down (without the Spacer Tabs) to provide a surface area to rest the pavers.*

DIAGONAL PLACEMENT

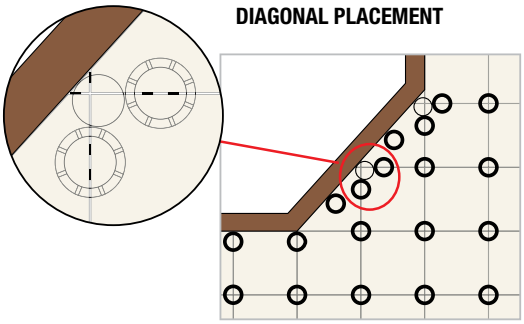


Image 37

11. PAVER PATIO DECK MAINTENANCE REQUIREMENTS

Routine maintenance of the paver patio deck and Level.Up Paver Pedestal System is **REQUIRED** to enhance the beauty, reduce major repairs and prolong the life of the paver patio deck. Below is a list of maintenance guidelines that should be performed basis (annually and throughout the life of the paver patio deck)::

- Periodically check for ground erosion, pedestal sinking and integrity. Adjust as needed.
- Check for pavers that rock. If you notice pavers rocking back and forth while walking on the patio deck, simply lift the paver up and shim one or more corners until the paver is level on all four corners. Level.Up Flexible Shims (LU-B11) can be used for this purpose.
- Depending on ground substrate materials, some settling may occur. Remove the paver and adjust the pedestal until a level height is achieved. This may need to be done to more than one pedestal to level out a specific area.
- Clean any drains below or near the paver deck on regular basis. Water should completely drain off the patio within 48 hours after a rainfall under ambient drying conditions. Standing or pooling water can be detrimental.
- Periodically check the Spacer Tabs between the pavers. Replace any broken Spacer Tabs immediately. Loss of Spacer Tabs could create unsafe patio movement.
- There should be no more than a 3/16 inch (4.5 mm) gap between pavers at any perimeter edge.The patio deck should **NOT** exhibit any lateral movement which could create an unsafe condition.
- Particular attention should be made to assure that all pedestrian entry or access points to the patio deck are level and that the patio deck surface pavers are not randomly raised or uneven creating a tripping or safety hazard.
- To avoid further damage or injury, immediately replace any cracked, chipped or broken surface pavers and the accompanying Level.Up Paver Safety Backer (if used) with new pavers and Paver Safety Backers (if used). The Paver Safety Backer is **NOT** intended to be a reusable product and **MUST** be replaced with a new surface paver.
- Follow the surface material manufacturer's recommendations for cleaning and maintenance of the surface pavers.
- When cleaning the paver patio deck, chlorine and standard soaps are safe to use on and around the pedestal system. Chemicals, such as gasoline or turpentine, should not be stored or used in the vicinity of the pedestal system. If spilled, such products could cause damage to the pedestals and accessories.

After construction is completed, check both the paver patio deck and perimeter containment wall periodically throughout the year to ensure that there has been no movement and that the perimeter containment wall is stable and structurally sound. Make the necessary repairs or replacements as needed and throughout the life of the paver patio deck.

12. CUSTOMER SUPPORT INFORMATION

Questions & Usage Information:
Call 877-327-7378 or visit **www.LEVEL-UPDECKING.com**.

Order Information:
Call 877-327-7378 or email: orders@dap.com
Fax number 410-558-1068

Manufacturer:
Bison Innovative Products; 701 Osage Street, Unit 120, Denver, CO, 80204

Distribution of Product:
DAP Global Inc.; 2400 Boston Street, Suite 200, Baltimore, MD 21224