Aspire

The Sustainable Paver Solution with the Patented Grid System

Installation Guidelines & Instructions

Aspire

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Important: Read this Section Before Your Start

Excessive Heat Warning

Be aware of excessive heat on the surface of Aspire products from external sources, such as but not limited to, fire or reflection of sunlight from energy-efficient window products. Low-emissivity (Low-E) glass can potentially harm Aspire products. Low-E glass is designed to prevent passive heat gain within a structure and can cause unusual heat build-up on exterior surfaces. This extreme elevation of surface temperatures, which exceeds that of normal exposure, can possibly cause Aspire products to melt, sag, warp, discolor, increase expansion/contraction, and accelerate weathering.

Current or potential Aspire customers that have concerns about possible damage by Low-E glass should contact the manufacturer of the product which contains Low-E glass for a solution to reduce or eliminate the effects of reflected sunlight.

Do not install for use as a fire pit. Grills and fire bowls may be used when placed over a fire mat to prevent any damage from burning embers. Pavers should be kept a minimum of 4' from any open flame.

Building Code Compliance

Aspire Pavers should be installed in accordance with the local building codes and the installation guidelines included below. Aspire accepts no liability or responsibility for the improper installation of this product. Aspire Pavers may not be suitable for every application and it is the sole responsibility of the installer to be sure that Aspire Pavers are a fit for the intended use. Since all installations are unique, it is also the installer's responsibility to determine specific requirements for each application. Aspire recommends that all applications be reviewed by a licensed architect, engineer or local building official prior to installation. Failure to install Aspire Pavers in accordance with applicable building codes and this Installation Guide may lead to personal injury, affect product performance and void the product warranty.

Expansion and Contraction

Aspire Pavers will expand and contract with temperature change (similar to other composite materials). Leave a minimum $^1/_2$" gap between paver system and all walls or protrusions.

Cold Weather Installation (Below 50° F): Leave a $^1/_4$" gap between grids to allow for expansion.

Hot Weather Installation (Above 80° F): Install grids with no spacing to allow for contraction

Excessive Construction Debris

It is important during construction, the Paver surface stay clear from excessive build-up of dirt, sand, and dust from tile, concrete, landscape blocks, or any other masonry products. If these materials are not removed immediately, the Paver surface may become difficult to clean and can potentially damage the Paver's surface finish.

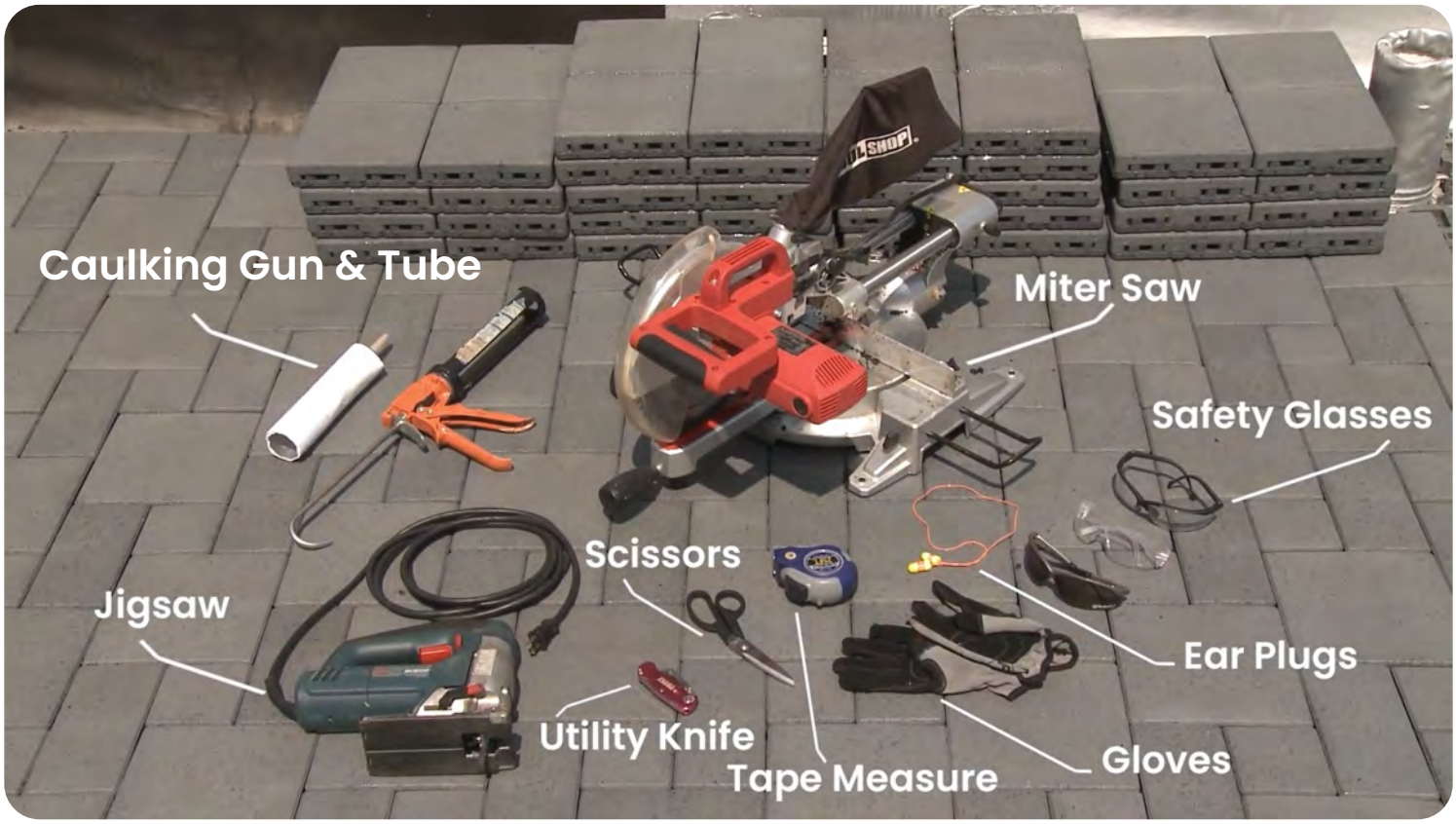
Do not use Aspire Pavers as a work surface.

If a build-up does occur please refer to the Care and Cleaning section in Aspire's Installation Guide or website, aspirepavers.com.

Please call Aspire by Brava Customer Service at (844) 290-4196 visit aspirepavers.com for information.

Installation & Tools

- Miter Saw with low tooth count wood ripping blade
- Jig Saw with low tooth count wood ripping blade
- Safety Glasses
- Ear Plugs
- Caulk Gun
- Lexel Sealant or TiteBond ProVantage Landscape Adhesive, or comparable
- Blower and/or broom
- Marker (Sharpie or wax pen)
- Utility Knife
- Hand Dolly
- Scissors
- Gloves
- Tape Measure



Designing Your Project

Calculate Square Footage:
Measure the dimensions of the area where Aspire Pavers will be installed and calculate the total square footage. Be sure to add extra to the measured square footage to allow for scrap and to have a few extras on hand in case of future damage.

Calculate Amount of Aspire Grids with Pavers:
A full grid of Aspire Pavers includes a 16.0" x 16.0" grid filled with pavers (1 to 16 pavers depending on their size). Each grid covers 1.78 square feet. To calculate how many grids are needed, divide the total square footage of the project by 1.78.

Calculate Bullnose Pavers Required:
Bullnose pavers are typically used at railings to hide the grid below and form a rounded edge. Each Bullnose is 4" wide, so you will need three (3) for every linear foot where Bullnose is needed.

Calculate Transition Pavers Required:
Transition Pavers are typically used for resurfacing concrete patios and walks to transition back to the original landscape level. They can also be used as a ramp for wheelchairs, dollies, or bar carts.

A Paver Estimator is available at **aspirepavers.com** in the Resource Section.

Example of a 500 SF Project with 10% Waste Factor

Step 1: 500 sq. ft. ÷ 1.78 = **281 Grids**

Step 2: 281 Grids x 1.1 = **309 Grids Needed**

Aspire Pavers Estimator

Aspire

Assumptions		
Choose Project Type (*List*)	Rooftop	<<-- Click to Select Option - Drop Down
Total Job Square Footage (*Enter Value*)	500	
Choose a Pattern (*List*)	Basketweave	<<-- Click to Select Option - Drop Down
Choose Border Paver Type (*List*)	Bullnose	<<-- Click to Select Option - Drop Down
Total Border Linear Feet (*Enter Value*)	0	

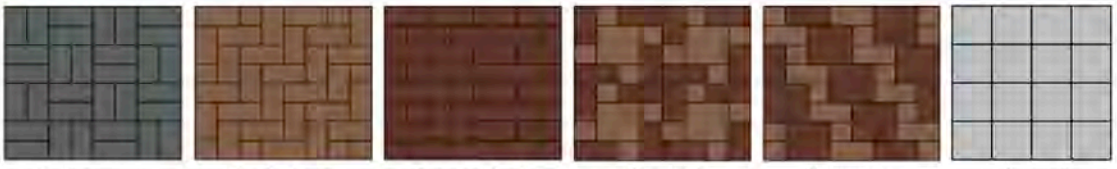
Order Summary with Waste [1]				
Item	Zero 0% Waste	Low 5% Waste	Medium 10% Waste	High 20% Waste
Grids with 1 Paver (16"x16" Paver)	0	0	0	0
Grids with 4 Pavers (8"x8" Pavers)	0	0	0	0
Grids with 8 Pavers (4"x8" Pavers)	281	295	309	338
Grids with 16 Pavers (4"x4" Pavers)	0	0	0	0
Bullnose Pavers Box of 36 (12 lf)	0	0	0	0
Transition Pavers Box of 18 (12 lf)	0	0	0	0
Drain Sheet Rolls (covers 200 square feet)	3	3	3	3

[1] Waste factor varies by job and can range from 0% to 20% or more. For most jobs, a 10% waste factor is sufficent however your situation may vary.

This tool provides an estimate of the materials needed and Aspire by Brava is not responsible for overages and shortages.

Please refer to the **Aspire Installation Guide** in the Resources section at aspirepavers.com for more information

Patterns



Basketweave | Herringbone | Running Bond | Pinwheel | Plainweave | Squared

Patterns (Using 4x4 and 4x8 Pavers)

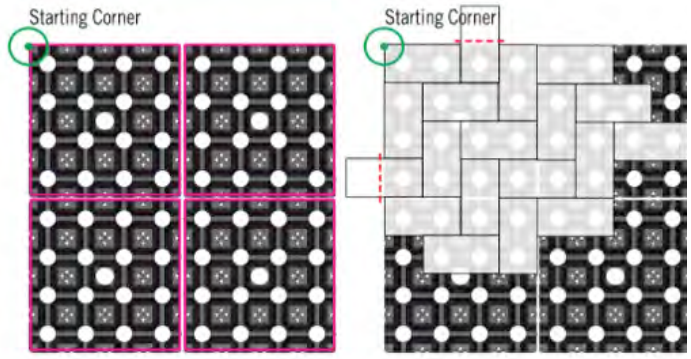
Aspire Pavers can be installed in a multitude of different patterns and combinations. Designs can include small and large repeating patterns. Some example patterns are provided below:

IMPORTANT: At least one paver must connect two grids in each direction. The herringbone pattern does this without needing to specially orientate the grids. Here is how the grids must be orientated to assure overlap in all directions for other patterns:

Herringbone:

This is the most popular pattern. Pavers will interlock grids in both directions.

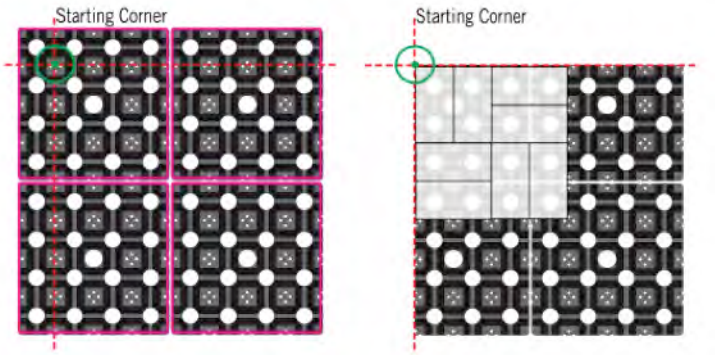
- Lay the installation grids as illustrated at left.
- Start laying pavers at the starting corner.



Basketweave:

This is the simplest.

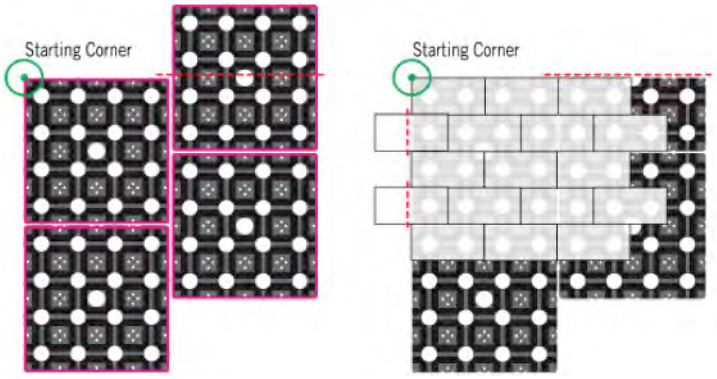
- The starting paver must be laid 4" down and 4" over from the top left corner of the grid. This will shift the pattern over and assure at least one paver will connect two grids in both directions.
- The leftover grid can either be trimmed off, or a 4" border can used to fill in the extra space.



Running Bond:

This pattern will require the staggering of grids to assure the pavers will connect them in both directions.

- The starting paver can be laid in the top left corner, but the next column of grids must be staggered halfway down the starting row. Every other column will need one half grid at the top.
- Each half of the cut grid can be used.



Patterns (Using 4x4, 4x8, and 8x8 Sizes)

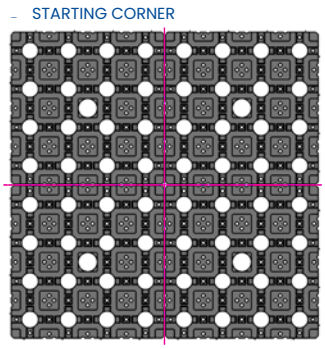
4x4, 4x8, and 8x8 Sizes

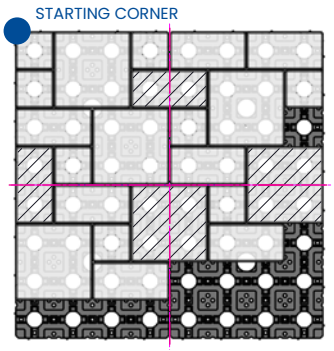
Aspire Pavers can also be installed in Plain Weave, Block Lattice, and Pinwheel patterns with different color combinations. Some example patterns are provided below:

IMPORTANT: At least one paver must connect two grids in each direction. Here is how the grids must be orientated to assure overlap in all directions for other patterns:

Plain Weave:

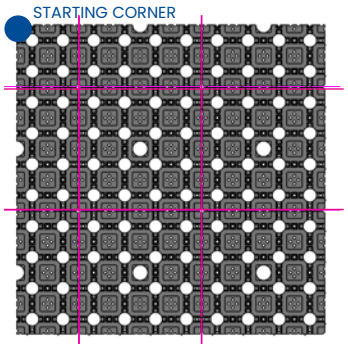
- 8 x 8 - 57.1%
- 4 x 8 - 28.6%
- 4 x 4 - 14.3%
- Lay the installation grids as illustrated at left.
- Start laying pavers at the starting corner.
- Compatible with 4" and 8" soldier course borders. course borders.

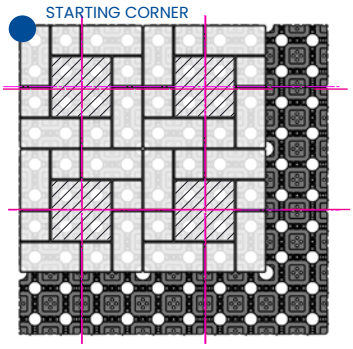


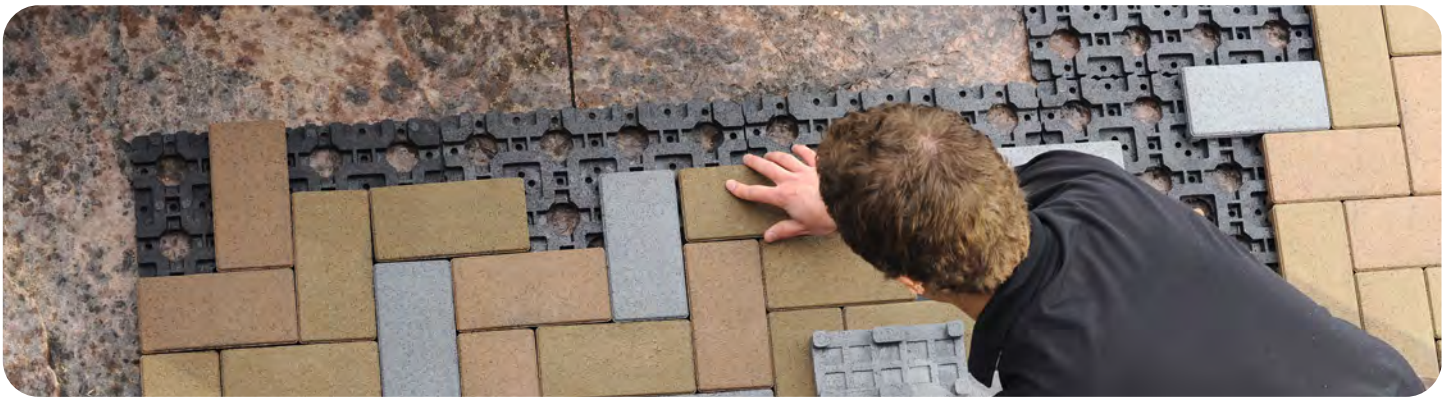


Pinwheel:

- 8 x 8 - 25%
- 4 x 8 - 50%
- 4 x 4 - 25%
- Trim Grids as illustrated at left.
- All parts of quarter Grids and half Grids can be used.
- Lay the installation grids as illustrated at left.
- Start laying pavers at the starting corner.
- Adding 4" or 8" soldier course would eliminate the need to cut grids.





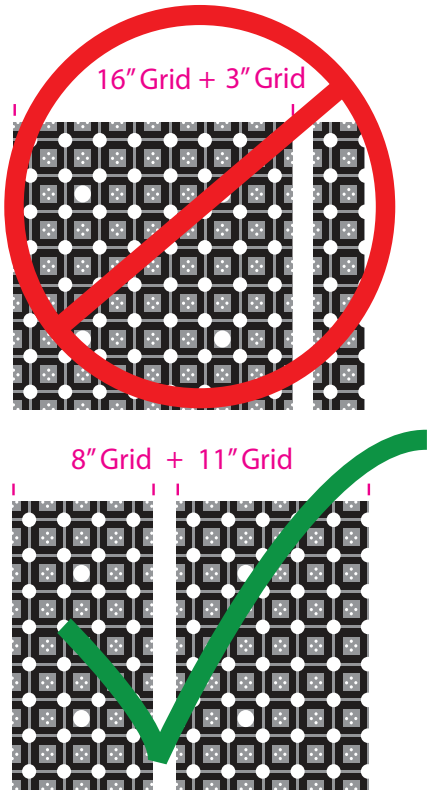


General Installation Instructions

The Aspire Paver System features a patented grid and paver design that makes installation fast and easy. It also enable you to install a variety of designs and patterns. The interlocking method is when one paver straddles the adjacent grid. It is important to interlock the grids with at least one paver in both directions. When you follow the designs on the previous page, your grids will interlock appropriately.

This General Installation section applies to all applications including Rooftop and Balcony, Resurfacing, and In-ground patios, walks, and driveways.

One example of cutting grids for optimal layout



IMPORTANT:
Always wear safety glasses and ear plugs when trimming pavers or grids. Obey all safety and operational instructions that came with the cutting equipment.

Cutting Pavers & Grids

- Pavers can be cut to any shape using a jigsaw or miter saw, and a low tooth count wood ripping blade.
- If using a miter saw, it works best to place the paver on a grid while cutting it. This allows the person cutting the product to both have more support holding the paver and keeps their fingers farther away from the blade. Short, quick motions with a miter saw also work better. Slow, continuous cuts may cause binding and warping of the blade.
- For pavers cut to dimensions smaller than half a paver, adhere the paver to the grid using a recommended adhesive.
- Use the recommended cutting equipment (see page 4).

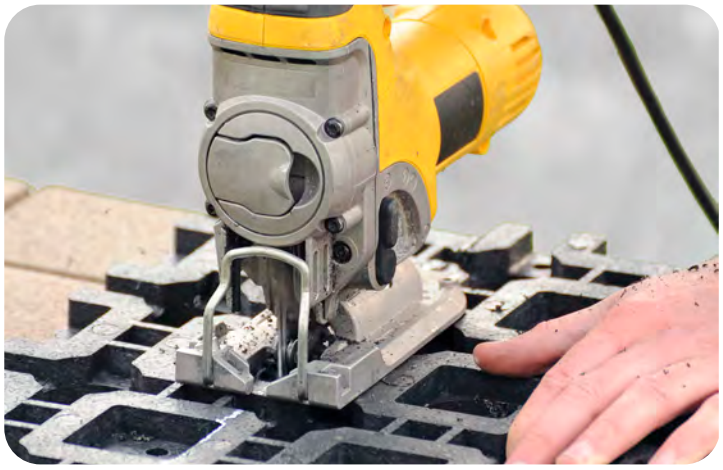
General Installation Instructions

Aspire Pavers will expand and contract with temperature change (similar to other composite materials). Leave a minimum 1/2" gap between paver system and all walls or protrusions.

Cold Weather Installation (Below 50° F): Leave a 1/4" gap between grids to allow for expansion.

Hot Weather Installation (Above 80° F): Install grids with no spacing to allow for contraction

- Choose your starting point based on the project dimensions and desired look, keeping in mind any cutting that may need to happen.
- Bullnose Applications: When using the Bullnose with Legs, it is recommended to start at the railing and work back to the wall. When using Bullnose with Tabs, start at the wall and work out to the railing.
- Begin by laying a handful of Aspire's patented installation grids in the arrangement that matches your pattern to ensure pavers overlap grids in both directions.
- To increase installation speed, order extra installation grids to get started.
- Bring over grids full of pavers, dump them next to where they will be placed into the grid, and place the empty grids into place.
- If mixing colors, bring over the ratio of colors being used and dump them in front of the person laying pavers. For example, for a pattern using 40% Boardwalk, 40% Olive, and 20% Waterwheel. The carrier would bring over 2 grids of Boardwalk, 2 grids of Olive, and 1 grid of Waterwheel each time.
- Begin laying pavers in the desired pattern; ensuring pavers are overlapping grids in both directions.
- When the edge is reached, grids can be cut to fit using a jigsaw or miter saw, and a low tooth count wood ripping blade.
- Continue laying pavers until all full pavers (i.e. not cut or trimmed) are installed.
- If the perimeter grid is less than 4", cut 4" or 8" off of the interior adjacent grid to increase the size of the perimeter grid. See example below.



NOTE:
Mix multiple pallets of the same color within an installation to disperse any potential slight variations in shade.

REMINDER:
Installation grids must be orientated to allow the pattern of pavers to interlock grids in both directions.

IMPORTANT:
Do not lay out all the grids and then install all the pavers. Instead, layout a few grids at a time up to a full row. Make sure the row is aligned and then add pavers. Installing pavers and grids as you go will help ensure proper grid spacing.

System Height

	PAVERS ONLY (Installed on Grids)	DRAINAGE MAT	COMBINED HEIGHT (Pavers & Drainage Mat)
RESURFACING PAVERS	1.75"	0.25"	2"

Adhering Pavers to Grid

In certain cases, pavers must be adhered to the grid for security (e.g. cut pavers, wind uplift conditions, around drains or where potential standing water could exist, stairs). Consult your Aspire Paver representative in all applications where wind uplift is a concern for recommendations.

- Using a recommended adhesive (see page 4) place a 1/4" bead across the top ribs of the grid.
- Place the paver in the grid and press down firmly.
- Let pavers sit undisturbed for duration of adhesive cure time.
- A 28 oz. tube of adhesive will cover approximately 25 square feet.

Securing Perimeter Pavers

Each application is different, and the perimeter must be secured accordingly. Aspire Pavers recommends adhering 16" around the perimeter. For applications that do not end at a wall or parapet, Aspire Bullnose Pavers or Aspire Transition Pavers can be used to finish off the open perimeter.

Installing Bullnose Pavers

Bullnose with Tabs

Bullnose Pavers are typically used on rooftops under railings or on steps. They can also be used up against a parapet wall if the wall curves upward and round edge looks better than a flat edge. They are available in two types, Bullnose with Legs and Bullnose with Tabs (no legs).

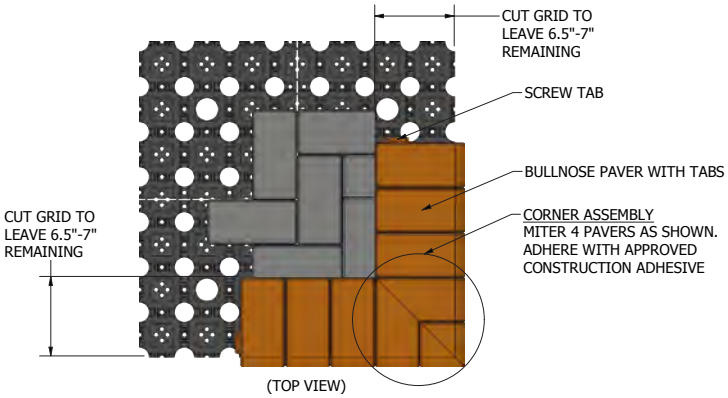
Bullnose with Tabs

The Bullnose with Tabs (no legs) can be placed anywhere on the grid to create a border that hides the side of the grid with a nice rounded edge. They are designed to give you the maximum flexibility to install where needed. They can be installed straight, on angles and even curves. When using Bullnose with Tabs, you will typically start at a wall and work out to the edge.

The tabs allow them to be screwed into the grid to hold them in place. This tab gives you the option to screwing or gluing them to the grid. For added security you can both screw and glue with Lexel Sealant or equivalent.

- Cut Grid to allow for adequate interaction of Grid and Paver and so the bottom of the Bullnose Paver is fully supported.
- Start project at the wall and work your way out to the edge.
- Apply 1/4" bead of adhesive to the top ribs of the Grid. When applying adhesive, do not put the adhesive over top of the tabs, as this could cause the adhesive to squeeze up and out between pavers, making the adhesive visible.
- Place Bullnose Paver onto the Grid, pressing firmly.
- For additional security, attach to the grid with a 1" flat head #8 screw being careful to not go past the tab surface. Note: On rooftop, we do not recommend the use of screw, just adhesive.
- Slide adjacent Bullnose Pavers into place until finished. (May need to cut off exterior tabs)
- Let cure for a minimum of 72 hours.

Bullnose with Tabs

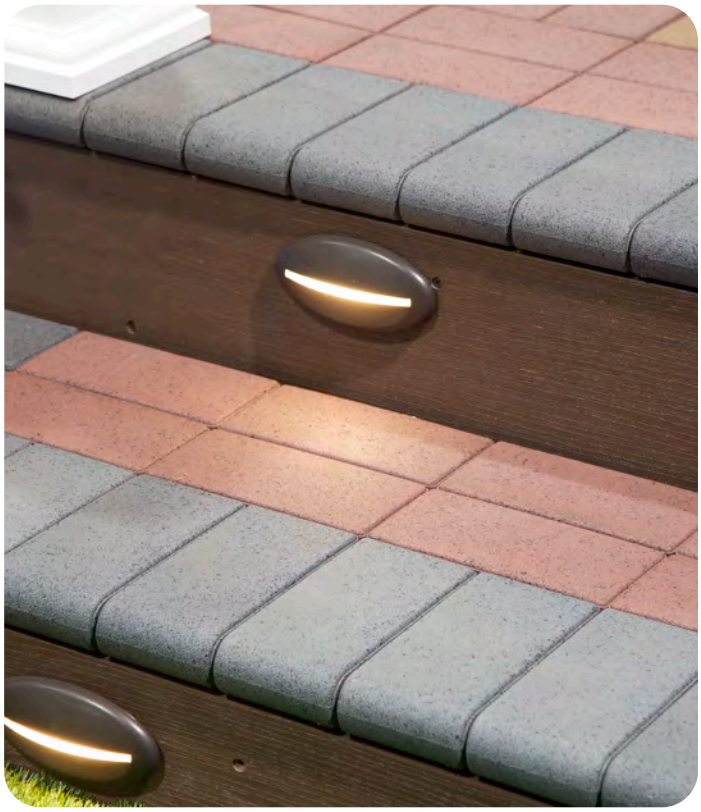


Installing Bullnose Pavers

Bullnose with Legs

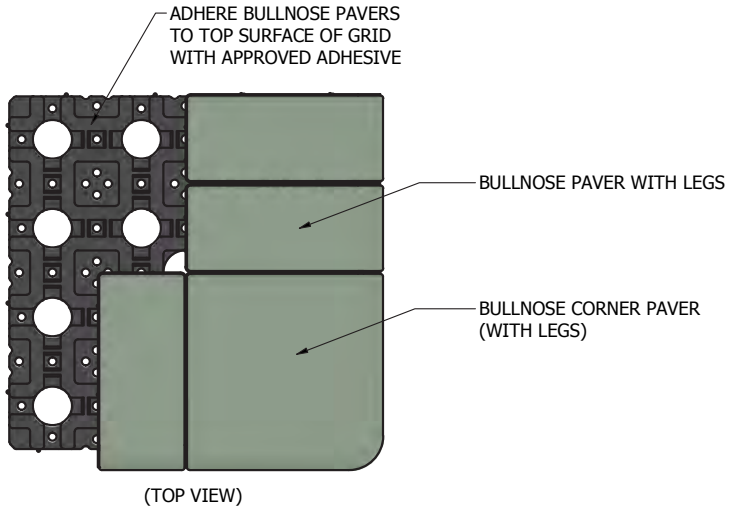
The Bullnose with Legs are more secure and there is no needs to use screws to fasten to the grid. They are installed just like the pavers in the field. However, when using Bullnose with Legs you need to start on the outside with full grids and work back to the wall. In addition, since they have legs, you do not have the flexibility to put them wherever you need the border. For example, if you have an irregular or curved deck the legs will get in the way when you try to place where they are needed. In this situation we recommend using the Bullnose with Tabs.

- Start project at the railing using full size grids and work you way back to the wall.
- Apply $^{1}/_{4}$" bead of adhesive to the top ribs of the Grid.
- Place Bullnose Paver onto the Grid, pressing firmly.
- Let cure for a minimum of 72 hours.



Bullnose used on steps

Bullnose with Legs



(TOP VIEW)

NOTE: 1. BULLNOSE CORNERS WITH LEGS MUST BE APPLIED TO EITHER A FULL GRID, OR A GRID CUT IN 1/4 INCREMENTS (4", 8" OR 12")

Installing Transition Pavers

The Aspire Transition Paver is designed to fit on top of the Aspire patented grid at the perimeter of a layout. It is typically used when resurfacing a patio or walkway. It provides a border and transitions the edge from the 1.75" height back to the original landscaping. It can also be used as a ramp for a wheelchair, cart, or dolly.

Transition with Tabs

The Transition with Tabs (no legs) can be placed anywhere on the grid to create a border that hides the side of the grid with a sloped edge (ramp). They are designed to give you the maximum flexibility to install where needed. They can be installed straight, on angles and even curves. When using Transition with Tabs, you will typically start at a wall and work out to the edge.

The tabs allow them to be screwed it into the grid to hold them in place. This tab gives you the option to screwing or gluing them to the grid. For added security you can both screw and glue with Lexel Sealant or equivalent.

Transition Pavers used on a resurfaced Patio

Flat Roof (Slopes from 1/8" to 1/2" per foot)

Aspire Pavers are ideal for rooftops and balconies as they are lightweight and easy to install. Pavers and grids can be cut to fit the space and Bullnose Pavers can be used under railings to cover the sides of the grid.

The Aspire Paver system is designed for roofs with slopes from 1/8" to ½". The paver and grid are designed to allow water to drain through the pavers and under the grid. To facilitate additional drainage and provide extra protection for the waterproofing membrane, an optional Aspire Drain Mat can be used under the grid. This is recommended for larger roofs exceeding 150 square feet.

Installing the Drain Mat (Rooftop Only)

A drainage mat is recommended for flat roof applications over waterproofing membranes. It serves to both protect the membrane from abrasion and allows a pathway for water to escape to the drains. Aspire Pavers recommends using Aspire Drain Mat or another comparable drain mat.

****Helpful Hint:** For small undulations in the flat roof surface, scrap pieces of membrane can be used as shims. This will help create a smoother top surface once the Aspire Paver system is installed.

- Clean the area of any loose debris.
- Start at the edge and install the drainage mat with the fabric flap facing the perimeter edge, and the length of the roll going with the slope of the roof.
- Cut it to length so that there is a $^{1}/_{2}$" gap between the material and all walls and protrusions.
- Apply a bead of construction adhesive $^{1}/_{8}$" to $^{1}/_{4}$" in a zigzag pattern along the edge of the strip of drainage mat without the fabric overlap. Install the next strip of drainage mat — overlapping and bonding the fabric flap onto the previous strip.
- Repeat procedure until entire plaza deck floor is covered.
- Remove excess material from last strip without eliminating the fabric overlap.
- Be sure to cut drainage mat around any drains or where water must escape.
- DO NOT adhere the material to the waterproofing membrane.

Installing Grids and Pavers

Once you determine your starting point, bring the grids with pavers to that area. Dump the pavers off the grid and begin laying grids. It is best to lay a row of grids out and then start placing the pavers in the grid in your desired pattern. Continue until you complete.

In most situations you will need to cut pavers and grids to fit the roof layout at the walls. In doing this, leave a 1'2" from the walls to allow for expansion and contraction. For penetrations, it is also important to leave a minimum of ½" spacing from the penetration.

IMPORTANT:
Water will flow out underneath the Aspire Paver system. The surface being covered should be sloped appropriately (typically 1 inch every 6 feet).
Aspire Resurfacing Pavers and Resurfacing Accessories are not designed nor recommended for vehicular traffic.

Sub-Structure Requirements

Aspire Pavers are designed to cover an existing hardscape free from major undulations. Aspire Pavers will contour to the surface in which they are resting, and will reflect any imperfections. The following techniques can be used to reduce undulations:

- A self-leveling concrete or similar product can be used to fill in any low areas.
- High areas can be knocked down and evened out to create a smooth surface.
  - It does not need to look good, as the resurfacing pavers will cover it.
- Door and other thresholds must be able to support 1-$^{3}/_{4}$" added height.
- Refer to page 8 for laying Aspire Pavers.

Edging the Perimeter

To secure the perimeter, there are a couple common methods when the perimeter is up against a penetrable surface (e.g. dirt, grass):

Use Aspire Resurfacing Bullnose or Transition Pavers:

- Refer to pages 11-13 for installation guidelines.

Use a Paver Restraint:

- A paver restraint (e.g. plastic, aluminum) can be used around any perimeter not bordered by an existing structure.
- Pound 10" metal spikes through the edging and into the ground every 6" to 12".
- Back fill up to the edging with dirt, sod, or other landscaping material.

Use a Recommended Adhesive:

An alternative way to edge the pavers is to adhere the pavers to the grid 12" around the perimeter. Do not adhere the grid to the substructure.

- Using a recommended adhesive (see page 4) place a $^{1}/_{4}$" bead across the top ribs of the grid.
- Place the paver in the grid and press down firmly.
- Let pavers sit undisturbed for duration of adhesive cure time.
- A 28 oz. tube of adhesive will cover approximately 25 square feet.
- Back fill up to the edge of the pavers with dirt, sod, or other landscaping material.

Aspire Pavers should not be filled with joint sand when used in a resurfacing application. For specific application questions, please call (844) 290-4196 or visit aspirepavers.com.

Application: Wood Deck Resurfacing

IMPORTANT:
Aspire Pavers are designed to be a deck covering installed over a structural deck surface. Aspire Pavers are NOT a structural replacement for a deck surface, and should NEVER be used as the structural element of the deck. Prior to installing, be sure to verify that the deck can support the addition of Aspire Pavers.

Sub-Structure Requirements

- The deck structure must meet and maintain all local codes.
- Any existing deck boards must be flat and have no protruding or loose fasteners.
- The boards should be made from rot / mildew resistant materials.
  - Consider using a water sealant where appropriate.
- Door and other thresholds must be able to accommodate the 1 3/4" added height.

Edging and Trim

To secure the perimeter, there are a couple common methods:

Use Aspire Bullnose Pavers:
- Refer to pages 11-12 for installation guidelines.

Use Aspire Transition Paver:
- Refer to page 13 for installation guidelines.

Use a Skirt Board Around the Perimeter:
- A skirt board can be installed around the open perimeters (not against the house).
- Install the skirt board 1 3/4" above the deck surface to meet up with the height of the pavers.
- Fasten the skirt board with the appropriate fasteners.
- Remember to leave the appropriate expansion gap between the pavers and the skirt board.

Covering Stairs

IMPORTANT:
Do not sweep sand in paver joints on decks

Deck stairs can be covered in a similar fashion as the deck surface, but a few more steps are needed.

Screw Grids to the Stair Treads:

In all stair applications it is required to fasten the grid to the stair tread with deck screws.

- Use 1 1/2" deck screws.
- Screw each grid to the stair tread with four screws, each placed approximately 2" in from the corners.

Adhering Pavers to Grid:

OPTIONAL: To reduce movement of the pavers, a recommended adhesive can be used between the pavers and the grid. Some customers may prefer this in high traffic areas (e.g. outside of doors, at the top of steps).

- Using a recommended adhesive (see page 4) place a 1/4" bead across the top ribs of the grid.
- Place the paver in the grid and press down firmly.
- Let pavers sit undisturbed for duration of adhesive cure time.
- A 28 oz. tube of adhesive will cover approximately 25 square feet.

Edging and Trim:

In a similar fashion as edging the surface of the deck, the stairs must also be edged to secure the pavers in place and give them a finished look.

Use a Skirt Board for the Riser and Side Trim:

- Run the skirt board up 1 3/4" above the deck surface to meet up with the height of the pavers.
- Fasten the skirt board with the appropriate fasteners.

Use Aspire Bullnose Pavers:

- Refer to pages 11-12.

Aspire Pavers should not be filled with joint sand when installed on a deck. For specific application questions, please call (844) 290-4196 or visit aspirepavers.com

Application: Patio and Driveway

1

Site Planning and Marking

Mark Project Area:

Once the project layout has been determined, mark or spray paint the overall outline, approximately 12" wider than the planned installation area. This will provide the additional excavation area needed for installing edging. Any pavers that abut structures or other paved areas will not require installed edging and therefore do not require the additional 12" of excavation.

IMPORTANT:

Locate Utilities. Prior to beginning the installation, ensure all underground utilities (e.g. electrical lines, phone lines, water lines) have been properly located and identified.

2

Base Material Design

The subgrade is the existing soil or surface that the installation will be built upon. Subgrades that are primarily clay or silt are the weakest subgrades and typically require additional base material.

Geotextile material should be used to help prevent poor subgrade conditions from mixing with the base material. Heavy foot or vehicular traffic conditions are also good conditions for using geotextiles. The geotextile will be placed between the subgrade and the base material.

Base material should be a dense graded aggregate. Aggregate graded to $^{3}/_{4}$" minus is a commonly used base material, often referred to as “Class 5” or “road base.” Please refer to local requirements and specifications. Do not use stone dust or screedings.

IMPORTANT:

The preparation of the site and base material is critical to a long lasting, flat and premium looking installation. Also, a properly prepared site will reduce installation time. Please contact a landscape professional if required.

IMPORTANT:
These are general guidelines only and all base requirements vary by soil conditions, weather conditions, and other site-specific conditions. Areas that see freeze-thaw cycles or have wet, clay or silt type subgrades generally require a deeper base. Consult a landscape professional for more customized base recommendations.

Gravel Based Recommendations

Patios, Walkways, Plazas, Other Foot Traffic	2" – 4"
Driveways, Other Light Traffic	6" – 10"
Parking Lots, Fire Lanes, Other Heavy Traffic	Consult Landscape Professional

The base material needs to be compacted every 2" as it is spread out. This will reduce any chance of the base material settling over time making the installation uneven.

Slope:
It is very important to slope the base in the direction that water is preferred to go. The typical slope is approximately 1" over 6'. Slope shall not exceed 10%.

Sand Bed:
A layer of bedding sand is spread out on top of the compacted base material. This layer should be a maximum of $^{3}/_{4}$" to 1". This will create a workable surface for the pavers to be installed upon and will make it easier to make the installation even.

- Use coarse sand that is washed and conforms to ASTM C 33.
- Do not use mason sand, stone dust, or sands with excess fine particles.

3 Excavation

To install the necessary base material, the existing ground material must be taken out. To calculate how deep to excavate, add up these layers:

Excavation Depth = Base Material Thickness + Sand Bed Thickness + 1.75" (Pavers) – $^{1}/_{4}$"

Once the excavation depth is known:

- Excavate site to the appropriate depth.
- Try not to disturb the subgrade beneath the required depth.
- The subtraction of $^{1}/_{4}$" leaves room for compaction that occurs during the final tamping.
- Level and compact the subgrade to a 95% proctor density (ASTM D 698)
- Always have the compaction formally tested to ensure it meets the required standards.

4

Install Base Material And Sand Bed

Install and Compact Base:

- Add base material 2" at a time.
- Compact each layer completely with a plate compactor or hand tamper.
- Compact to 95% proctor density (ASTM D 698).
- Be sure to compact all edges and corners thoroughly as these are at the most risk to degradation.
- Limit any undulations to under $^{1}/_{4}$" to limit any dips or humps in the final installation.

IMPORTANT:
Be sure to install base material at the proper slope. This should be approximately one inch over six feet to ensure sufficient water drainage.

Do not use sand to level depressions in the base layer. Instead, add base material to level the area.

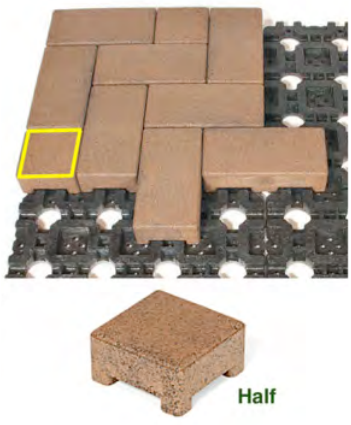
Install and Level Sand Bed:

- Add a $^{3}/_{4}$" to 1" layer of bedding sand.
- Lay down two parallel pieces of conduit ($^{3}/_{4}$" or 1" diameter).
- Place bedding sand between the two pieces of conduit and pull a screed board or straight edge down the conduit to level the sand out.
- Add sand to areas that are uneven and re-level.
- Pull the conduit out and fill in the area, leveling with a trowel or float.
- Do not compact the bedding sand.
- Refer back to page 7 for laying of Aspire Pavers.

Decide on Border / Soldier Course:

The Aspire Paver system allows for several border and soldier course options. These can either be straight or curved. The accessory pavers can help limit the cutting and give a finished look to the project.

NOTE:
Cut the legs off pavers to form a curved soldiered border.



5

Install Edging

Edge Restraints:

Aspire Pavers require the use of an edge restraint around the perimeter.

Edge restraints help keep the installation from moving, and perimeter pavers from tipping off the grid. The edging is generally staked down using 10" stakes, one every 6" to 12". Plastic, aluminum, or concrete edging will work.

Edge restraints can be installed next to, or on top of, Aspire Installation Grids. For areas that will eventually be bordered by sod, or that have a curved perimeter, some installers may prefer to install edging over the top of the installation grids. If this is done, drill holes in the grid where the stakes will go.

IMPORTANT:
When installed up against asphalt, a 4" wide ribbon of concrete the depth of the base material is recommended. If abutted directly to asphalt, expansion of the Aspire Paver system may push the asphalt and cause it to buckle.

Application: Patio and Driveway

6

IMPORTANT:
Review the surface after tamping for any imperfections. If any are found, lift up the pavers and grid and either add or remove sand to make it level. Re-tamp the pavers after the imperfections have been removed.

Do not use polymeric sand with the Aspire Paver system. As the system expands and contracts it may cause the polymeric sands to break away from the edges of the pavers.

Applications with Joint Sand:

Prior to sanding the pavers, use a vibratory plate compactor or a hand tamper to work the pavers into the sand bed. This will typically cause the pavers to sink approximately $^{1}/_{4}$" into the bedding sand and will reduce small undulations.

- A vibratory plate compactor will take one to two passes in both directions.
- A hand tamper will require several strikes in each location.
  - Move around as you strike the pavers and make several passes.
- The high undulated areas can be further tamped to even the surface.

The same sand used for the sand bed can be used for the joint fill. This is a clean, sharp and well-graded coarse sand. Do not use overly fine sands; coarse sand will perform better. The standard specification for joint sand is ASTM C 33.

- Start by spreading the sand across the pavers with a shovel.
- Allow the sand to dry completely; this will make it easier to get into the joints.
- Use a broom to spread the sand across the joints, sweeping in all directions.
- Continue to spread and sweep the sand while tamping the pavers.
  - This can be done with a hand tamper or plate compactor.
- When the joints appear to be filled to the desired level, sweep the installation clean of any remaining sand or dust.
- The pavers will return to their original color once the pavers have been cleaned by rain.
- Additional joint sand applications may be necessary after rain or settling of the joint sand occurs.

Applications without Joint Sand:

After installing the grids, pavers and edging, use a vibratory plate or hand tamper to even out any small undulations.

Maintenance & Cleaning

Maintenance

- Aspire Pavers require virtually no maintenance other than necessary clean-up from spills or periodic cleaning as desired. No sealer is required.

Cleaning

- Aspire Pavers are non-porous and therefore less likely to absorb stains. In most cases, they can be cleaned with a garden hose.
- For most stains, use household cleaner, soft brush, and then hose off.
- Always check the compatibility of cleaning products with plastics and rubber prior to using on Aspire Pavers.
- Pressure washing is NOT recommended. If used, be sure to use from a distance with wide fan so as not to damage the surface of the pavers.

Aspire

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For more information please visit aspirepavers.com or call 844-290-4196 05/24