

# ULTIMATE I PAVERS INSTALLATION & MAINTENANCE GUIDE



INCLUDING:

**GENERAL RECOMMENDATIONS • INSTALLATION TOOLS CHECKLIST**

**SUBSURFACE REQUIREMENTS**

**CORNER, CENTER & LOOSE-LAID METHODS OF INSTALLATION**

**PAVER MAINTENANCE • PRODUCT WARRANTY**

### BEFORE YOU GET STARTED

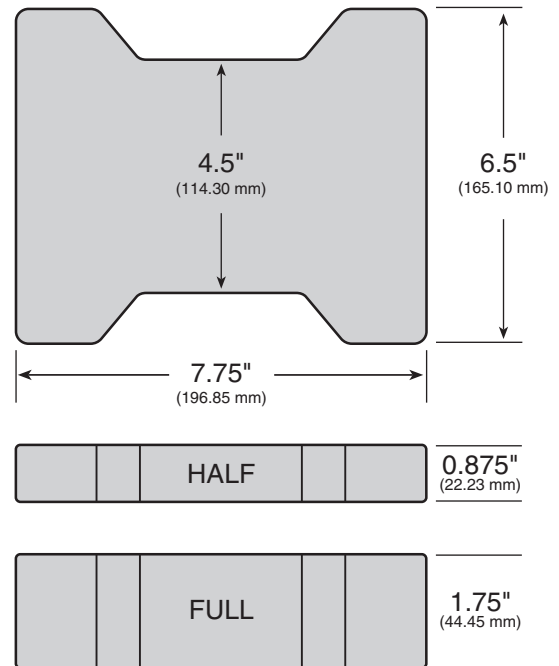
#### GENERAL RECOMMENDATIONS

1. Read all product and subsurface preparation instructions, adhesive instructions, warranty and other disclaimers BEFORE you begin to install Ultimate I Pavers.
2. The installation surface and Ultimate I Pavers need to be clean and dry prior to installation. Moisture acts as a catalyst when polyurethane adhesives are used, so its essential that the pavers and the bonding surface is dry.
3. Temperature variations can also affect rubber paver installation as pavers can contract in cold weather and expand in warm. This is a natural effect of of the rubber material and is to be expected. Rubber pavers are recommended to be enclosed from a minimum of three sides either by walls, curbing or other barrier.
4. Prior to starting any installation, lay out the rubber pavers on or near the subsurface to allow them to acclimate to the ambient temperature. When installing outdoors, the entire area should be covered by sunlight or shade. Uneven temperatures could affect the paver installation.
5. Store Ultimate I Pavers in a clean, dry environment. When stored properly, the rubber pavers are able to withstand temperatures from -40° F (-40° C) up to 176° F (80° C).
6. For best results, Ultimate Systems recommends using a one-part polyurethane adhesive to glue the rubber pavers to a solid surface. The surface must be dry, clean and free from any grease.
  - Full pavers (1.75"/44.45mm) can be adhered or loose-laid.
  - Half pavers (0.875"/22.23mm) must be adhered.
  - Full pavers that are loose-laid (not adhered) must be installed against a perimeter border.

**\*\*\* IMPORTANT \*\*\***

**DO NOT use petroleum-based products in conjunction with Ultimate I Paver installations. This includes solvents, adhesives or sealants.**

All substrates (such as concrete) must be fully cured for 45 to 60 days prior to installing Ultimate I Pavers. Improper installation will void the warranty.



#### RECOMMENDED INSTALLATION TOOLS

- Rubber gloves, safety glasses and knee pads
- Utility knife with replacement blades
- Chalk line
- Metal carpenter's square
- Water spray bottle (if using polyurethane adhesive)
- Adhesive trowel (1/8" U-Notch)
- Rubber mallet
- Measuring tape
- Pen or Marker
- Bandsaw, jigsaw or saber saw with large cutting teeth
- 75 lb. sectional roller
- Manual Plate Compactor



### SUBSURFACE REQUIREMENTS

#### SUBSURFACE REQUIREMENTS FOR INSTALLATION

1. Ultimate I Pavers may be installed on concrete, asphalt, wood or compacted sand/gravel surfaces.
2. All subsurfaces should be properly excavated or leveled to ensure:
  - Proper subsurface drainage
  - Non-separation of concrete layers
  - Prevention of heaving due to freeze/thaw or unstable ground conditions
3. **Stabilization of the subsurface is the sole responsibility of the installer and/or property owner.**

#### CONCRETE SUBSURFACES

1. Concrete surfaces must be thoroughly cured, free from hydrostatic pressure, leveled and cleaned from any foreign materials such as dust, dirt, paint, oil and water prior to paver installation.
2. To reduce the amount of adhesive required, concrete surfaces should be reasonably smooth.
3. Any separation of concrete layers, heaving, etc. is the sole responsibility of the installer and/or property owner.
4. Rubber pavers are water permeable, so water will drain through them. Allow for good drainage of the installation area with either a well-defined gradient (1% or greater depending on the coverage size of the surface) or well-placed drainage pipe in lower spots of the area.
5. The existing concrete surface shall be free of significant cracks or gaps prior to the installation.

#### ASPHALT SUBSURFACES

1. Asphalt subsurfaces must be hard enough not to melt during the hot weather, leveled, and free from any foreign materials such as grease, oil, dust, paint and other contaminants. Avoid paver installation on new asphalt until surface oil has had time to dissipate (Approx. 30 days after compacting) and drainage can be evaluated.

#### ASPHALT SUBSURFACES (Continued)

2. Any separation of asphalt or blacktop layers, heaving etc. is the sole responsibility of the installer and/or property owner.
3. Rubber pavers are water permeable, so water will drain through them. Allow for good drainage of the installation area with either a well-defined gradient (1% or greater depending on the coverage size of the surface) or well-placed drainage pipe in lower spots of the area.
4. The existing asphalt surface shall be free of significant cracks or gaps prior to the installation.

#### WOODEN SUBSURFACES

1. The wooden subsurfaces should be in good condition, properly secured to avoid any ground shifting and any subsequent sub-floor movement. The subfloor should be protected and sealed from moisture prior to installation, while the sealer should be completely dry before the pavers are installed.

Note: Any sealer used must be compatible with the polyurethane adhesive if the pavers are to be adhered. Avoid use of surface treatments that leave oil residues on wood surface.

2. The wood surface should be clean and free from any foreign materials such as dust, dirt, paint or protruding nails and screws. All damaged wood should be replaced.
3. The surface should be leveled, clean and dry before application. Trapped moisture may cause deterioration and premature rotting of the wood.
4. Rubber pavers are water permeable, so water will drain through them. Allow for good drainage of the installation area with either a well-defined gradient (1% or greater depending on the coverage size of the surface) or well-placed drainage pipe in lower spots of the area.
5. The existing wooden surface shall be free of significant cracks or gaps prior to the installation.

## SUBSURFACE REQUIREMENTS (Continued)

### SAND/CRUSHED GRAVEL SUBSURFACES

1. Sand/crushed gravel subsurfaces must be dense enough, leveled, and free from any foreign material such as leaves, grass, etc. prior to installation.
2. Compacted gravel surfaces are the sole responsibility of the installer and/or property owner in order to provide a stable subsurface with proper drainage.
3. When crushed gravel is used, a damp leveling sand should be applied on top to smooth the surface. A geotextile membrane (minimum thickness of 3mm) should be placed over the top of the compacted surface with all joints overlapping. Secure the joints with duct tape or adhesive. The rubber pavers will be adhered to the membrane (if adhesive is used).
4. Use a solid edging around the perimeter to keep the rubber pavers in the desired area. See "Perimeter Edging/Barriers" section on this page.
5. To prevent surface deformations, Ultimate recommends using only FULL rubber pavers for installations in sand, gravel or similar subsurfaces.

### PERIMETER EDGING/BARRIERS

A perimeter barrier can be installed to create a finished edge. Examples of edging or barriers include:

- Wood 2x4's
- Concrete curbing
- Railroad ties
- L-shaped aluminum channel

Climate, aesthetics and ease of installation/procurement can determine which edging is used. Whatever material is selected, the edging/barrier should not exceed the height of the installed pavers.

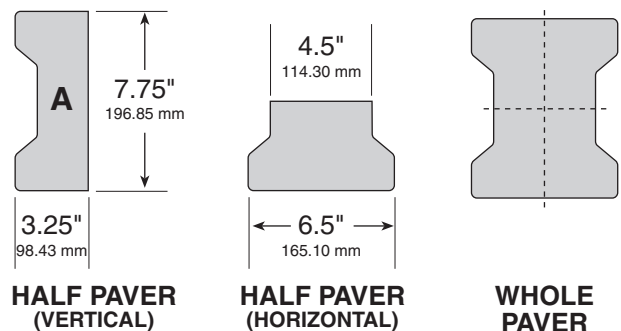
## PAVER INSTALLATION

### PRIOR TO INSTALLATION

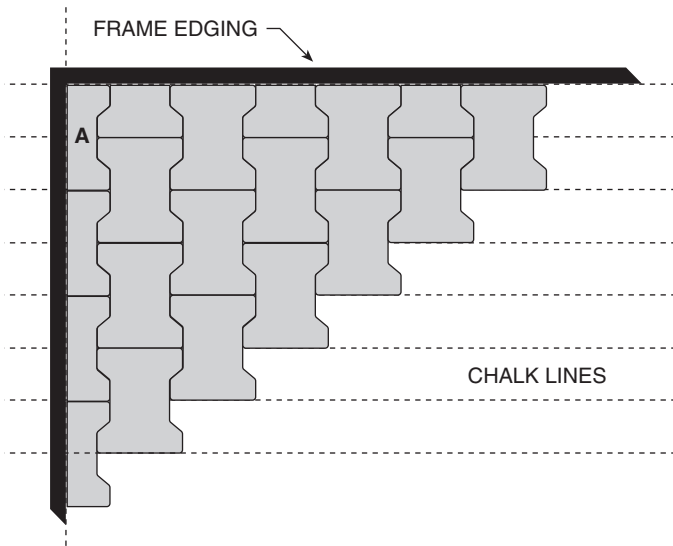
1. Ensure that the base surface is clean, level and dry. The rubber pavers must also be dry and clean. Review the "Subsurface Requirements" section starting on page 2.
2. Check the ambient air temperature. The minimum temperature for installation is 50° F (10° C). This can vary depending on the adhesive used.
3. Carefully read all adhesive application instructions prior to using the product.
4. For indoor installations, allow the rubber pavers (and adhesive) to acclimate to room temperature for a minimum of 48 hours.
5. To minimize cutting and waste, layout the rubber pavers before adhering to the subsurface.

### INSTALLATION (CORNER METHOD)

1. With the frame edging or barrier in place and perfectly square chalk lines on the subsurface, start by positioning one Starter paver (A) in the corner. See diagram below and on page 5.



### PAVER INSTALLATION (Continued)



Ultimate I Pavers can be trimmed and cut using a band saw or utility knife. Whole pavers can be cut in half vertically (starter paver) or horizontally (half paver).

2. **WITH ADHESIVE:** Apply one-part polyurethane adhesive evenly over the subsurface using a 1/8" U-notch trowel. A mist of water may be used over the polyurethane to act as a catalyst to decrease curing time. Always use gloves when applying adhesive. Cured adhesive can be difficult to remove from your hands.

Note: Apply adhesive as you lay pavers from left to right. Do not trowel large portions of the installation area in advance. This will eliminate accelerated drying and/or potential contamination of the adhesive from blowing dust and debris.

Be sure to follow the instructions found on the adhesive container.

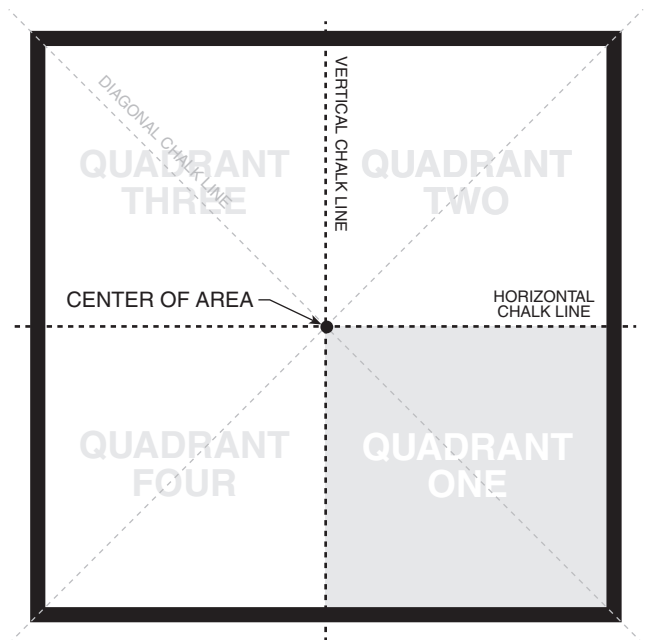
3. Position the first starter paver into the wet adhesive. Verify the paver edges are correctly aligned with the chalk lines and frame edging. Press firmly to set the paver and remove trapped air.
4. Moving from left to right, start row two with a half paver as shown in the illustration above. Position the paver tightly against the adjacent paver(s) so no sand can get caught in-between them.
5. Install Ultimate I Pavers diagonally away from the starter paver (A) using the chalk lines as guides. Ultimate I Pavers will interlock and provide a natural "cobblestone" stagger in the joints.
6. Continue installing the pavers until you reach the wall or barrier directly across from the starting frame edge. Keep paver edges

straight and aligned horizontally and vertically. The last paver placed against the wall/barrier may have to be custom cut to fit. Use a rubber mallet to set the paver in place if the fit is snug.

7. For proper transfer of adhesive to the subsurface, Ultimate recommends rolling the rubber pavers with a 75# sectional roller. Roll the width of the pavers first, then roll the pavers lengthwise. Roll the entire surface again after approximately 45 minutes.
8. Keep all traffic off of the newly installed rubber pavers for a minimum of 24 hours. Depending on the temperature and humidity level, the adhesive may take longer to fully cure.

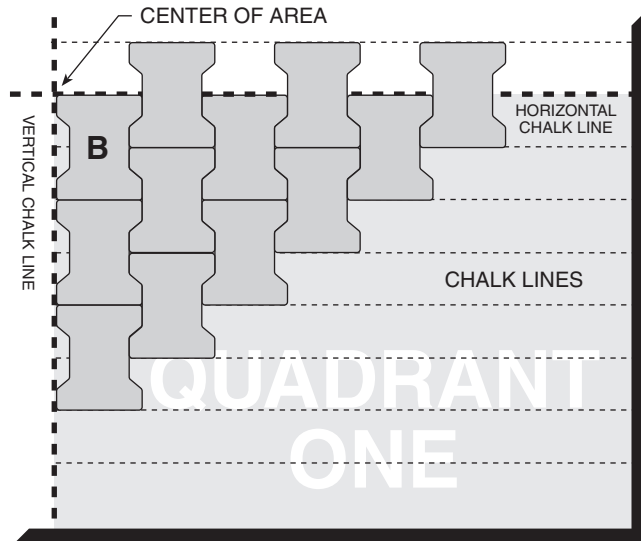
### INSTALLATION (CENTER METHOD)

1. With the frame edging or barrier in place, determine the center of the area to be paved. Start by snapping a chalk line from one corner to the opposite corner. Repeat for the remaining corners. Where the lines intersect is the center. See diagram below.



2. Snap 90-degree vertical and horizontal chalk lines at the center of the area. This splits the total area into four basic quadrants.

### PAVER INSTALLATION (Continued)



#### INSTALLATION (PAVERS LAID LOOSE)

1. Review the "Sand/Crushed Gravel Subsurfaces" section on page 4 prior to installing your Ultimate I Pavers. Only FULL pavers are recommended for use in sand or crushed gravel.
2. Determine and locate your frame edging in the desired position verifying that all corners are completely square. The edging will retain the loose-laid pavers and prevent them from shifting.
3. To help prevent ground freeze/thaw heaving and settling, a good foundation for the pavers is recommended.

**\*\*\* IMPORTANT \*\*\***

**THINK BEFORE YOU DIG.** If you are unsure of potential underground utility wires or other hazards, contact your local municipality or utility company before you dig.

Begin by removing approximately 12" of soil from the installation area. This should include area for the edging as well.

4. Fill area with approximately 9" of crushed gravel and compact using a handheld compaction plate. A one-inch layer of course, damp leveling sand should be used on top of the crushed gravel.
5. Install the frame edging inside the excavated area. If necessary, anchor the edging to the ground.
6. Begin laying interlocking rubber pavers. See "Corner Method" for recommended installation (without adhesive).

3. Install one whole paver (B) with a corner touching the center point. Move diagonally outward from the corner following the horizontal and vertical chalk lines.
4. If adhering the pavers to the subsurface, review installation steps #2 and #3 on page 5.
5. Moving from left to right, start row two with a full paver positioned against the starter paver (B) as shown in the illustration above. Position the paver tightly against the adjacent paver(s) so no sand can get caught in-between them. Verify the paver edges are correctly aligned with the chalk lines and frame edging.
6. Follow steps #5 through #8 on page 5 to complete the installation.



### PAVER MAINTENANCE

#### ULTIMATE I PAVERS ARE EASY TO MAINTAIN

Ultimate I Pavers are manufactured from 100% recycled rubber material making them an extremely durable product and virtually maintenance free.

#### PAVER MAINTENANCE for OUTDOOR INSTALLATIONS:

- For paver surfaces covered with loose debris such as leaves and grass clippings or wind-swept dirt, use a broom or handheld blower to remove the debris.
- For stubborn dirt buildup or packed mud, use a high-pressure garden hose or pressure washer. A mop or scrub brush can be used to clean concentrated areas.

#### PAVER MAINTENANCE for INDOOR INSTALLATIONS:

- For paver surfaces covered with loose debris, use a broom or vacuum to remove the material.
- Damp mop once per week to keep Ultimate I Pavers looking good and to help maintain the life of the paver finish.
- For recommended floor cleaning and maintenance products, visit Ultimate's web site at [www.firstinrecycledflooring.com](http://www.firstinrecycledflooring.com).
- Contact Ultimate Systems Customer Service at 419-692-3005 with any questions pertaining to cleaning or maintenance.

### DISCLAIMER & WARRANTY

#### DISCLAIMER

The *Ultimate I Paver Installation & Maintenance Guide* represents typical installation methods. Generally accepted installation practices should be followed. Use of a trained installation professional is recommended for best results. Ultimate Systems does not warrant any installation work and specifically disclaims liability for any direct or indirect personal injury, property damage or other costs or losses resulting from incorrect or inadequate installations.

#### WARRANTY

Ultimate Systems warrants Ultimate I Pavers to be free of manufacturing defects in MATERIAL ONLY for a period of one year from the date of sale to the consumer. Liability is limited to replacement of product to the original consumer. Ultimate I Pavers comply with the technical specifications and published technical materials at the time of sale.

This warranty does not extend to:

- Rubber pavers that have been improperly installed.
- Rubber pavers that have been installed over improperly prepared subsurfaces or preparation of a subsurface not specifically recognized in this guide.
- Common wear and tear of the rubber pavers.

- The surface appearance of the paver or color inconsistency.
- Rubber pavers subject to misuse, abuse, neglect, chemical cleaning or contact not approved by Ultimate Systems.

Ultimate Systems' sole liability under this limited warranty shall be the repair or replacement, excluding installation and other costs, at its option, of product strictly according to the procedures set forth in this guide. The implied warranties of merchantability and fitness for a particular purpose are hereby specifically disclaimed. In no event shall Ultimate Systems be liable for any special, indirect or consequential damages, whether arising out of contract, tort or any theory of law. To exercise this limited warranty, Ultimate Systems must be notified within fifteen (15) days of any occurrence, giving rise to claim and prior to installation, given opportunity to inspect the product, and have issued direction to the original purchaser respecting disposition of product to be replaced under this limited warranty. Purchaser shall comply with all reasonable requests of Ultimate Systems in the administration of any warranty claim.



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1430 North Main Street  
Delphos, OH 45833  
**T** 419.692.3005  
**F** 419.692.1401

[www.firstinrecycledflooring.com](http://www.firstinrecycledflooring.com)

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