



# PaverBase

For All Patios, Walkways, Stackable Sitting Walls, Pillars, Artificial Turf, Athletic Courts, Sheds and More



**THE BASE is the most important step for long lasting projects.**

## HOW TO INSTALL INSTRUCTIONS:

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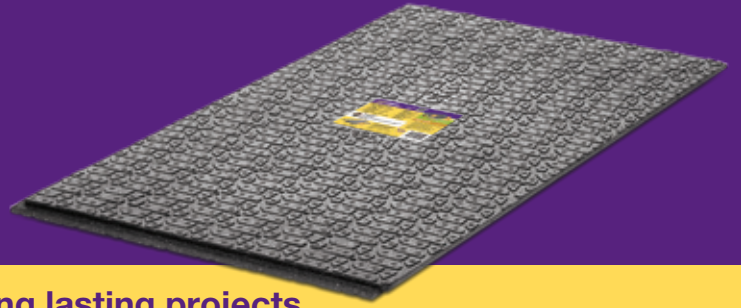
### Need help?

Call Tim Newton anytime with questions or to discuss your PaverBase project: **813.431.8259**

 BROCK

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Page 2

## NEW PROJECT



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# BROCK PaverBase

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## HOW TO INSTALL PATIOS AND WALKWAYS

New Project – (replacing grass/dirt)

Pavers, Patio Stones, Porcelain Tiles, Rubber Mats

\*Natural Flagstone, Wet Cast\*

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### STEP 1

#### PREPARING YOUR PROJECT AREA

Determine how much to excavate using the example below. Remove the grass to desired depth (skim rather than dig deep) and a few inches wider than you project area.



#### MATERIAL REMOVAL GUIDE

##### Tim's Tip:

The total project area will be approx. the thickness of your paving stone + 1".

How deep you need to dig is determined by adding the thickness of the following components:

EXAMPLE	Approx. Thickness
Leveling Sand on Fabric	1/2 Inch (hand tamp)
Paving Stone Thickness*	+ 1-3/4 Inches
Brock PaverBase	+ Approx. 3/4 Inch
Dig out this many inches below your current level	= Approx. 3 Inches

\*will depend on the Paving Stones you select.



Paver Patio

### STEP 2

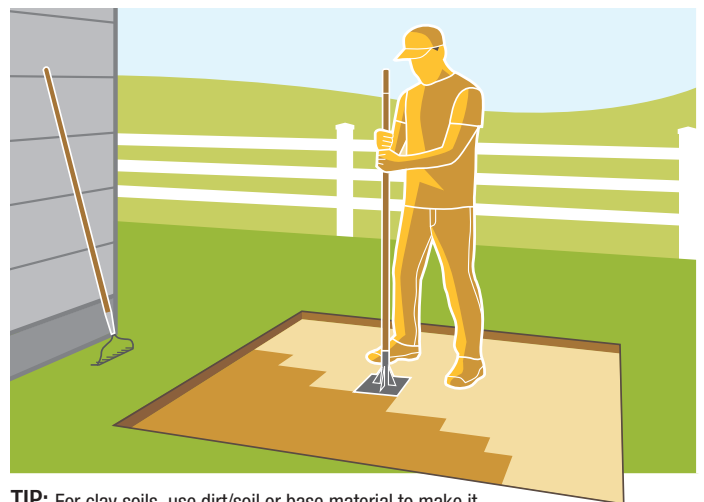
#### LEVEL AND COMPACT THE BASE

Using a hard rake and/or shovel, compact and level the area with appropriate slope. The ground should be tightly compacted using a hand tamper or plate compactor. The slope should be about 1/4" per one foot of distance. It is helpful to pull a string line so you can check your slope. To run a string line, attach a string to a fixed point on the house side about 3" above the surface of the patio, and pull it tight toward the outside edge of your new patio area. Attach the other end to a landscape stake in the ground making sure the string is tight. Use a level and ruler to create the desired slope. For example, the patio should slope 2.5" over a 10 foot distance (Diagram below). This will ensure that the patio moves water away from the house.

##### Tim's Tip:

Use along straight edge or side of a 2 x 4 (from high end to low end of you project) to fix the high and low spots.

The area should be as smooth as possible, making sure to get rid of high and low spots to within +/- 1/4". This is now your flat compacted ground with 1/4" slope per foot. Congratulations, the hard part is over!



**TIP:** For clay soils, use dirt/soil or base material to make it easier to compact the ground flat with 1/4" slope per foot.



Paver Patio

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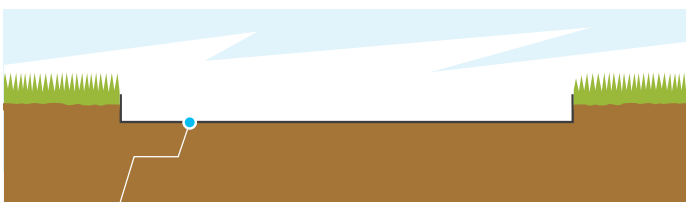
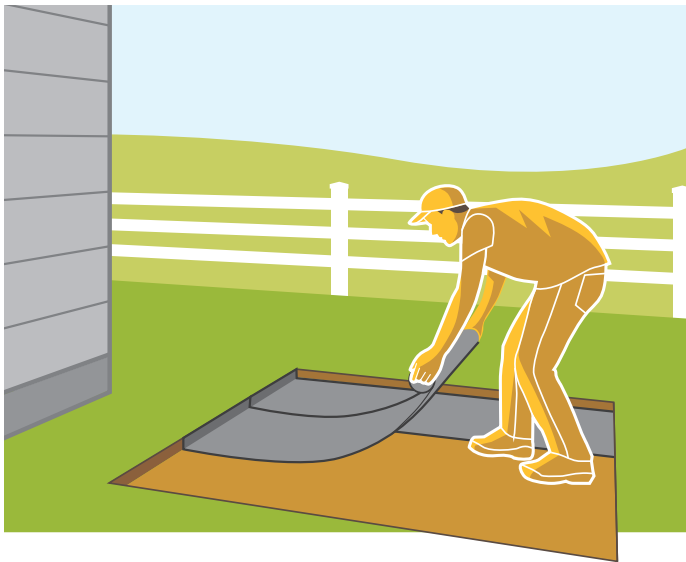
### STEP 3

#### ADD A LONG LASTING LANDSCAPE FABRIC

Next install long lasting landscape fabric (15, 20, 30 years, Lifetime) over the excavated and compacted area. Overlap the edges of the fabric by 4-6".

##### Tim's Tip:

Lay extra fabric on the sides. After you lay the panel or panels and paving stones, fold the fabric up then place edge restraints. This will ensure sand cannot leech out.



LANDSCAPE WEED FABRIC (BARRIER)

**NOTE:** Fabric holds in the sand, not for weeds.

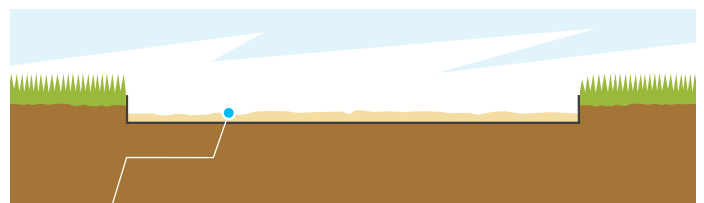
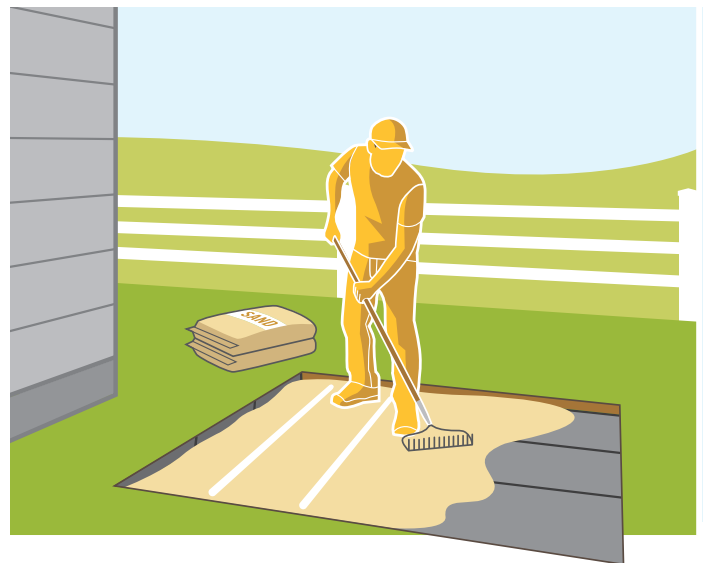


Porcelain Tile Patio Grill and Kitchen

### STEP 4

#### SPREAD A 1/2" LAYER OF LEVELING SAND

Lay two 1/2" pipes (or rebar) on top of the fabric over the ground in the same direction as your slope, high to low end. Spread an even layer of sand over the pipes in your project area.



1/2" ALL PURPOSE LEVELING PAVER SAND (STEP 2 SAND)



Porcelain Tile Patio and Walkway

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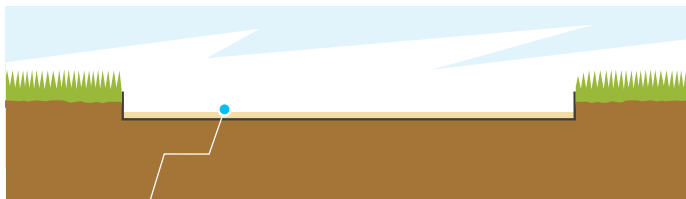
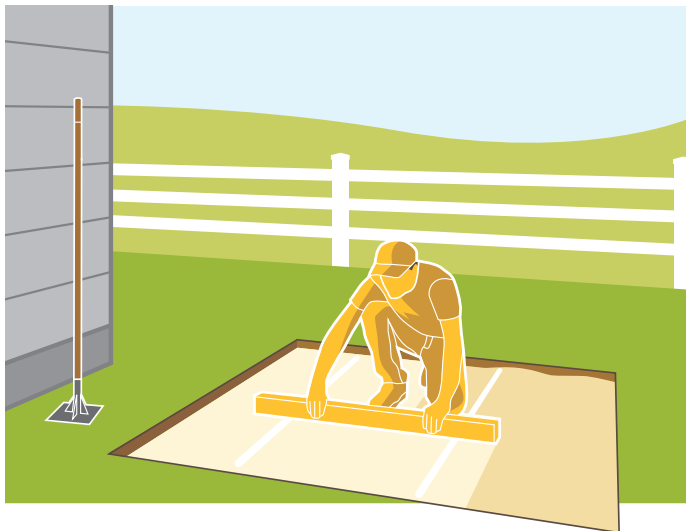
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**STEP 5**  
**SCREED THE SAND USING A BOARD**

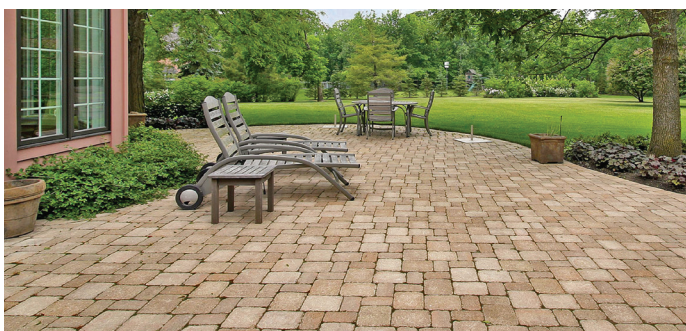
Using a standard 2x4 that is 6 feet long, screed the sand using the board along the pipe or rebar, maintaining your slope so watch your string line. Make sure the board you use is straight and true! Hand tamp the sand and recheck to make sure you do not have any high or low spots. Do not use a plate compactor to compact the sand.

**Tim's Tips:**

- Remove the screed pipes before laying your panels.
- Use long straight edge or side of 2 x 4 (same as step 2) after you hand tamp the sand.



1/2" LEVELING SAND SCREED



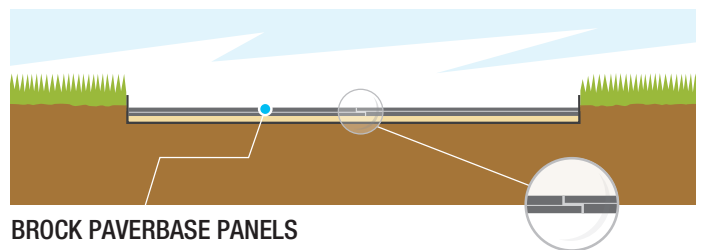
Paver Patio

**STEP 6**  
**INSTALL BROCK PAVERBASE PANELS**

Starting against a straight edge of the patio, lay the Brock panels, ensuring that the side flanges overlap. Ideally, lay them in a "brick-like" pattern (illustration below). This will ensure stability of the panels when you lay the pavers. To off set the panels (for the second row), cut a panel in half, using a utility knife, and start with the cut panel edge on the outside (where the edge restraint will be) so the panel flange/lips (tongue and groove) can be used. Use the bottom half panel to finish the end of the next row.

Trim any curves or along edges using a utility knife. Place any extra scrap pieces of Brock PaverBase in your recycling bin.

**TIP:** Fold the fabric up and or up and over the panel. This will make sure sand cannot leech out in time.



BROCK PAVERBASE PANELS



Paver Porch

# BROCK PaverBase

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## HOW TO INSTALL PATIOS AND WALKWAYS

New Project – (replacing grass/dirt)  
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\*Natural Flagstone, Wet Cast\*

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### STEP 7

#### INSTALL THE PATIO PAVERS

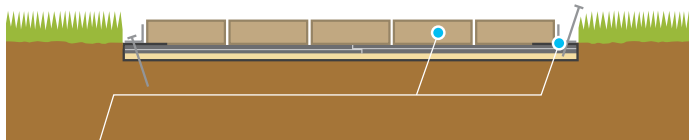
Now the fun really begins! Lay the pavers directly on the Brock PaverBase panels. Yes you can walk on the panels. You can slide the pavers into place. If you are trying to do a straight line, and the line gets crooked, hammer the row back in place using a rubber mallet. Do not use the edges of the panels or the pattern on the panels to try to line up your pavers. Use a string line to ensure straightness.

##### Tim's Tip:

Make sure the panels are tight/together when laying your paving stones.

- If you are using multiple size paving stones, don't worry if you lay the pattern incorrectly. You can move pavers and fix when using the panels.

**NOTE:** For Porcelain Tiles, lay the tiles over the entire panel surface, or trim panel edge.



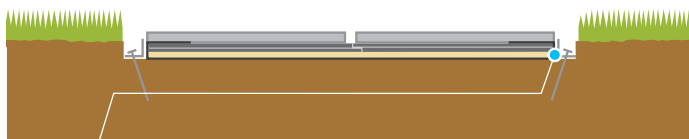
#### EDGE RESTRAINTS AND SPIKES – PAVERS OR PATIO STONES

##### INSTALL EDGE RESTRAINT AND SPIKES

Once your patio is complete and the pavers are tightly together you will want to hold the perimeter in place to keep it from moving. To do this simply lay pieces of edge restraint directly on top of the Brock panels. Then hammer 8-10" landscape spikes through the Brock PaverBase panel making sure to keep the edge restraint tight against the pavers.

##### For 3/4" Porcelain Tiles:

Lay the edge restraints along the side of the paving stones and panels, to avoid tripping or seeing edge restraint.



#### EDGE RESTRAINTS AND SPIKES

### STEP 8

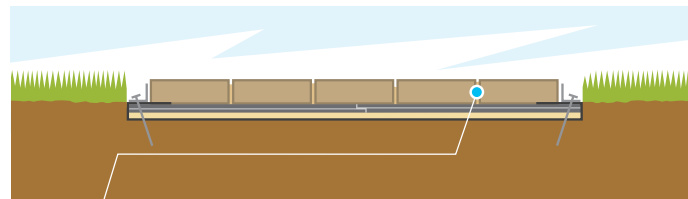
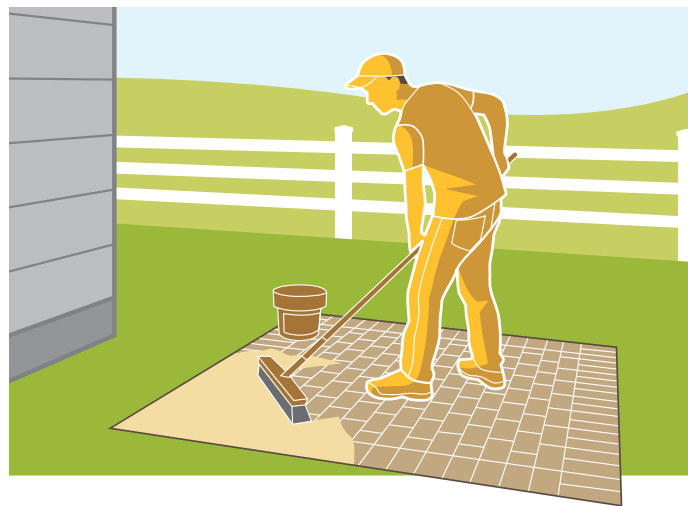
#### SWEEP IN REGULAR OR POLYMERIC SAND

Using a broom, spread sand over the patio and into the gaps between the pavers. Spread over small areas before moving onto the next one. Go back and forth over the gaps until no more sand will fit. Once you have swept the sand into the paver joints, a hand tamp should be used over the entire paver area in order to "vibrate" the sand further into the joints.

This tamping procedure will insure that the maximum amount of sand is holding the pavers in place. (DO NOT USE A PLATE COMPACTOR TO VIBRATE THE PAVERS!) Continue to add sand until the joints are full.

##### Tim's Tip:

If your paving stones are smooth sided, have no bumps/spacer bars, you do not need to add sand. Do not leave a gap as paving stone should always be laid together tightly.



#### POLYMERIC SAND

**NOTE:** There are two types of joint sand you can use. Polymeric joint sand will essentially harden like concrete between your paving stones so it is **PERMANENT**. Polymeric sand has several advantages: It is stable, so the sand won't end up on the top of your pavers; it allows you to power wash your patio without displacing the joint sand; it gives the patio a cleaner, more finished look. Alternatively you can use traditional joint sand, but you will need to re apply it each year. For the purposes of these instructions we will refer to Polymeric sand since it requires a few extra steps than plain joint sand.

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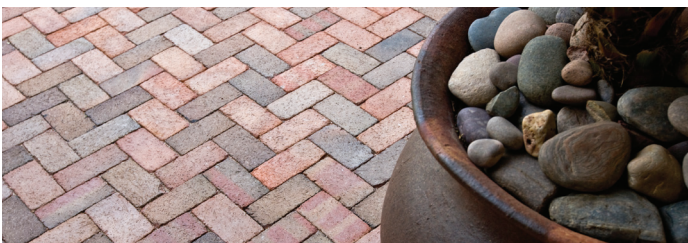
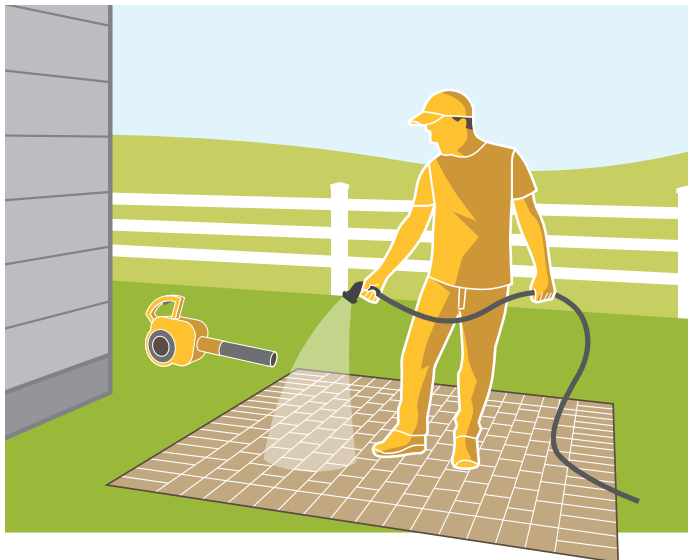
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**STEP 9**

**CLEAN THE SURFACE OF THE PAVERS**

Once you are done spreading the polymeric sand into the gaps, use a leaf blower to blow the fine dust off the surface of your patio. (You want to make sure you sweep it off well first or you will generate a large dust cloud!) **DO NOT WASH IT OFF WITH WATER! THAT COMES LATER.** If the patio is not free of polymeric sand on the surface of the pavers, you may see a film/haze on the pavers once you follow step 9.

Once the surface of the patio is completely clean, follow the instructions for wetting on the packaging of the polymeric sand. This will entail lightly spraying the joint sand with water several times which will activate the polymer that hardens the sand.



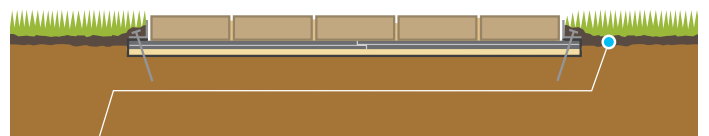
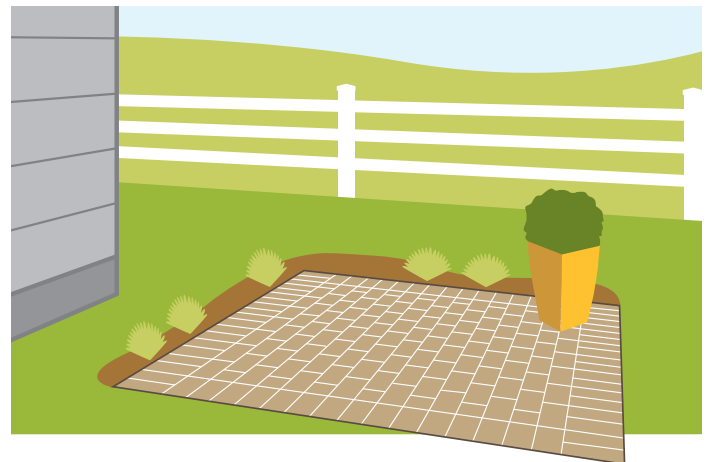
Paver Patio

**STEP 10**

**BACKFILL & FINISH NEW PATIO DESIGN**

Since your new patio is by nature of a higher elevation than your old concrete slab you must address the now exposed edge. There are a few ways to do so.

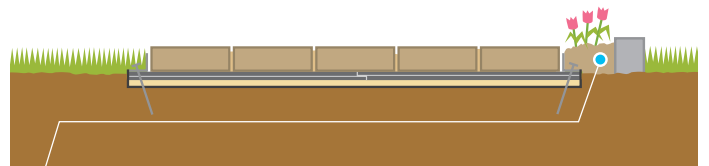
The first is to back fill the area with topsoil that slowly tapers away from the patio. You can then lay sod, plant grass seed in the top soil, add mulch or decorative rock and have a finished yard right up to your new patio.



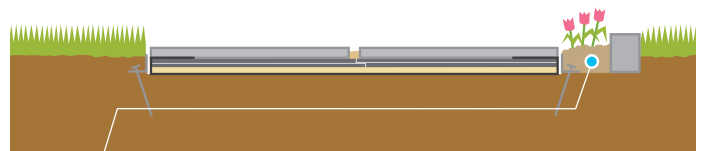
**TOP SOIL OR GARDEN SOIL**

The second option is to install a short retaining or edger stone some distance from the edge of your patio and install mulch in the area in-between to use as a planting bed to further enhance your project.

**FINAL STEPS TO FINISH YOUR PROJECT**



**Paving Stones:** add sod/grass, mulch or decorative Stone/Rock



**Porcelain Tile:** add sod/grass, mulch or decorative stone/rock



**Need help?**

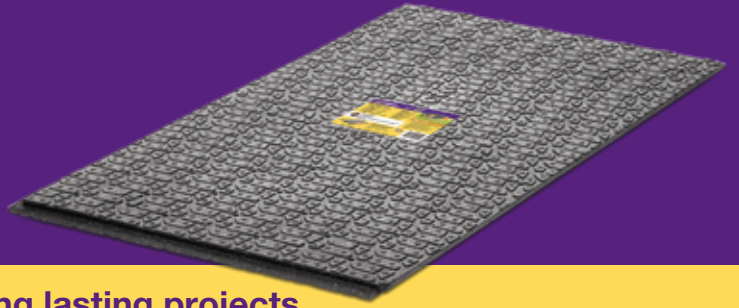
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## CONCRETE OVERLAY



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**HOW TO INSTALL PATIOS AND WALKWAYS**

Concrete Overlay – (with and without expanding project size)  
 Pavers, Patio Stones, Porcelain Tiles, Rubber Mats  
 \*Natural Flagstone, Wet Cast\*

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**STEP 1**

**PREPARING YOUR CONCRETE OVERLAY WITH EXPANDED PROJECT AREA**

Most commonly this is removing a grass area that is around your current concrete patio. Determine how much to excavate using the example below. Remove the grass to desired depth (skim rather than dig deep) from the surface of your current concrete slab for the area of your extended patio.



**MATERIAL REMOVAL GUIDE**

**Tim's Tip:**

The total project depth along the concrete area will be 1/2" sand (hand tamped, as the sand will need to be the same height as the concrete area.

How deep you need to dig is determined by adding the thickness of the following components:

**NOTE: For expanded area only.** Only panels are needed for concrete overlay

<b>EXAMPLE</b>	<b>Approx. Thickness</b>
Leveling Sand on Fabric	1/2 Inch (hand tamp)
Paving Stone Thickness*	N/A as top of expanded area will match top of concrete
Brock PaverBase	N/A as top of ground will match top of concrete
Dig out this many inches below your current level	Approx. 1/2 Inch

\*will depend on the Paving Stones you select.

**STEP 2**

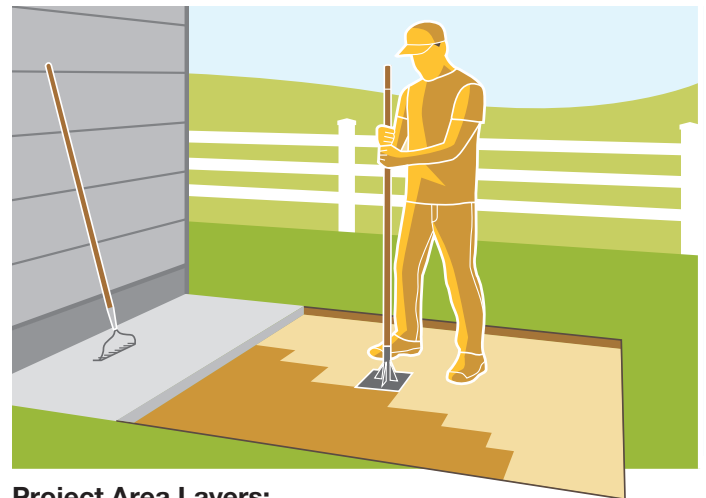
**LEVEL AND COMPACT THE BASE**

Using a hard rake and/or shovel, compact and level the area and make sure it follows the slope of the concrete pad. The ground should be tightly compacted using a hand tamper or plate compactor. The slope should be about 1/4" per one foot of distance. It is helpful to pull a string line so you can check your slope. To run a string line, attach a string to a fixed point on the house side about 3" above the surface of the patio, and pull it tight toward the outside edge of your new patio area. Attach the other end to a landscape stake in the ground making sure the string is tight. Use a level and ruler to create the desired slope. For example, the patio should slope 2.5" over a 10 foot distance (Diagram below). This will ensure that the patio moves water away from the house.

**Tim's Tip:**

Use along straight edge or side of a 2 x 4 (from high end to low end of you project) to fix the high and low spots.

The area should be as smooth as possible, making sure to get rid of high and low spots to within +/- 1/4". This is now your compacted base. Congratulations, the hard part is over!



**Project Area Layers:**

**Concrete Overlay - Layers (Top Down)**

- Paving Stones
- Landscape Fabric 3-4" Overlap
- Concrete Patio or Walkway

**Expanded Area - Layers (Top Down)**

- Paving Stones
- All Purpose Sand (hand tamped)
- Landscape Fabric
- Compacted Ground (flat with 1/4" slope/ft.)

**NOTE:** The expanded project area ground prep up to the hand tamped sand, should be even with the concrete patio or walkway.

**TIP:** For clay soils, use dirt/soil or base material to make it easier to compact the ground flat with 1/4" slope per foot

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\*Natural Flagstone, Wet Cast\*

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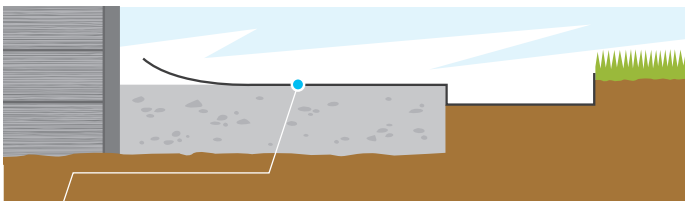
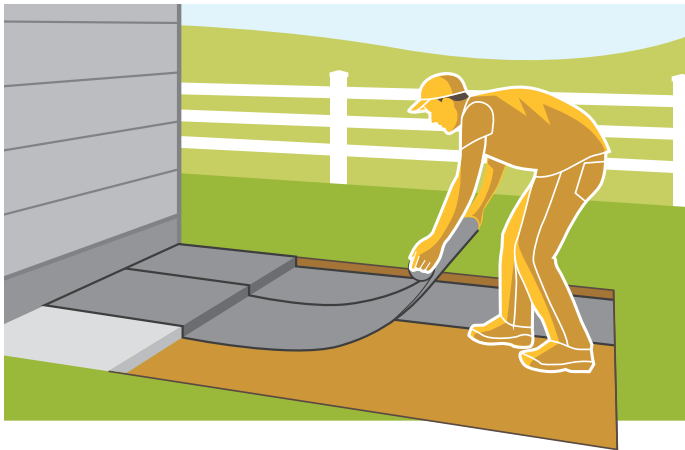
### STEP 3

#### ADD A LONG LASTING LANDSCAPE FABRIC

Next install long lasting landscape fabric (15, 20, 30 years, Lifetime) over the excavated and compacted area. Make sure the weed barrier fabric overlaps the concrete pad by at least 12 inches. Overlap the edges of the fabric by 4-6".

##### Tim's Tip:

Lay extra fabric on the sides. After you lay the panel or panels and paving stones, fold the fabric up then place edge restraints. This will ensure sand cannot leech out.



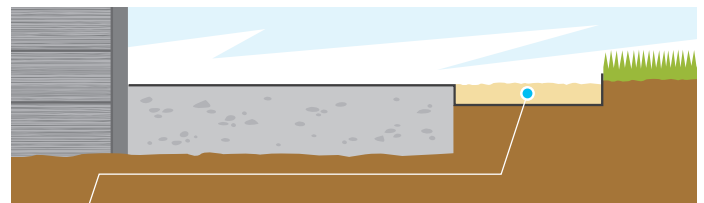
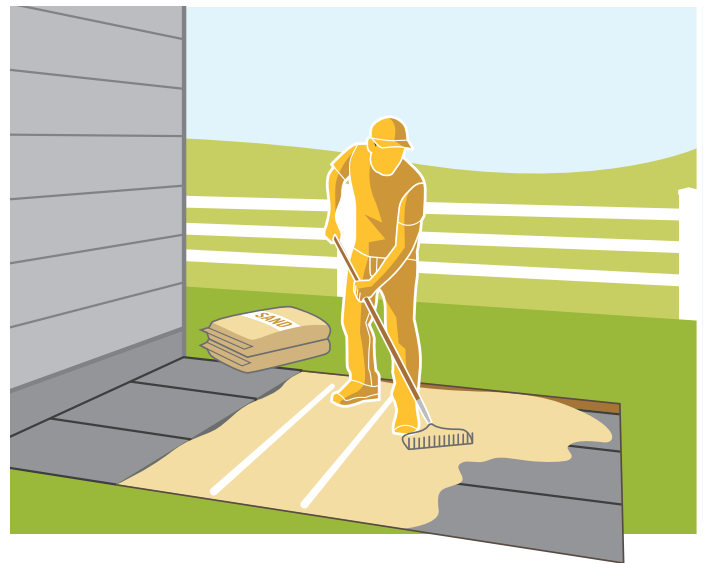
LANDSCAPE WEED FABRIC (BARRIER)

NOTE: Fabric holds in the sand, not for weeds.

### STEP 4

#### SPREAD A 1/2" LAYER OF LEVELING SAND

Lay two 1/2" pipes (or rebar) on top of the fabric over the ground in the same direction as your slope, high to low end (not on the concrete). Spread an even layer of sand over the pipes in your project area.



1/2" ALL PURPOSE LEVELING PAVER SAND (STEP 2 SAND)



Paver Patio with Rock Garden

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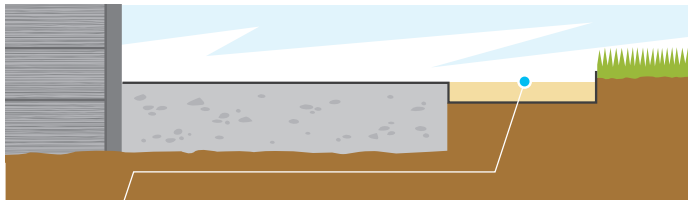
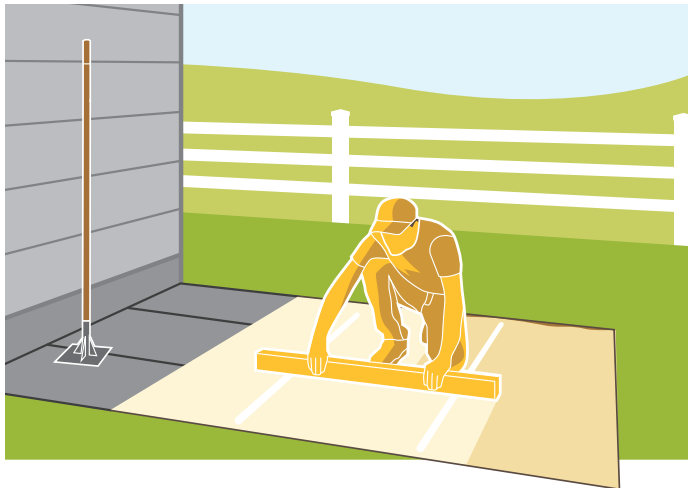
### STEP 5

#### SCREED THE SAND USING A BOARD

Using a standard 2x4 that is 6 feet long, screed the sand using the board along the pipe or Reba, maintaining your slope so watch your string line. Make sure the board you use is straight and true! Hand tamp the sand and recheck to make sure you do not have any high or low spots. Make sure that the sand is even with the top of the concrete. Do not use a plate compactor to compact the sand.

##### Tim's Tips:

- Remove the screed pipes before laying your paving stones
- Use long straight edge or side of 2 x 4 same (as step 2) after you hand tamp the sand.



LEVELING SAND SCREED



Paver Patio

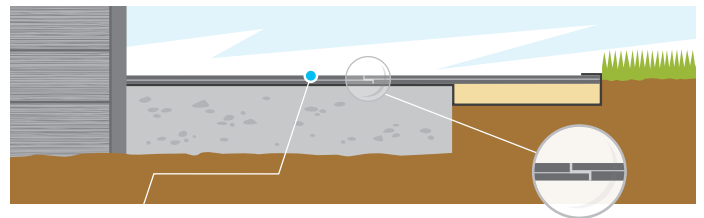
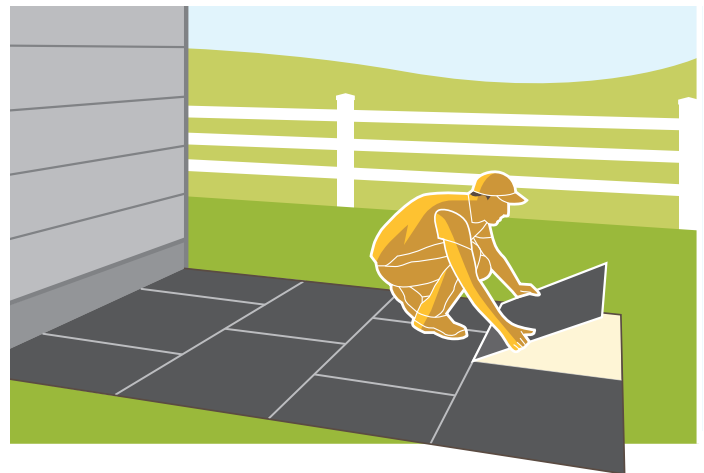
### STEP 6

#### INSTALL BROCK PAVERBASE PANELS

Starting against a straight edge of the patio, lay the Brock panels, ensuring that the side flanges overlap. Ideally, lay them in a “brick-like” pattern (illustration below). This will ensure stability of the panels when you lay the pavers. To off set the panels (for the second row), cut a panel in half, using a utility knife, and start with the cut panel edge on the outside (where the edge restraint will be) so the panel flange/lips (tongue and groove) can be used. Use the bottom half panel to finish the end of the next row.

Trim any curves or along edges using a utility knife. Place any extra scrap pieces of Brock PaverBase in your recycling bin.

**TIP:** Fold the fabric up and or up and over the panel. This will make sure the sand cannot leech out in time.



BROCK PAVERBASE PANELS



Paver Porch

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### STEP 7

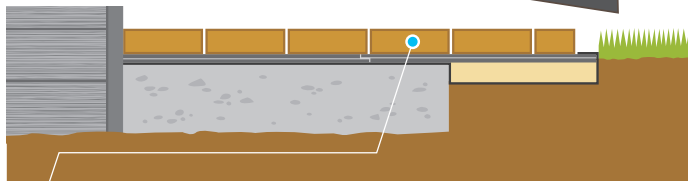
#### INSTALL THE PATIO PAVERS

Now the fun really begins! Lay the pavers directly on the Brock PaverBase panels. Yes you can walk on the panels. You can slide pavers into place. Do not worry if you make a mistake with your pattern, you can correct without ruining your base. If you are trying to do a straight line, and the line gets crooked, hammer the row back in place using a rubber mallet. Do not use the edges of the panels or the pattern on the panels to try to line up your pavers. Use a string line to ensure straightness.

##### Tim's Tip:

Make sure the panels are tight/together when laying your paving stones.

- If you are using multiple size paving stones, don't worry if you lay the pattern incorrectly. You can move pavers and fix when using the panels.



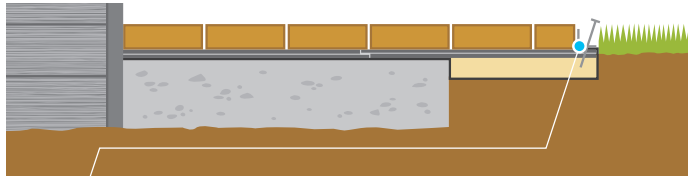
#### PAVERS, PATIO STONES OR PORCELAIN TILES

##### INSTALL EDGE RESTRAINT

Once your patio is complete and the pavers are tightly together you will want to hold the perimeter in place to keep it from moving. To do this simply lay pieces of edge restraint directly on top of the Brock panels. Then hammer 8-10" landscape spikes through the Brock PaverBase panel making sure to keep the edge restraint tight against the pavers.

##### Tim's Tip:

For 3/4" Porcelain Tiles and thin paving stones, you can lay the edge restraints along the side of the paving stones and panels, to avoid tripping or seeing edge restraint.



##### EDGE RESTRAINT AND SPIKES

### STEP 8

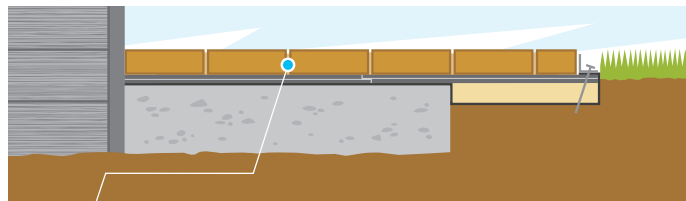
#### SWEEP IN REGULAR OR POLYMERIC SAND

Using a broom, spread sand over the patio and into the gaps between the pavers. Spread over small areas before moving onto the next one. Go back and forth over the gaps until no more sand will fit. Once you have swept the sand into the paver joints, a hand tamp should be used over the entire paver area in order to "vibrate" the sand further into the joints.

This tamping procedure will insure that the maximum amount of sand is holding the pavers in place. (DO NOT USE A PLATE COMPACTOR TO VIBRATE THE PAVERS!) Continue to add sand until the joints are full.

##### Tim's Tip:

If your paving stones are smooth sided, have no bumps/spacer bars, you do not need to add sand. Do not leave a gap as paving stone should always be laid together tightly.



#### POLYMERIC SAND

**NOTE:** There are two types of joint sand you can use. Polymeric joint sand will essentially harden like concrete between your paving stones so it is permanent. Polymeric sand has several advantages: It is stable, so the sand won't end up on the top of your pavers; it allows you to power wash your patio without displacing the joint sand; it gives the patio a cleaner, more finished look. Alternatively you can use traditional joint sand, but you will need to re apply it each year. For the purposes of these instructions we will refer to Polymeric sand since it requires a few extra steps than plain joint sand.

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## HOW TO INSTALL PATIOS AND WALKWAYS

Concrete Overlay – (with and without expanding project size)  
Pavers, Patio Stones, Porcelain Tiles, Rubber Mats  
\*Natural Flagstone, Wet Cast\*

**THE BASE is the most important step for long lasting projects.**

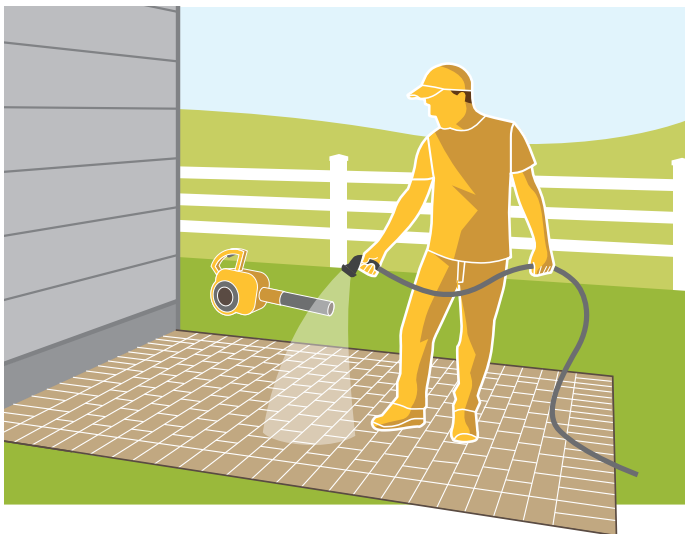
### STEP 9

#### CLEAN THE SURFACE OF THE PAVERS

**MAKE SURE THE SURFACE OF THE PAVERS IS CLEAN!**

Once you are done spreading the polymeric sand into the gaps, use a leaf blower to blow the fine dust off the surface of your patio. (You want to make sure you sweep it off well first or you will generate a large dust cloud!) **DO NOT WASH IT OFF WITH WATER!** THAT COMES LATER. If the patio is not free of polymeric sand on the surface of the pavers, you may see a film/haze on the pavers once you follow step 9.

Once the surface of the patio is completely clean, follow the instructions for wetting on the packaging of the polymeric sand. This will entail lightly spraying the joint sand with water several times which will activate the polymer that hardens the sand.



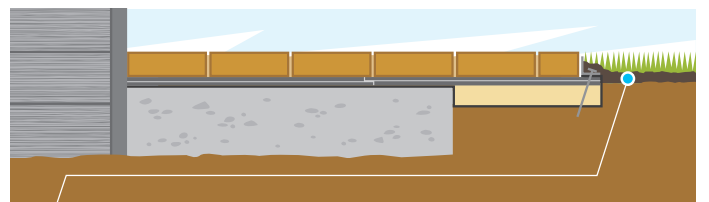
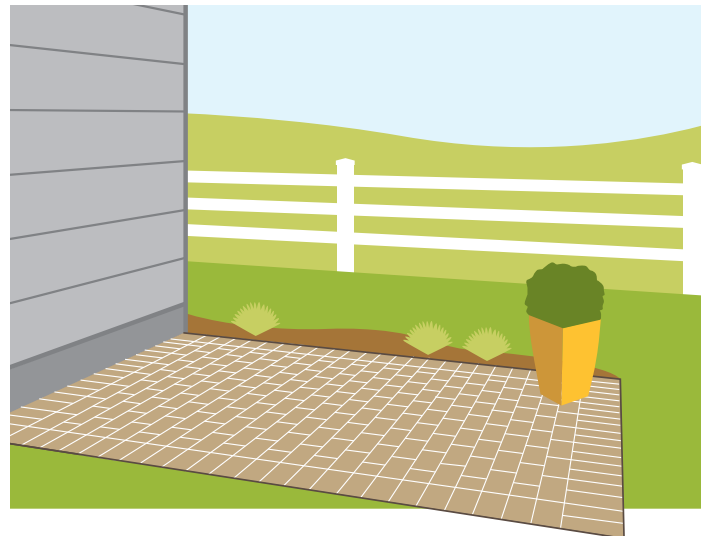
Paver Walkway

### STEP 10

#### BACKFILL & FINISH NEW PATIO DESIGN

Since your new patio is by nature of a higher elevation than your old concrete slab you must address the now exposed edge. There are a few ways to do so.

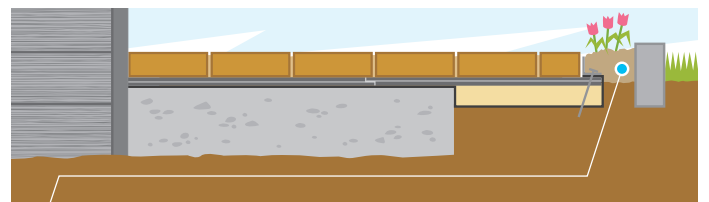
The first is to back fill the area with topsoil that slowly tapers away from the patio. You can then plant grass seed in the top soil, add mulch or decorative rock and have a finished yard right up to your new patio.



#### TOP SOIL OR GARDEN SOIL

The second option is to install a short retaining or edger stone some distance from the edge of your patio and install mulch in the area in-between to use as a planting bed to further enhance you project.

FINAL IMAGE SHOWING THE EXPANDED PATIO WITH ALL THE COMPONENTS OF PATIO PAVERS OVER A CONCRETE SLAB.



#### MULCH OR LANDSCAPE ROCK



#### Need help?

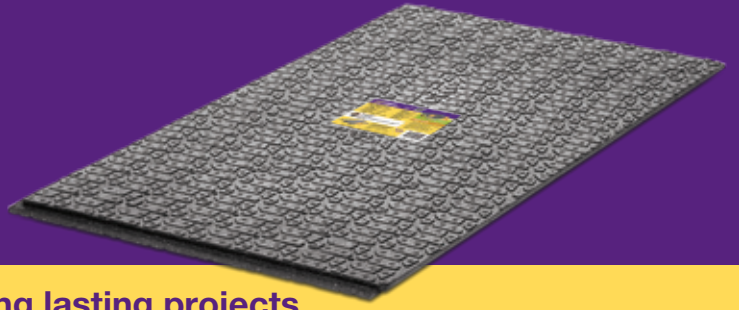
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For All Patios, Walkways, Stackable Sitting Walls, Pillars, Artificial Turf, Athletic Courts, Sheds and More



**THE BASE is the most important step for long lasting projects.**

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## NATURAL FLAGSTONE

Different Thickness Stones, Wet Cast Stones



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## HOW TO INSTALL PATIOS AND WALKWAYS

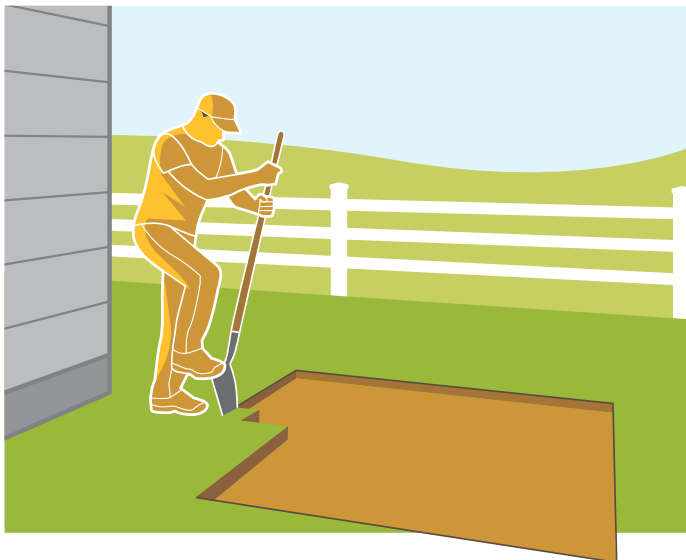
Natural Flagstone – (different thickness stones)  
Wet Cast & Hand Made Stones

**THE BASE** is the most important step for long lasting projects.

### STEP 1

#### PREPARING YOUR PROJECT AREA

Most commonly this is removing a grass area that is around your current concrete patio. You will incorporate this area into your new larger outdoor patio design. You will need to excavate about 1" deep from the surface of your current concrete slab for the area of your extended patio.



#### MATERIAL REMOVAL GUIDE

##### Tim's Tip:

The total project area will be approx. the thickness of your thickest Natural Flagstone paving stone + 1".

How deep you need to dig is determined by adding the thickness of the following components:

EXAMPLE	Approx. Thickness
Leveling Sand on Fabric	1/2 Inch (hand tamp)
Stone Thickness*	+ 1 3/4 Inches
Brock PaverBase	+ Approx. 3/4 Inch
Leveling Sand	1/2 Inch
Dig out this many inches below your current level	= Approx. 3 1/2 Inches

\*will depend on the Natural Flagstone you select.

### STEP 2

#### LEVEL AND COMPACT THE BASE

If you are building a patio close to or attached to the house, use a hard rake and/or shovel, compact and level the area with appropriate slope. The base material (most commonly the ground) should be tightly compacted using a hand tamper or plate compactor. The slope of a patio should be about 1/4" per one foot of distance in order to let water flow off the surface but keep furniture stable and level. It is helpful to pull a string line so you can check your slope.

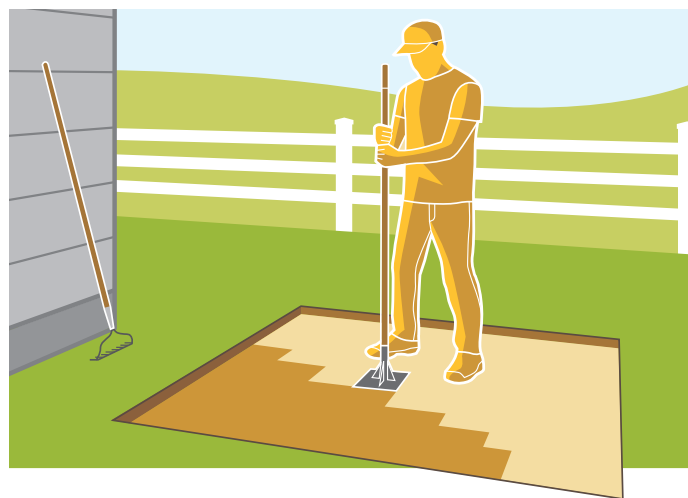
To run a string line, put two landscape stakes in the ground. Tie a piece of string to one of them, and then pull it tight to the other. Use a level and ruler to create the desired slope. For example, the patio should slope 2.5" over a 10 foot distance. This will ensure that rainfall flows off the patio.

##### Tim's Tip:

Use along straight edge or side of a 2 x 4 (from high end to low end of you project) to fix the high and low spots.

The area should be properly compacted and as smooth as possible, making sure to get rid of high and low spots to within +/- 1/4". This is now your flat compacted ground with 1/4" slope per foot. Congratulations, the hard part is over!

**TIP:** For clay soils, use dirt/soil or base material to make it easier to compact the ground flat with 1/4" slope per foot.



Natural Flagstone Patio

# BROCK PaverBase

For All Patios, Walkways, Stackable Sitting Walls, Pillars, Artificial Turf, Athletic Courts, Sheds and More

## HOW TO INSTALL PATIOS AND WALKWAYS

Natural Flagstone – (different thickness stones)  
Wet Cast & Hand Made Stones

**THE BASE** is the most important step for long lasting projects.

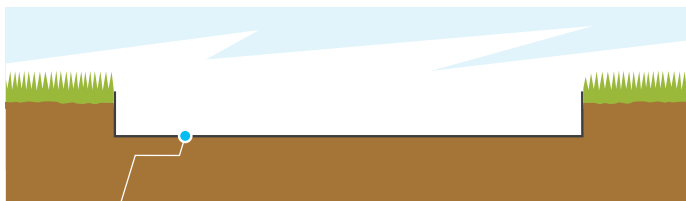
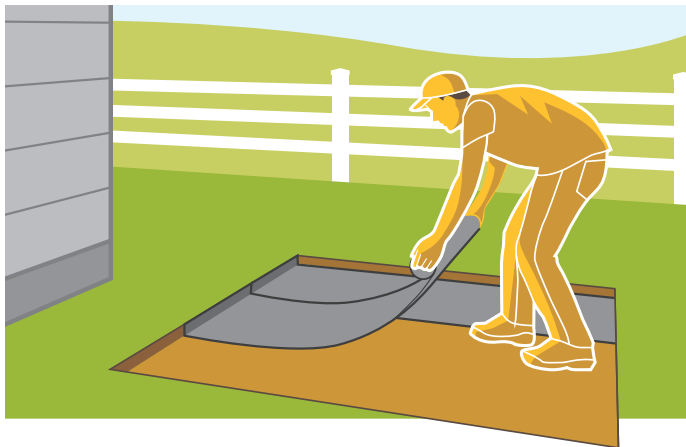
### STEP 3

#### ADD A LONG LASTING LANDSCAPE FABRIC

Next install long lasting landscape fabric (15, 20, 30 years, Lifetime) over the excavated and compacted area. Overlap the edges of the fabric by 4-6".

##### Tim's Tip:

Lay extra fabric on the sides. After you lay the panel or panels and paving stones, fold the fabric up then place edge restraints. This will ensure sand cannot leech out.



LANDSCAPE WEED FABRIC (BARRIER)

**NOTE:** Fabric holds in the sand, not for weeds.

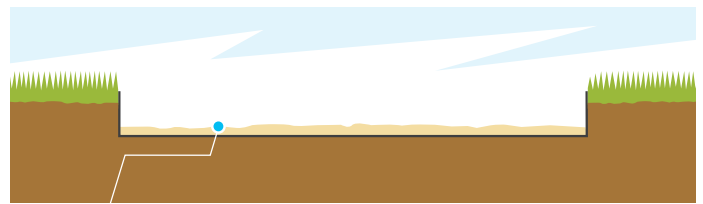
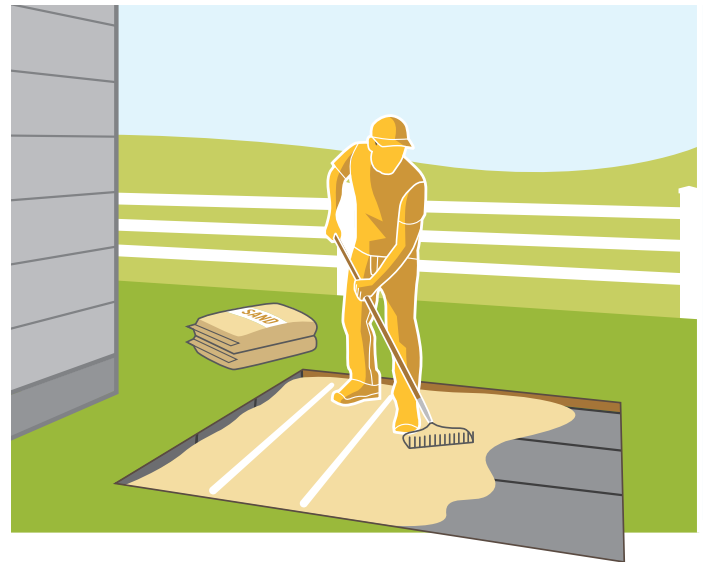


Natural Flagstone Walkway

### STEP 4

#### SPREAD A 1/2" LAYER OF LEVELING SAND

Lay two 1/2" pipes (or rebar) on top of the fabric over the ground in the same direction as your slope, high to low end. Spread an even layer of sand over the pipes in your project area.



1/2" ALL PURPOSE LEVELING PAVER SAND



Natural Flagstone Rounded Patio



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**HOW TO INSTALL PATIOS AND WALKWAYS**

Natural Flagstone – (different thickness stones)  
 Wet Cast & Hand Made Stones

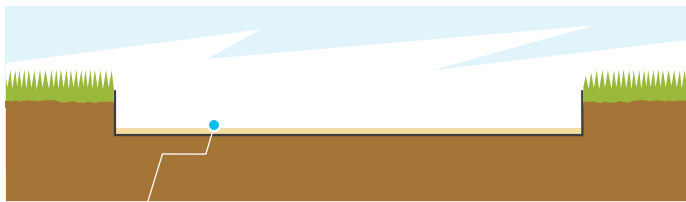
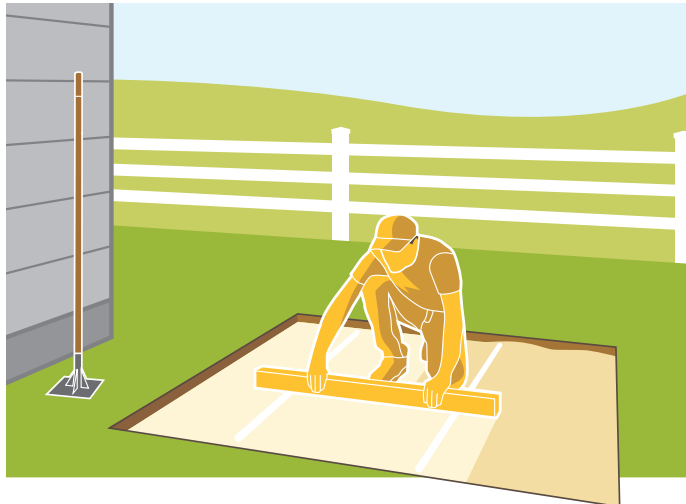
**THE BASE is the most important step for long lasting projects.**

**STEP 5**  
**SCREED THE SAND USING A BOARD**

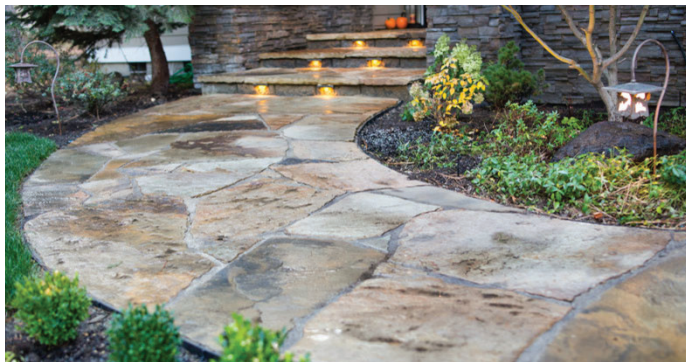
Using a standard 2x4 that is 6 feet long, screed the sand using the board along the pipe or rebar, maintaining your slope so watch your string line. Make sure the board you use is straight and true! Hand tamp the sand and recheck to make sure you do not have any high or low spots. Do not use a plate compactor to compact the sand.

**Tim's Tips:**

- Remove the screed pipes before laying your panels.
- Use long straight edge or side of 2 x 4 same (as step 2) after you hand tamp the sand.



1/2" LEVELING SAND SCREED



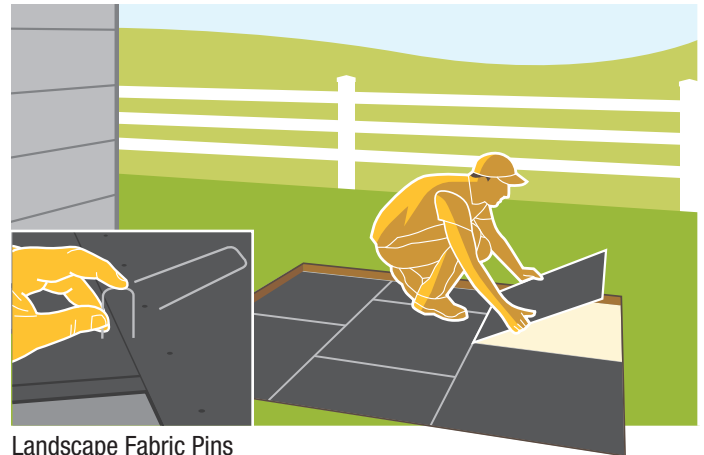
Natural Flagstone Walkway and Steps

**STEP 6**  
**INSTALL BROCK PAVERBASE PANELS**

Starting against a straight edge of the patio, lay the Brock panels, ensuring that the side flanges overlap. Ideally, lay them in a "brick-like" pattern (illustration below). This will ensure stability of the panels when you lay the pavers. To off set the panels (for the second row), cut a panel in half, using a utility knife, and start with the cut panel edge on the outside (where the edge restraint will be) so the panel flange/lips (tongue and groove) can be used. Use the bottom half panel to finish the end of the next row.

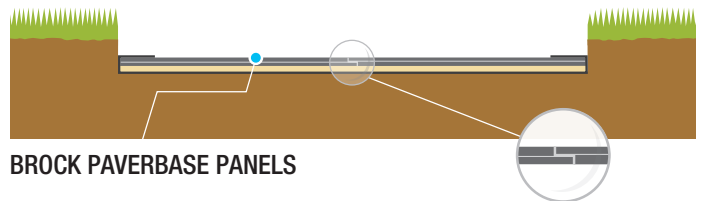
Trim any curves or along edges using a utility knife. Place any extra scrap pieces of Brock PaverBase in your recycling bin.

**TIP:** Fold the fabric up and or up and over the panel to insure the sand cannot leech out in time.



**Landscape Fabric Pins**

To keep panels tight before laying additional layer of fabric.



**BROCK PAVERBASE PANELS**

**NOTE:** Use landscape fabric pins to hold panel tight before laying second layer of fabric.



Natural Flagstone Walkway Courtyard

# BROCK PaverBase

For All Patios, Walkways, Stackable Sitting Walls, Pillars, Artificial Turf, Athletic Courts, Sheds and More

## HOW TO INSTALL PATIOS AND WALKWAYS

Natural Flagstone – (different thickness stones)  
Wet Cast & Hand Made Stones

**THE BASE is the most important step for long lasting projects.**

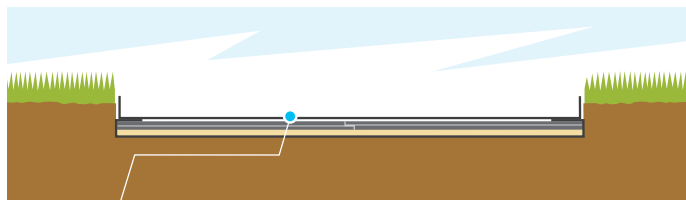
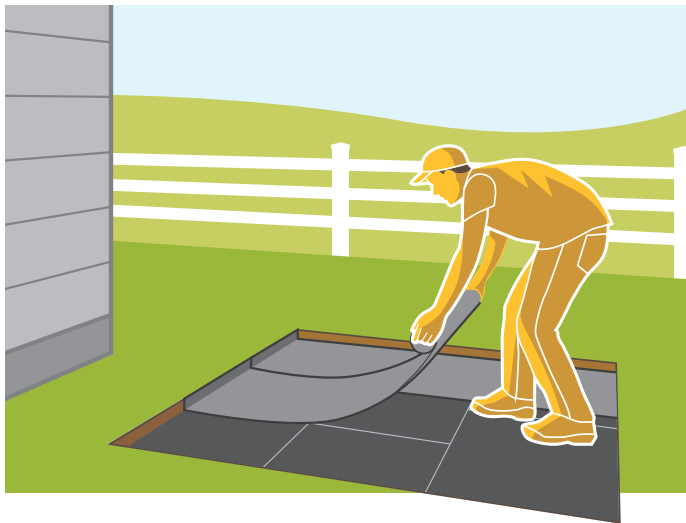
### STEP 7

#### ADD 2ND LAYER OF LONG LASTING LANDSCAPE FABRIC

Once the Brock PaverBase is installed, place a second layer of weed barrier fabric on top of the panels to stop any sand migration. Yes you can walk on the panels. Overlap the edges of the fabric by 4-6".

##### Tim's Tip:

Lay extra fabric on the sides. After you lay the panel or panels and paving stones, fold the fabric up then place edge restraints. This will ensure sand cannot leech out.



LANDSCAPE WEED FABRIC (BARRIER)

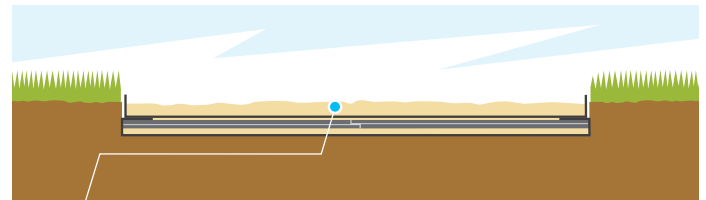
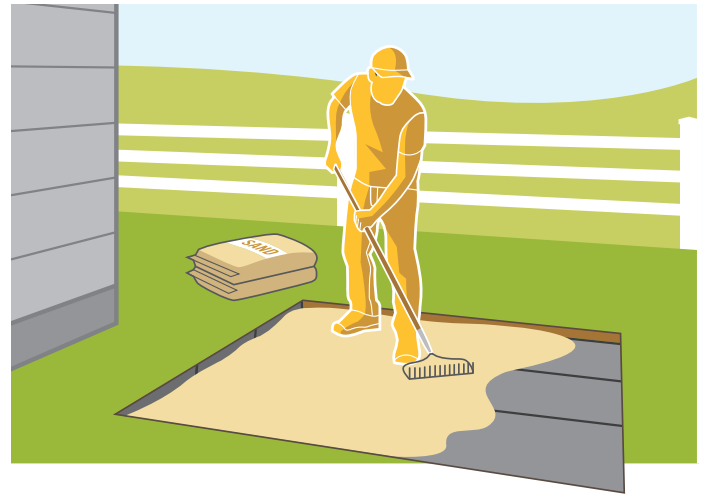


Natural Flagstone Round Patio and Firepit

### STEP 8

#### SPREAD A LAYER OF LEVELING SAND

Then add a 1/2" thick layer of bedding sand on top of the fabric. This is the layer of sand that will make up any differences in thickness that your stones may have, and allow you to get the stones to sit level, as they may not be perfectly flat on the bottom. Lay/Seed the thicker stones in the middle, sides and corners. You can run a string line across the top. This will be the project height. Then seed the thinner stones using sand needed to raise for needed height.



1/2" ALL PURPOSE LEVELING PAVER SAND



Natural Flagstone Patio Deck

# BROCK **PaverBase**

For All Patios, Walkways, Stackable Sitting Walls, Pillars, Artificial Turf, Athletic Courts, Sheds and More

## HOW TO INSTALL PATIOS AND WALKWAYS

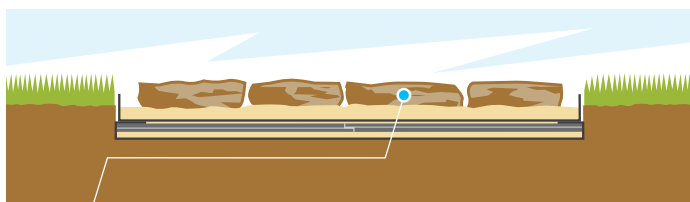
Natural Flagstone – (different thickness stones)  
Wet Cast & Hand Made Stones

**THE BASE** is the most important step for long lasting projects.

### STEP 9

#### INSTALL THE NATURAL STONE

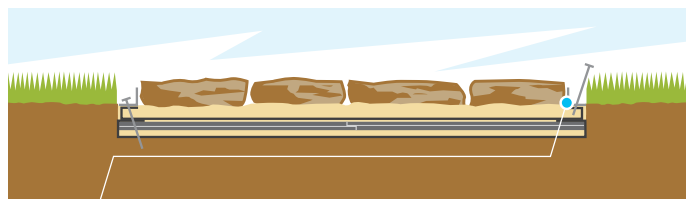
This is the fun part! Laying natural stone is very simple. Before putting the stone onto the project lay them out in the yard and try to find the pieces that fit well together with the size joint you like. There is a slight art to figuring out which stone fits best where, but that is what makes no two patios the same. Once you have an idea of where you want them. Take the ends of the geotextile that you let long and simply fold them over on top of the sand to make the whole system sealed so you are sure nothing will move. Then install the stones into the bedding sand. If you find an area with a stone that is very thin and there is not enough bedding sand, simply add more underneath it until it is level and positioned where you want it. The same holds true for paving stones that have different heights. Simply brush some of the sand away until it lays as you want it. Try to keep the bedding sand on the bottom of the stones and don't let it work to far up between them as we will be filling the joints with a polymeric sand made specifically for extra large gaps later to hold it all together. Make sure to leave 2-3" of exposed sand around the outside of your project to later add edge restraint.



NATURAL STONES, FLAGSTONES OR WET CAST STONES

#### INSTALL EDGE RESTRAINT

Once your stones are installed it is important to hold the perimeter of your project in place. Simply place edge restraint on top of the sand and the geotextile fabric that we folded over earlier. Then install using 8-10" landscape spikes. You may feel free to bend the edge restraint to follow the natural outline of the stones to give your patio a more natural feeling.



#### EDGE RESTRAINTS AND SPIKES

Fold fabric up before edge restraint and spikes.



Natural Flagstone Patio, Fire Pit and Sitting Wall

#### TIPS:

- Install the fire pit first and build your patio around it.
- If you build on top of your patio, fill in the fire pit at least 50% with sand and lava rock to insulate the heat from the stones and panel.

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**HOW TO INSTALL PATIOS AND WALKWAYS**

Natural Flagstone – (different thickness stones)  
 Wet Cast & Hand Made Stones

**THE BASE is the most important step for long lasting projects.**

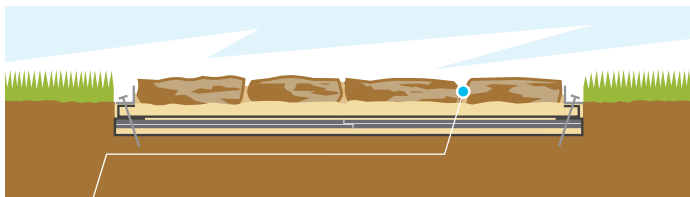
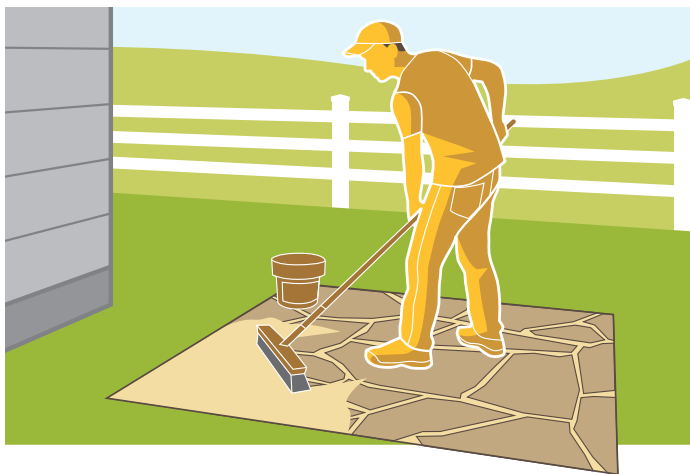
**STEP 10**

**FINISH WITH REGULAR OR POLYMERIC JOINT SAND**

Using a broom, spread sand over the patio and into the gaps between the pavers. Spread over small areas before moving onto the next one. Go back and forth over the gaps until no more sand will fit.

**Tim's Tip:**

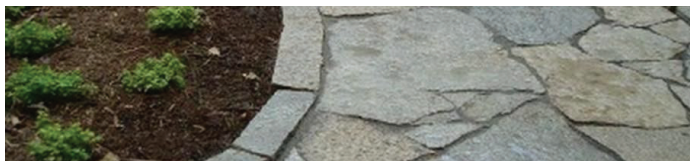
Use polymeric sand that exceeds at least double the size of your largest gap. Many polymeric sand are made for smaller paving stone gaps, not large Natural Flagstone gaps.



**POLYMERIC SAND**

**NOTE:**

There are two types of joint sand. Use Polymeric Sand that far exceeds your stones gaps. Polymeric sand will essentially harden like concrete between your paving stones so it is permanent. Polymeric sand has several advantages: It is stable, so the sand won't end up on the top of your pavers; It allows you to power wash your patio without displacing the joint sand; It gives the patio a cleaner, more finished look. Be sure to use a Polymeric sand or even a sandy soil that will allow you to plant ground cover between the stones that is rated for the widest joint on your project. Poly sand is an alternative is traditional joint sand. For the purposes of these instructions we will refer to Polymeric sand since it requires a few extra steps than plain joint sand.



Natural Flagstone Walkway

**STEP 11**

**CLEAN SURFACE OF THE NATURAL STONE**

Once you are done spreading the polymeric sand into the gaps, use a leaf blower to blow the fine dust off the surface of your patio. (You want to make sure you sweep it off well first or you will generate a large dust cloud!).



**NOTE:**

DO NOT WASH IT OFF WITH WATER! THAT COMES LATER. If the natural stone is not free of polymeric sand on the surface, you may see a film/haze on the stones once you follow step the next step.

**PROPER WETTING WHEN USING POLYMERIC SAND.**

Once the surface of the patio is completely clean, follow the instructions for wetting on the packaging of the polymeric sand. This will entail lightly spraying the joint sand with water, which will activate the polymer that hardens the sand.



Natural Flagstone Round Patio



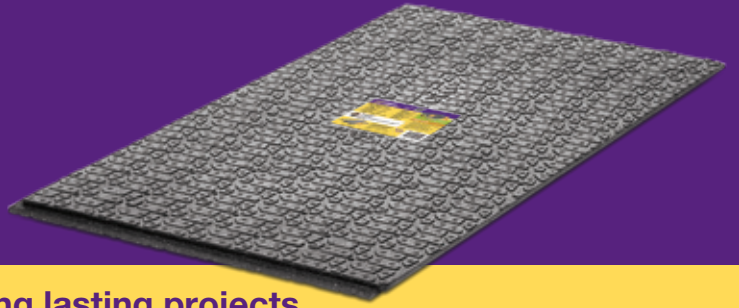
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**THE BASE** is the most important step for long lasting projects.

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## STACKABLE RETAINING WALL

Pillars, Sitting Walls, Benches, Grill, Mailbox



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**HOW TO INSTALL  
 STACKABLE RETAINING WALLS**

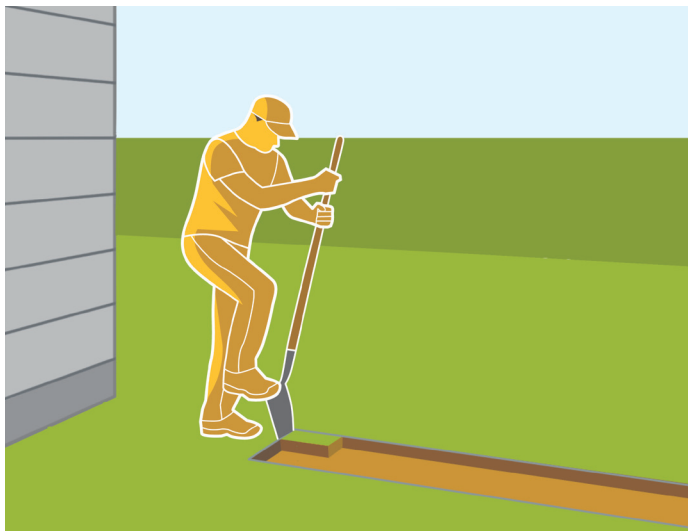
Pillars, Sitting Walls, Benches, Grills, Mailbox

**THE BASE is the most important step for long lasting projects.**

**STEP 1**

**PREPARING YOUR PROJECT AREA**

Determine how much to excavate using the example below. Remove the grass to desired depth (skim rather than dig deep) and at least double to depth of your stackable wall unit (front to back).



**MATERIAL REMOVAL GUIDE**

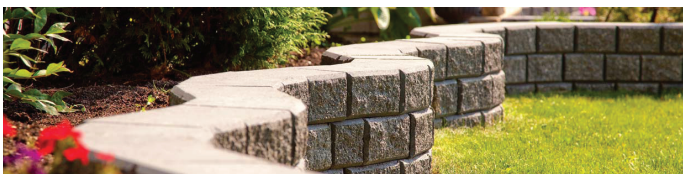
**Tim's Tip:**

How much to remove? The total project depth will be approx. the thickness of your stackable wall unit +1"

How deep you need to dig is determined by adding the thickness of the following components:

<b>EXAMPLE</b>	<b>Approx. Thickness</b>
Leveling Sand on Fabric	1/2 Inch (hand tamp)
Wall (Thickness/Height)*	+ Approx. 4 Inches
Brock PaverBase	+ Approx. 3/4 Inch
Dig out this many inches below your current level	= Approx. 5-1/4 Inches

\*will depend on the Wall Unit you select.



Garden Wall

**STEP 2**

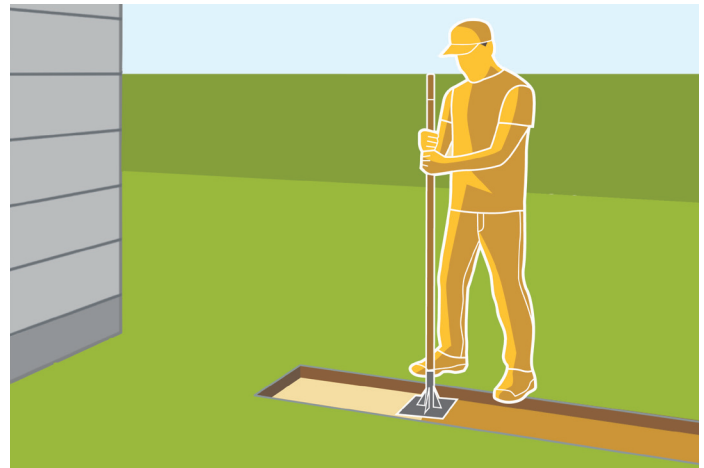
**LEVEL AND COMPACT THE BASE**

Using a hard rake and/or shovel, Compact the area level front to back and side to side. The ground should be tightly compacted using a hand tamper or plate compactor, depending on the width of your trench. Use a straight edge to see and fix the high and low spots with a rake and recompact until level. You do not want to use sand to fix the low spots. Use a level and check the trench - front to back and side to side making sure the ground is level.

**Tim's Tip:**

For clay soils, use a material that compacts well, like soil/dirt or some bag base to make it easier to compact and level.

The area should be as smooth as possible, making sure to get rid of high and low spots to within +/- 1/4". This is now your flat compacted ground with 1/4" slope per foot. Congratulations, the hard part is over!



**TIP:** For clay soils, use dirt/soil or base material to make it easier to compact the ground flat with 1/4" slope per foot.



Sitting Wall and Bench



Pillar and Sitting Wall

**NOTE:** Built directly on patios and walkways, just stack wall units and use concrete adhesive on all layers.

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## HOW TO INSTALL STACKABLE RETAINING WALLS

Pillars, Sitting Walls, Benches, Grills, Mailbox

**THE BASE is the most important step for long lasting projects.**

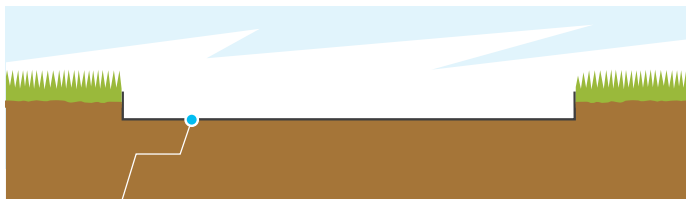
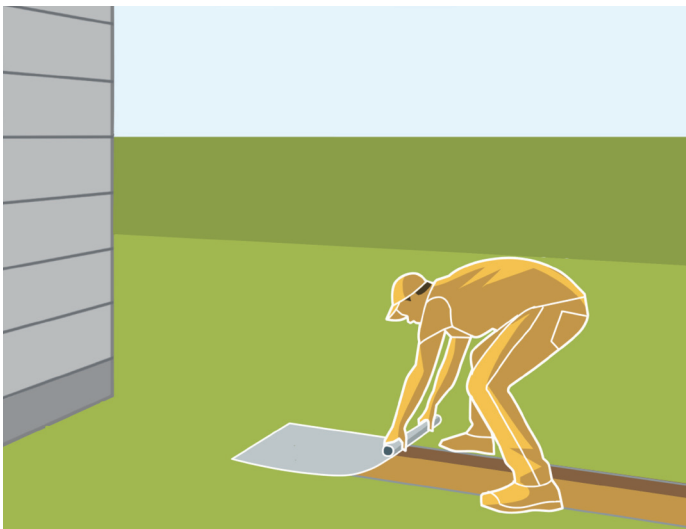
### STEP 3

#### ADD A LONG LASTING LANDSCAPE FABRIC

Next install long lasting landscape fabric (15, 20, 30 years, Lifetime) over the excavated and compacted area. Leave extra fabric on the sides and ends.

**Tim's Tip:**

Lay extra fabric on the sides. After you lay the panel or panels and paving stones, fold the fabric up then place edge restraints. This will ensure sand cannot leech out.



LANDSCAPE WEED FABRIC (BARRIER)

**NOTE:** Fabric holds in the sand, not for weeds.

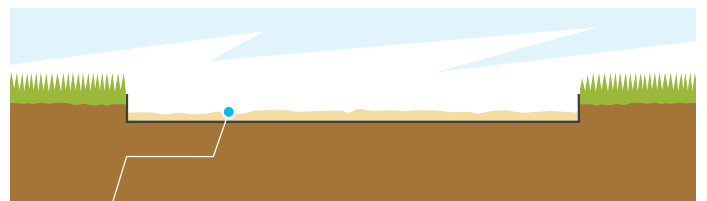
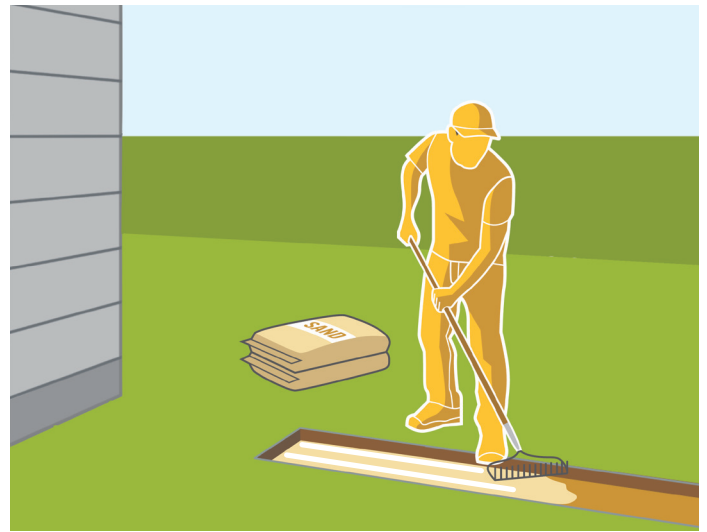


Garden- Sitting Wall and Pillars

### STEP 4

#### SPREAD A 1/2" LAYER OF LEVELING SAND

Lay 2 1/2" pipes or rebar (outside diameter) on top of the fabric inside the trench. Spread all purpose leveling paver sand (also called step.



1/2" ALL PURPOSE LEVELING PAVER SAND (STEP 2 SAND)



Garden Wall



# PaverBase

For All Patios, Walkways, Stackable Sitting Walls, Pillars, Artificial Turf, Athletic Courts, Sheds and More

## HOW TO INSTALL STACKABLE RETAINING WALLS

Pillars, Sitting Walls, Benches, Grills, Mailbox

**THE BASE is the most important step for long lasting projects.**

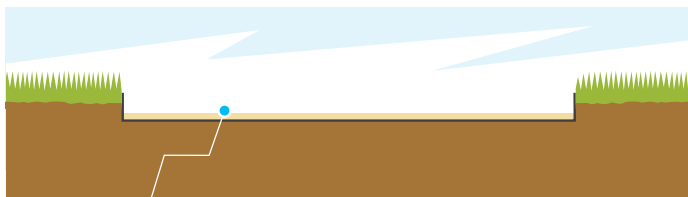
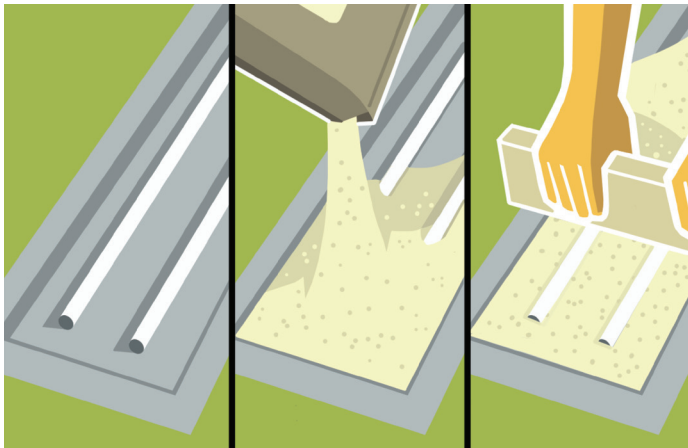
### STEP 5

#### SCREED THE SAND USING A BOARD

Using a short 2x4 slightly smaller than the trench width, screed the sand using the board over the pipes or rebar, keeping the sand even. Move the pipes along the trench as you go. Remove the pipes and hand tamp the sand. Use a straight edge or level to make sure you still do not have any low spot.

##### Tim's Tips:

- If you are building a short wall and your area is on a slope, start at the low end digging your trench. You may have multiple tiered wall areas and have more stacked wall units on the low end rows/courses than the high end. Keeping trench level at all times.
- Remove the screed pipes before laying your panels.



1/2" LEVELING SAND SCREED

### STEP 6

#### CUT PANELS, INSTALL BROCK PAVERBASE CUT PANELS

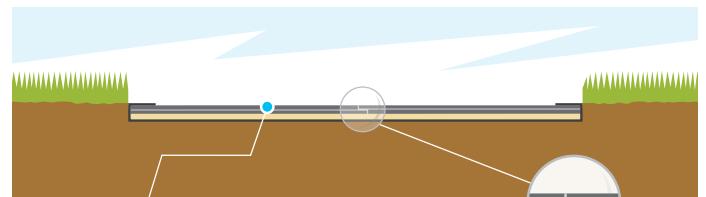
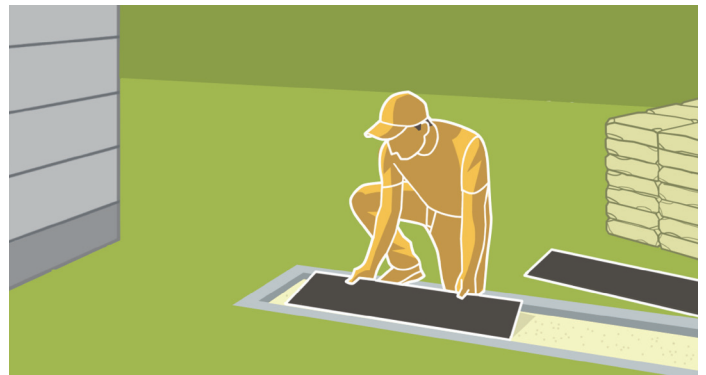
Stack the panel so the corner all match (tongue and groove or under and over). Then cut your panels long ways (36" length) using a level or straight edge and utility knife. The Panels should be wider than your stackable wall units by at least 2" to 3" on either side.

Starting at one end, lay your cut panels in the trench.

Trim any curves or along edges using a utility knife. Place any extra scrap pieces of Brock PaverBase in your recycling bin.

##### Tim's Tips:

Fold the extra landscape fabric up on all sides and backfill the dirt and compact. This will prevent the sand from leeching out.



BROCK PAVERBASE PANELS





# PaverBase

For All Patios, Walkways, Stackable Sitting Walls, Pillars, Artificial Turf, Athletic Courts, Sheds and More

## HOW TO INSTALL STACKABLE RETAINING WALLS

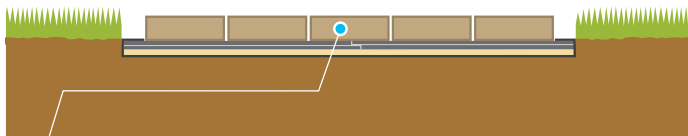
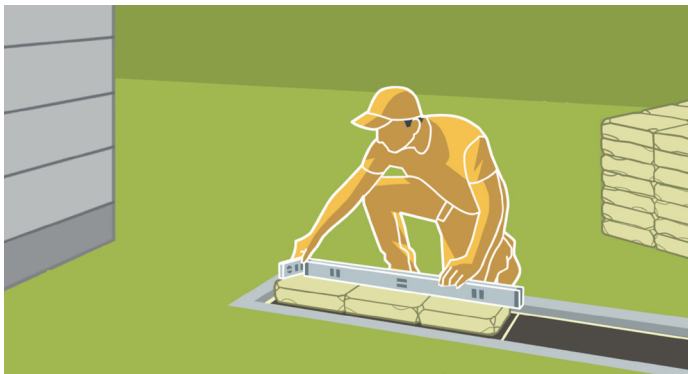
Pillars, Sitting Walls, Benches, Grills, Mailbox

**THE BASE is the most important step for long lasting projects.**

### STEP 7

#### INSTALL THE STACKABLE WALL UNITS

Now the fun really begins! Lay your stackable wall unit on the panel keeping extra panel (2" to 3") on the all sides. Use a level and rubber mallet if needed to check that the wall units are still level in all directions. Continue laying your wall units 1st layer/course.



**BACK FILL AROUND THE SIDES OF THE BURIED FIRST COURSE**

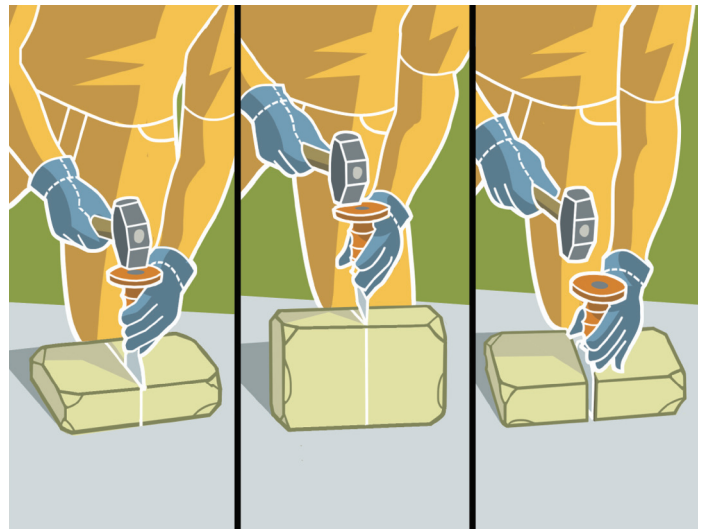


### STEP 8

#### SPLIT WALL UNITS

You will need a split wall unit to begin your 2nd row/course and all even layers (2, 4, 6). This will offset the units as needed.

Use safety glasses and gloves to split your wall units. Begin by scoring the wall unit on all sides using a chisel and sledge hammer. You are not trying to split the unit, just score (deep Scratch marks). Continue rotating the wall unit and scoring on all sides. The better you score the better split you will have. Keep rotating the wall unit on sides until split. Congrats, your did it!



Bench Wall



Two Pillars with Bench



# PaverBase

For All Patios, Walkways, Stackable Sitting Walls, Pillars, Artificial Turf, Athletic Courts, Sheds and More

## HOW TO INSTALL STACKABLE RETAINING WALLS

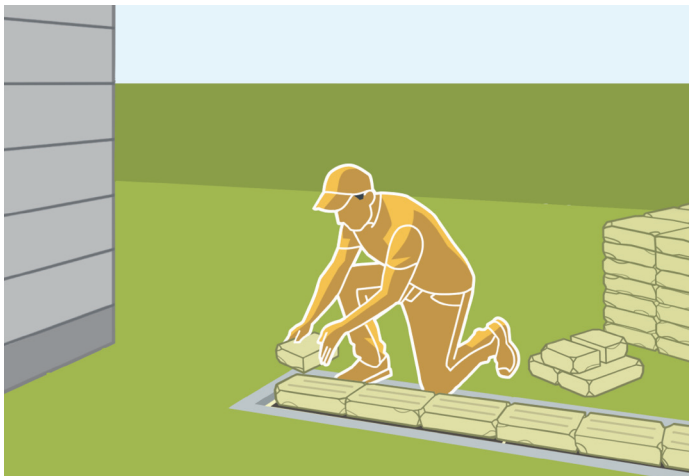
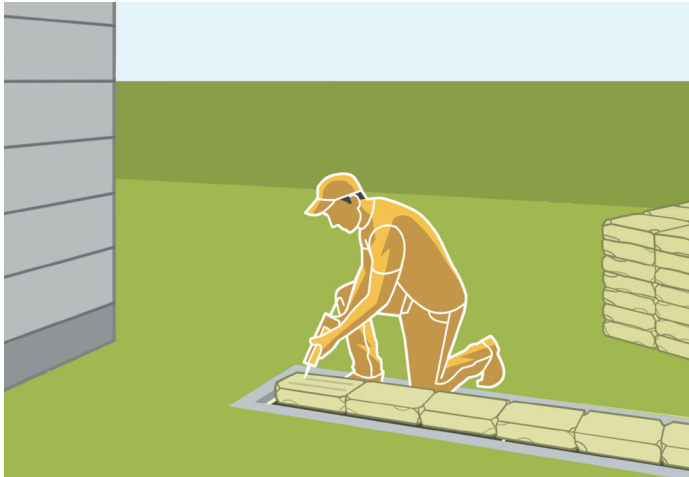
Pillars, Sitting Walls, Benches, Grills, Mailbox

**THE BASE is the most important step for long lasting projects.**

### STEP 9

#### LAY COURSES OFFSETTING YOUR WALL UNITS

Prior to starting the second row/course, use a good concrete adhesive (2 lines/beads) on top of the wall units. Do this for each row/course



Lay your split 1/2 wall unit to begin the second row/course. Continue laying full units. The 3rd course, begin with full wall unit. This will make sure you always off set the wall units below.

#### Tim's Tips:

For wall units with a lip on the bottom, use a chisel and sledge hammer to knock off the lip so it lays flat on the panel. It will not effect the wall unit structure.

**See following pages for more options.**

### STEP 10

#### ROWS/COURSES AND TOP CAP

Continue adding your rows /courses. Use concrete adhesive on each layer. Odd rows/courses (1, 3, 5) use full wall units Even rows/courses (2, 4, 6) begin with 1/2 units then full units.



To finish off your short wall/sitting wall add the top Cap. Use concrete adhesive than lay your wall unit long ways (opposite direction of the rows/courses). This will give you a larger area to sit on and make you wall look great.



#### NOW ENJOY YOUR SITTING WALL FOR A LIFETIME!





# PaverBase

For All Patios, Walkways, Stackable Sitting Walls, Pillars, Artificial Turf, Athletic Courts, Sheds and More

## HOW TO INSTALL STACKABLE RETAINING WALLS

Pillars, Sitting Walls, Benches, Grills, Mailbox

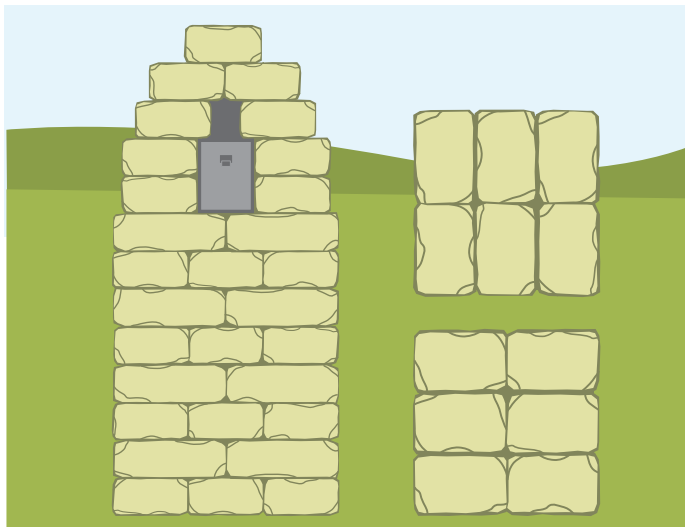
**THE BASE** is the most important step for long lasting projects.

### STACKABLE RETAINING WALL PROJECTS

- Stand Alone - Bury the first course, (steps 1-10)
- Build on top of Patios and Walkways\* (\*paving stones that can handle the weight, (steps 7-10))

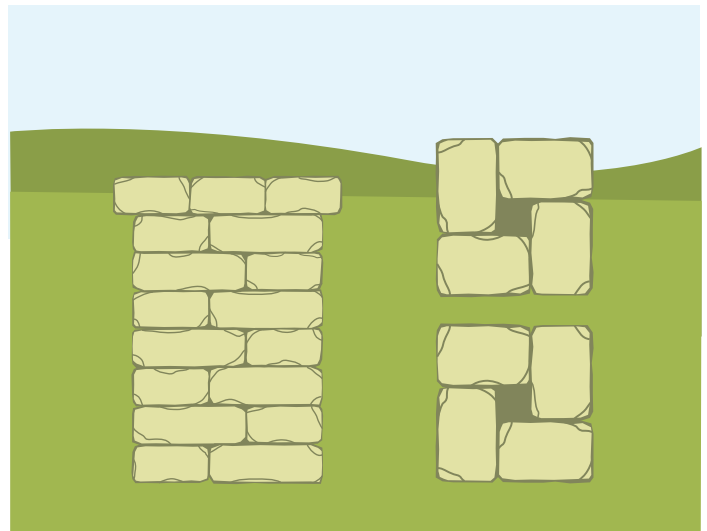
#### WALL PROJECTS:

Pillars (Single) / Sitting Walls / Bench Walls (2 Pillars) / MailBoxes / Grill Bases



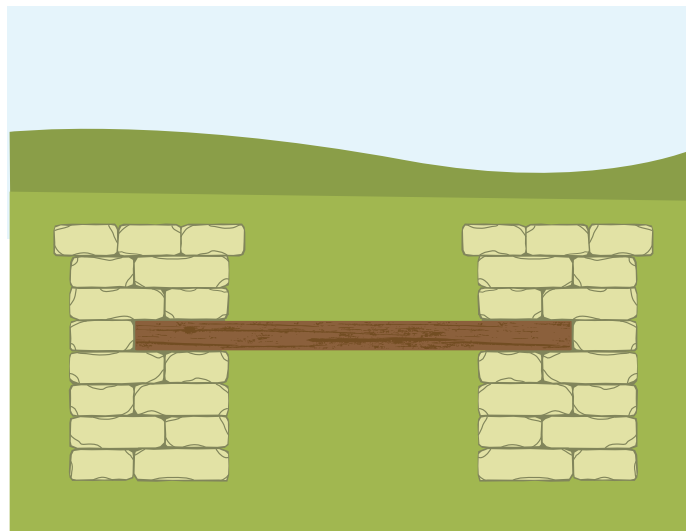
Mailbox: 67 Wall Units (4in. X 8in. X 12in.)

NOTE: Rotate Pattern 90° - each layer/course



Pillars/Columns

NOTE: Rotate Pattern 90° - each layer/course



Bench Wall





# PaverBase

For All Patios, Walkways, Stackable Sitting Walls, Pillars, Artificial Turf, Athletic Courts, Sheds and More

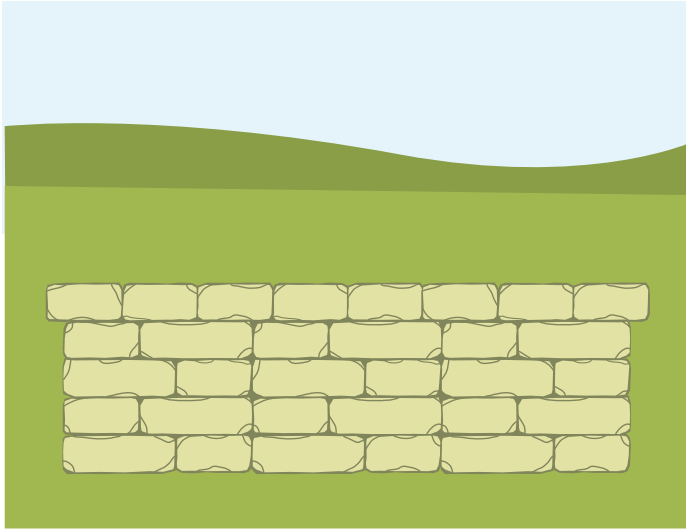
## HOW TO INSTALL STACKABLE RETAINING WALLS

Pillars, Sitting Walls, Benches, Grills, Mailbox

**THE BASE** is the most important step for long lasting projects.

### WALL PROJECTS:

Pillars (Single) / Sitting Walls / Bench Walls (2 Pillars) / MailBoxes / Grill Bases



Sitting Wall- Running Bond



8" Sitting Wall - Running Bond



8" Sitting Wall - Random



12" Sitting Wall - Random



BROCK

# PaverBase

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## HOW TO INSTALL STACKABLE RETAINING WALLS

Pillars, Sitting Walls, Benches, Grills, Mailbox

**THE BASE** is the most important step for long lasting projects.

### WALL PROJECTS:

Pillars (Single) / Sitting Walls / Bench Walls (2 Pillars) / MailBoxes / Grill Bases



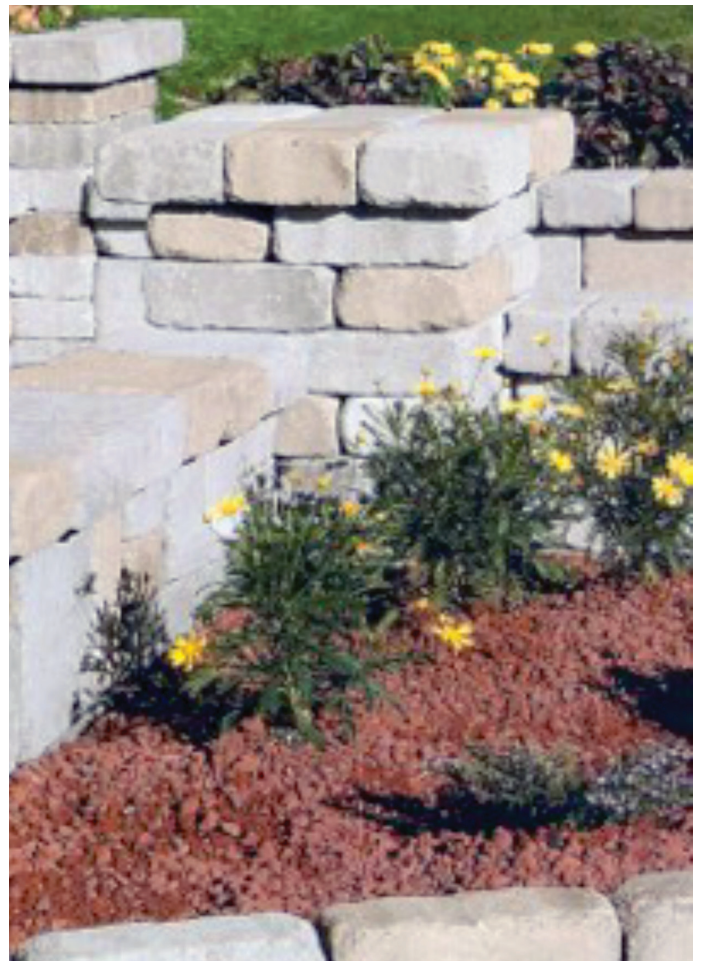
Planter



Stackable Walls, Pillars, Edgers



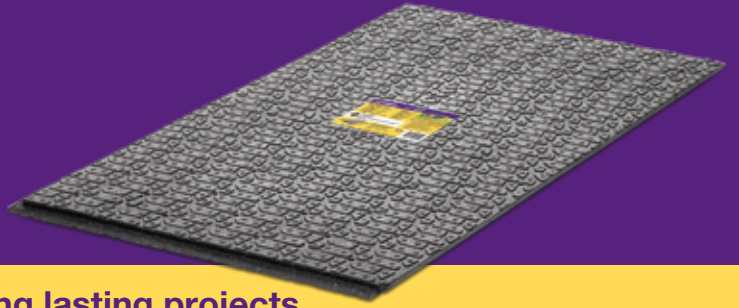
Tall Edging



 BROCK

# PaverBase

For All Patios, Walkways, Stackable Sitting Walls, Pillars, Artificial Turf, Athletic Courts, Sheds and More



**THE BASE** is the most important step for long lasting projects.

Page 30

## ATHLETIC COURTS, DECORATIVE STONE PATHWAYS



**Need help?**

Call Tim Newton anytime with questions or to discuss your PaverBase project: **813.431.8259**

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**HOW TO INSTALL  
 ATHLETIC COURT TILES,  
 DECORATIVE STONE/ROCK**

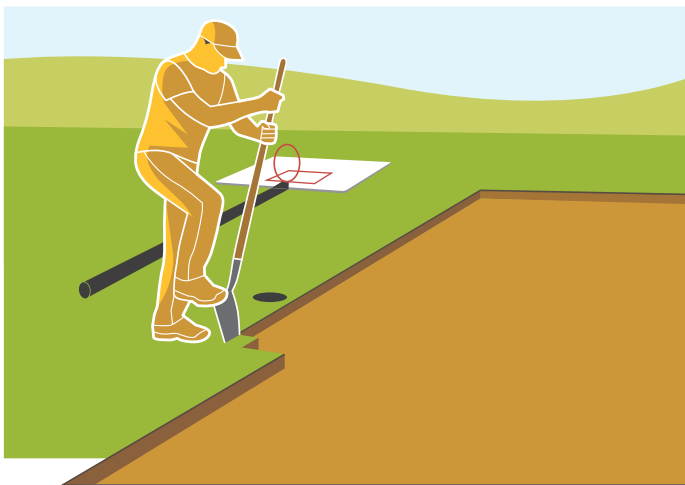
Basketball, Tennis, Pickleball, Bocce Ball Courts,  
 Decorative Stone - Rock Pathways

**THE BASE is the most important step for long lasting projects.**

**STEP 1**

**PREPARING YOUR PROJECT AREA**

Determine how much to excavate using the example below. Remove the grass to desired depth (skim rather than dig deep) and a few inches wider than you project area.



**MATERIAL REMOVAL GUIDE**

**Tim's Tip:**

The total project area will be approx. the thickness of your Athletic Court Tiles Ex: 1".

How deep you need to dig is determined by adding the thickness of the following components:

<b>EXAMPLE</b>	<b>Approx. Thickness</b>
Leveling Sand on Fabric	1/2 Inch (hand tamp)
Athletic Court Tiles*	+ Approx. 1 Inch
Brock PaverBase	+ Approx. 3/4 Inch
Dig out this many inches below your current level	= Approx. 2-1/4 Inches

\*will depend on the Athletic Court Tiles and size and depth of Decorative Rock/Stone you select.



Basketball Court

**STEP 2**

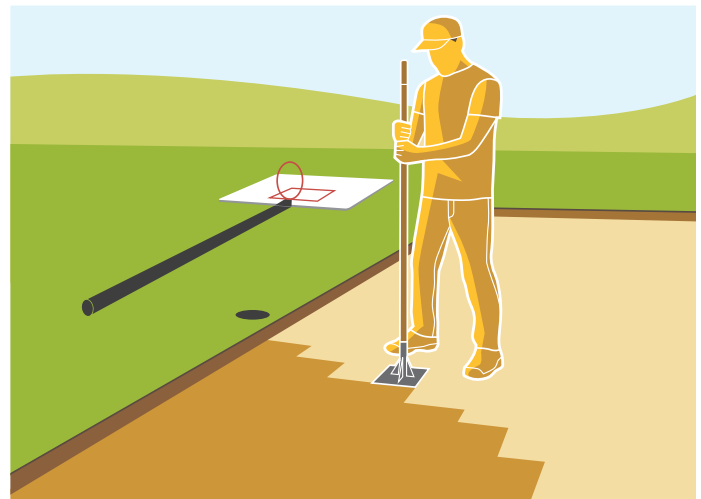
**LEVEL AND COMPACT THE BASE**

Using a hard rake and/or shovel, compact and level the area with appropriate slope. The ground should be tightly compacted using a hand tamper or plate compactor. The slope should be about 1/4" per one foot of distance. It is helpful to pull a string line so you can check your slope. To run a string line, attach a string to a fixed point on the house side about 3" above the surface of the patio, and pull it tight toward the outside edge of your new patio area. Attach the other end to a landscape stake in the ground making sure the string is tight. Use a level and ruler to create the desired slope. For example, the patio should slope 2.5" over a 10 foot distance (Diagram below). This will ensure that the patio moves water away from the house.

**Tim's Tip:**

Use along straight edge or side of a 2 x 4 (from high end to low end of you project) to fix the high and low spots.

The area should be as smooth as possible, making sure to get rid of high and low spots to within +/- 1/4". This is now your compacted ground with 1/4" slope per foot. Congratulations, the hard part is over!



**TIP:** For clay soils, use dirt/soil or base material to make it easier to compact the ground flat with 1/4" slope per foot.



First Basketball Court using Brock PaverBase

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**HOW TO INSTALL  
 ATHLETIC COURT TILES,  
 DECORATIVE STONE/ROCK**

Basketball, Tennis, Pickleball, Bocce Ball Courts,  
 Decorative Stone - Rock Pathways

**THE BASE is the most important step for long lasting projects.**

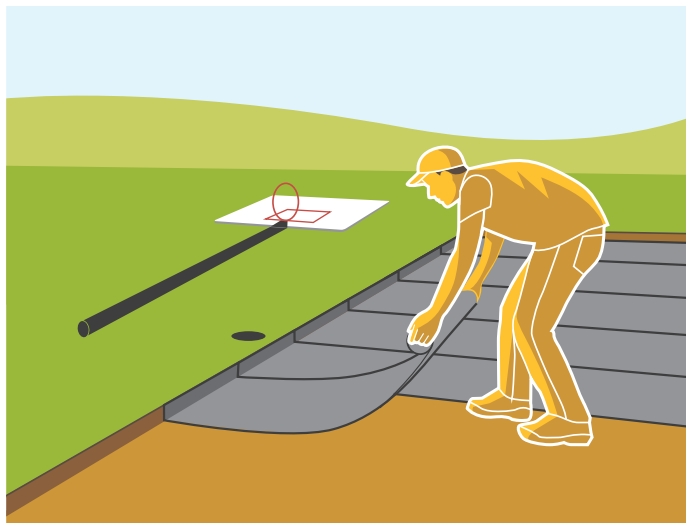
**STEP 3**

**ADD A LONG LASTING LANDSCAPE FABRIC**

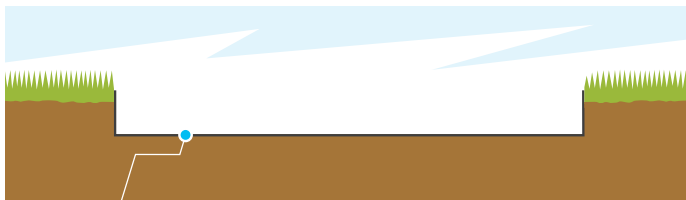
Next install long lasting landscape fabric (15, 20, 30 years, Lifetime) over the excavated and compacted area. Overlap the edges of the fabric by 4-6".

**Tim's Tip:**

Lay extra fabric on the sides. After you lay the panel or panels and paving stones, fold the fabric up then place edge restraints. This will ensure sand cannot leech out.

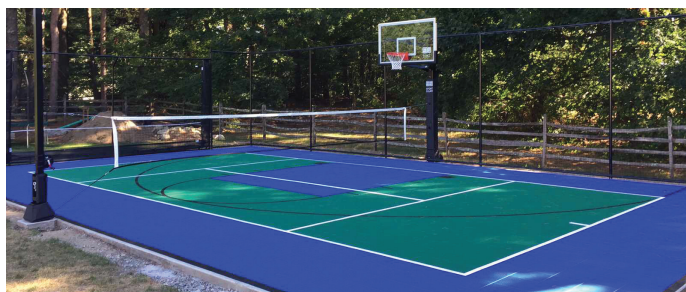


**TIP:** Add landscape pins to hold panels tight.



**LANDSCAPE WEED FABRIC (BARRIER)**

**NOTE:** Fabric holds in the sand, not for weeds.

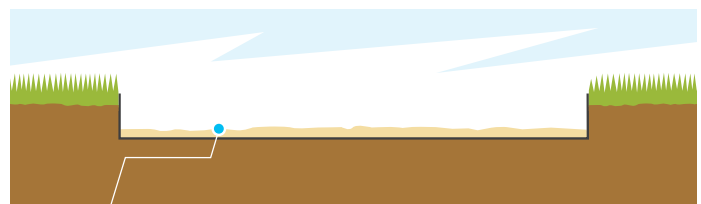


Tennis and Basketball Court

**STEP 4**

**SPREAD A 1/2" LAYER OF LEVELING SAND**

Lay two 1/2" pipes (or rebar) on top of the fabric over the ground in the same direction as your slope, high to low end. Spread an even layer of sand over the pipes in your project area.



**1/2" ALL PURPOSE LEVELING PAVER SAND (STEP 2 SAND)**



Basketball Court



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**HOW TO INSTALL  
 ATHLETIC COURT TILES,  
 DECORATIVE STONE/ROCK**

Basketball, Tennis, Pickleball, Bocce Ball Courts,  
 Decorative Stone - Rock Pathways

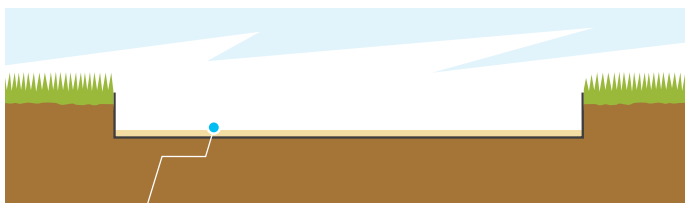
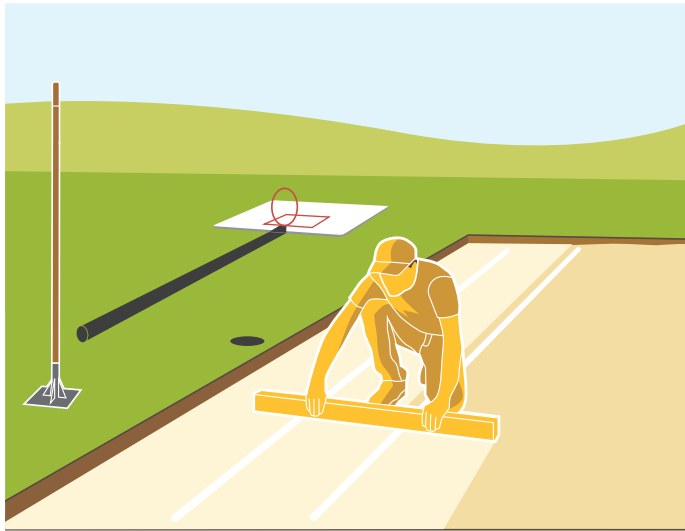
**THE BASE is the most important step for long lasting projects.**

**STEP 5  
 SCREED THE SAND USING A BOARD**

Using a standard 2x4 that is 6 feet long, screed the sand using the board along the pipe or rebar, maintaining your slope so watch your string line. Make sure the board you use is straight and true! Hand tamp the sand and recheck to make sure you do not have any high or low spots. Do not use a plate compactor to compact the sand. Do not use a plate compactor to compact the sand.

**Tim's Tips:**

- Remove the screed pipes before laying your panel.
- Use long straight edge or side of 2 x 4 same (as step 2) after you hand tamp the sand.



1/2" ALL PURPOSE LEVELING PAVER SAND



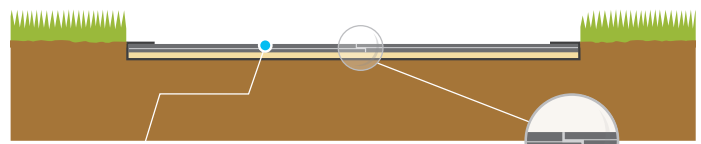
Basketball Court

**STEP 6  
 INSTALL BROCK PAVERBASE PANELS**

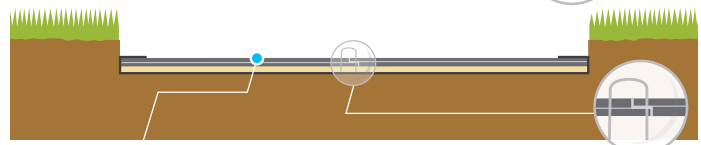
Starting against a straight edge of the patio, lay the Brock panels, ensuring that the side flanges overlap. Ideally, lay them in a "brick-like" pattern (illustration below). This will ensure stability of the panels when you lay the pavers. To off set the panels (for the second row), cut a panel in half, using a utility knife, and start with the cut panel edge on the outside (where the edge restraint will be) so the panel flange/lips (tongue and groove) can be used. Use the bottom half panel to finish the end of the next row. As you are laying your panels, use some landscape fabric pins to hold the panels tight for the next step.

Trim any curves or along edges using a utility knife. Place any extra scrap pieces of Brock PaverBase in your recycling bin.

**TIP:** Fold the fabric up and or up and over the panel to ensure the sand cannot leech out in time.



BROCK PAVERBASE PANELS



BROCK PAVERBASE PANELS AND LANDSCAPE FABRIC PINS



Landscape Fabric Pins

**STEP 6A**

Use landscape fabric pins to hold panels tight before laying the second layer of fabric over the top of the panels.

Use 3 pins per panel.

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**HOW TO INSTALL**  
**ATHLETIC COURT TILES,**  
**DECORATIVE STONE/ROCK**

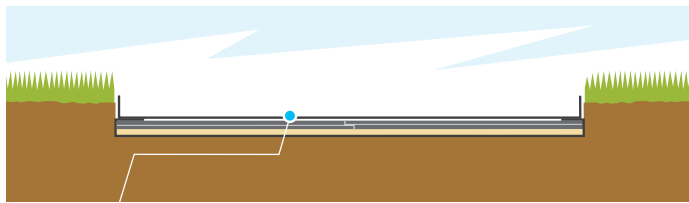
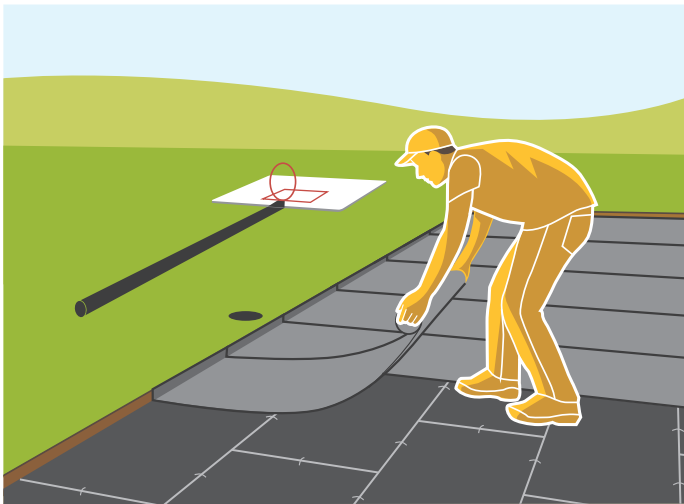
Basketball, Tennis, Pickleball, Bocce Ball Courts, Decorative Stone - Rock Pathways

**THE BASE is the most important step for long lasting projects.**

**STEP 7**

**ADD 2ND LAYER OF LONG LASTING LANDSCAPE FABRIC**

Once the Brock PaverBase is installed, place a second layer of weed barrier fabric on top of the panels to stop any sand migration. Yes you can walk on the panels. Overlap the edges of the fabric by 4-6".



LANDSCAPE WEED FABRIC (BARRIER)

**Tim's Tip:**

Important to use a 20-30 year or lifetime landscape fabric. The fabric will keep the uv rays from reaching the panels.



Basketball Court

**STEP 8**

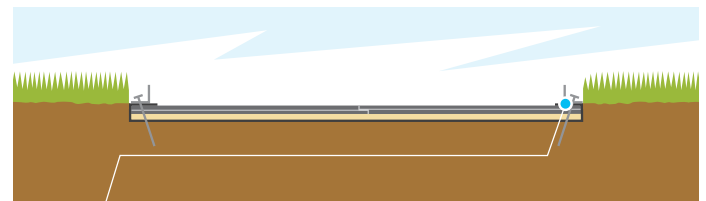
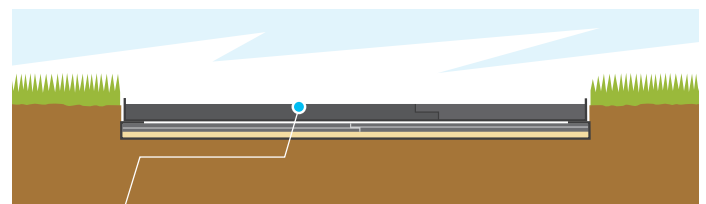
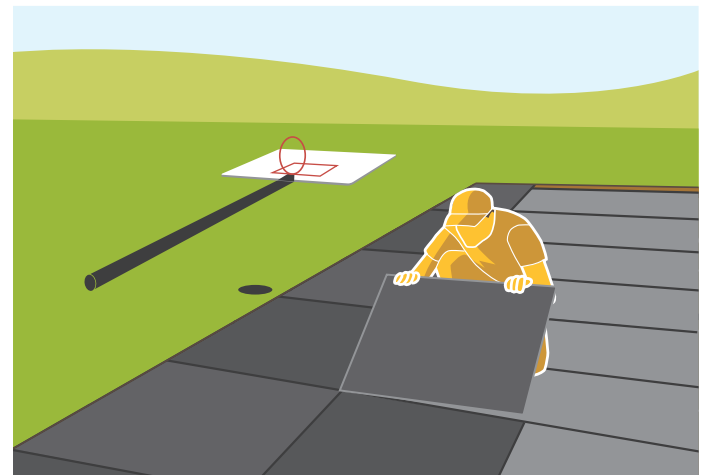
**INSTALL THE ATHLETIC COURT TILES**

Now the fun really begins! Lay the Athletic Court Tiles directly on the Brock PaverBase panels. Yes you can walk on the panels when laying the tiles.

**NOTE:** For Decorative Stone/Rock projects, add desired stone/rock depth for pathways and in between paving stones applications.

**Tim's Tip:**

You can use landscape spike on the outside panels to hold in place.



EDGE RESTRAINTS AND SPIKES



Basketball Court

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**HOW TO INSTALL  
 ATHLETIC COURT TILES,  
 DECORATIVE STONE/ROCK**

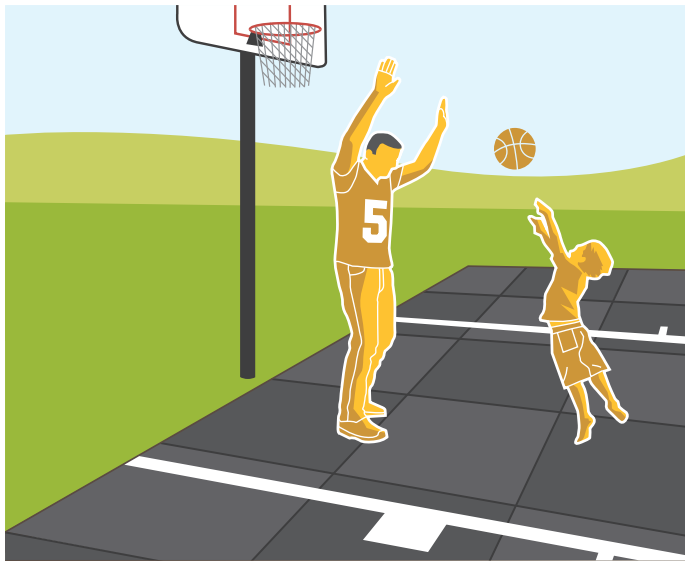
Basketball, Tennis, Pickleball, Bocce Ball Courts,  
 Decorative Stone - Rock Pathways

**THE BASE is the most important step for long lasting projects.**

**STEP 9**

**TIME TO PLAY AND HAVE FUN**

Enjoy your athletic court to create memories for years to come!



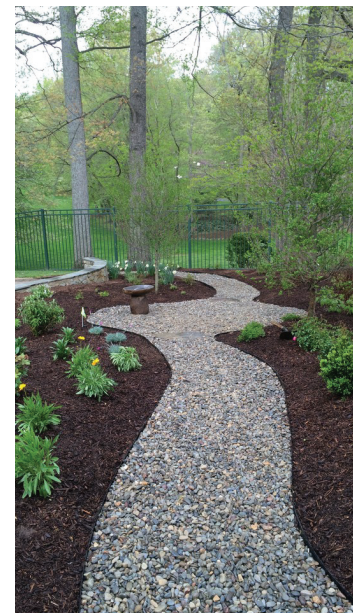
Basketball Court



Bocce Ball Court



Pickleball Court



Decorative Stone - Rock Pathway - Follow Steps 1 to 7



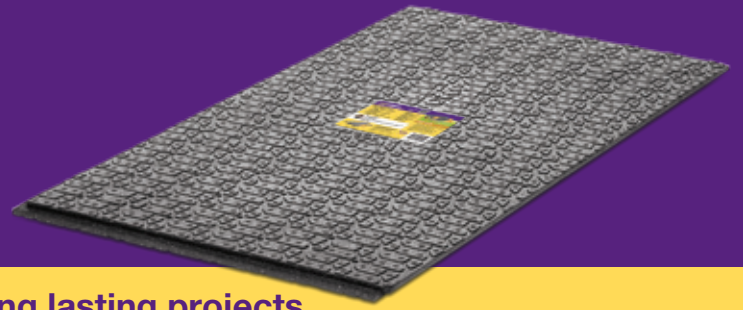
**Need help?**

Call Tim Newton anytime with questions  
 or to discuss your PaverBase project:  
**813.431.8259**

 BROCK

# PaverBase

For All Patios, Walkways, Stackable Sitting Walls, Pillars, Artificial Turf, Athletic Courts, Sheds and More



**THE BASE** is the most important step for long lasting projects.

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## ARTIFICIAL TURF & PUTTING GREENS



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**HOW TO INSTALL  
 ARTIFICIAL TURF AND  
 PUTTING GREENS**

**THE BASE is the most important step for long lasting projects.**

**STEP 1**

**PREPARING YOUR PROJECT AREA**

Determine how much to excavate using the example below. Remove the grass to desired depth (skim rather than dig deep) and a few inches wider than you project area.



**MATERIAL REMOVAL GUIDE**

**Tim's Tip:**

The total project area will be approx. the thickness of your Artificial Turf + 1".

How deep you need to dig is determined by adding the thickness of the following components:

<b>EXAMPLE</b>	<b>Approx. Thickness</b>
Leveling Sand on Fabric	1/2 Inch (hand tamp)
Artificial Turf Thickness*	+ 1 Inch
Brock PaverBase	+ Approx. 3/4 Inch
Dig out this many inches below your current level	= Approx. 2-1/4 Inches

\*will depend on the turf you select. Add additional 1/2" sand for putting greens.



Artificial Turf Yards

**STEP 2**

**LEVEL AND COMPACT THE BASE**

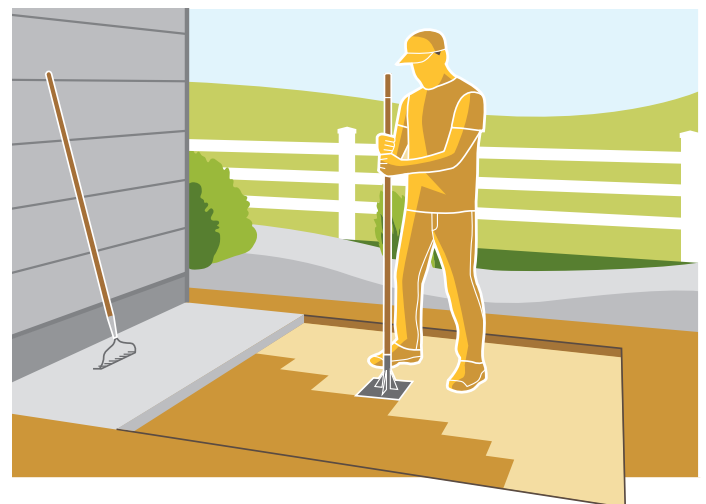
Using a hard rake and/or shovel, compact and level the area with appropriate slope. The ground should be tightly compacted using a hand tamper or plate compactor. The slope should be about 1/4" per one foot of distance. It is helpful to pull a string line so you can check your slope. To run a string line, attach a string to a fixed point on the house side about 3" above the surface of the patio, and pull it tight toward the outside edge of your new patio area. Attach the other end to a landscape stake in the ground making sure the string is tight. Use a level and ruler to create the desired slope. For example, the patio should slope 2.5" over a 10 foot distance (Diagram below). This will ensure that the patio moves water away from the house.

**Tim's Tip:**

Use along straight edge or side of a 2 x 4 (from high end to low end of you project) to fix the high and low spots.

The area should be as smooth as possible, making sure to get rid of high and low spots to within +/- 1/4". This is now your compacted ground with 1/4" slope per foot. Congratulations, the hard part is over!

**TIP:** For clay soils, use dirt/soil or base material to make it easier to compact the ground flat with 1/4" slope per foot.



Artificial Turf Court Yard

# BROCK PaverBase

For All Patios, Walkways, Stackable Sitting Walls, Pillars, Artificial Turf, Athletic Courts, Sheds and More

## HOW TO INSTALL ARTIFICIAL TURF AND PUTTING GREENS

**THE BASE** is the most important step for long lasting projects.

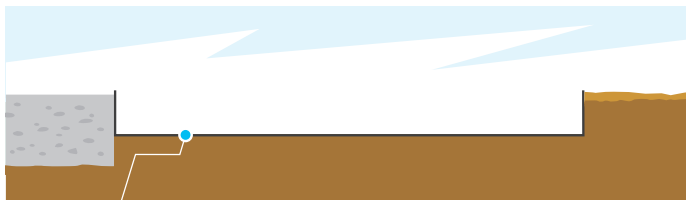
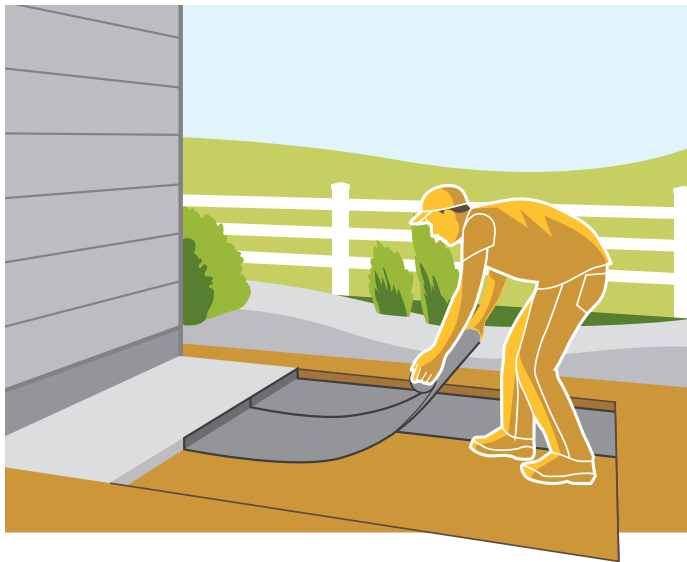
### STEP 3

#### ADD A LONG LASTING LANDSCAPE FABRIC

Next install long lasting landscape fabric (15, 20, 30 years, Lifetime) over the excavated and compacted area. Overlap the edges of the fabric by 4-6".

##### Tim's Tip:

Lay extra fabric on the sides. After you lay the panel, fold the fabric up then place edge restraints. This will ensure sand cannot leech out.



LANDSCAPE WEED FABRIC (BARRIER)

**NOTE:** Fabric holds in the sand, not for weeds.

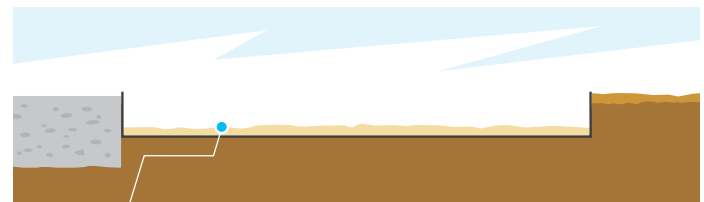
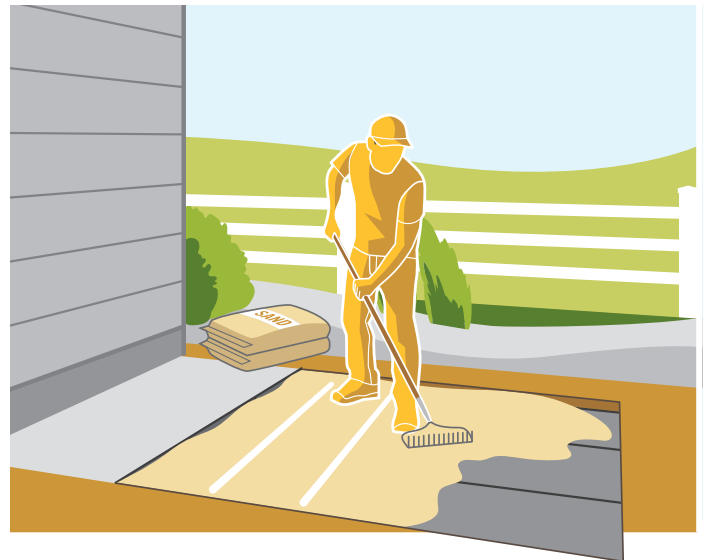


Paver Patio and Walkway with Artificial Turf Yard

### STEP 4

#### SPREAD A 1/2" LAYER OF LEVELING SAND

Lay two 1/2" pipes (or rebar) on top of the fabric over the ground in the same direction as your slope, high to low end. Spread an even layer of sand over the pipes in your project area.



1/2" ALL PURPOSE LEVELING PAVER SAND (STEP 2 SAND)



Artificial Turf Backyard

**BROCK**  
**PaverBase**

For All Patios, Walkways, Stackable Sitting Walls, Pillars, Artificial Turf, Athletic Courts, Sheds and More

**HOW TO INSTALL  
 ARTIFICIAL TURF AND  
 PUTTING GREENS**

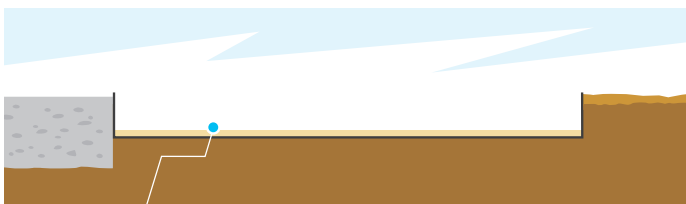
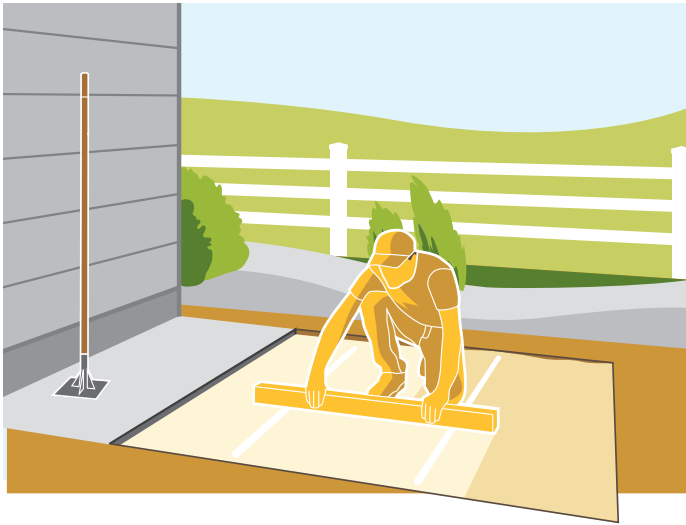
**THE BASE is the most important step for long lasting projects.**

**STEP 5  
 SCREED THE SAND USING A BOARD**

Using a standard 2x4 that is 6 feet long, screed the sand using the board along the pipe or rebar, maintaining your slope so watch your string line. Make sure the board you use is straight and true! Hand tamp the sand and recheck to make sure you do not have any high or low spots. Do not use a plate compactor to compact the sand. Do not use a plate compactor to compact the sand.

**Tim's Tips:**

- Remove the screed pipes before laying your panels
- Use long straight edge or side of 2 x 4 same (as step 2) after you hand tamp the sand.



1/2" ALL PURPOSE LEVELING PAVER SAND



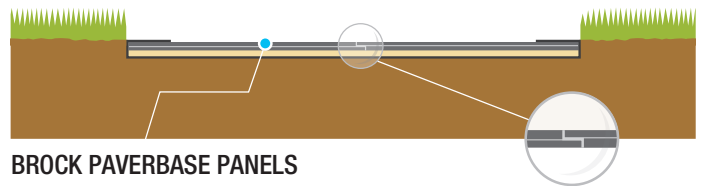
Artificial Turf with Decorative Walkway and Garden Bed

**STEP 6  
 INSTALL BROCK PAVERBASE  
 PANELS**

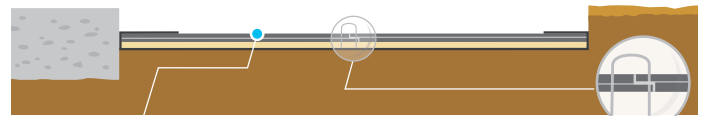
Starting against a straight edge of the patio, lay the Brock panels, ensuring that the side flanges overlap. Ideally, lay them in a "brick-like" pattern (illustration below). This will ensure stability of the panels when you lay the pavers. To off set the panels (for the second row), cut a panel in half, using a utility knife, and start with the cut panel edge on the outside (where the edge restraint will be) so the panel flange/lips can be used. Use the bottom half panel to finish the end of the next row. As you are laying your panels, use some landscape fabric pins to hold the panels tight for the next step.

Trim any curves or along edges using a utility knife. Place any extra scrap pieces of Brock PaverBase in your recycling bin.

**TIP:** Fold the fabric up and or up and over the panel. This will make sure the sand cannot leech out in time.



BROCK PAVERBASE PANELS



BROCK PAVERBASE PANELS AND LANDSCAPE FABRIC PINS



LANDSCAPE FABRIC PINS

**STEP 6A**

Use landscape fabric pins to hold the panels tight when rolling out your artificial turf. Use 3 pins per panel.



# PaverBase

For All Patios, Walkways, Stackable Sitting Walls, Pillars, Artificial Turf, Athletic Courts, Sheds and More

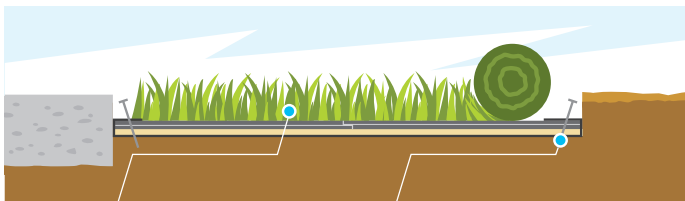
## HOW TO INSTALL ARTIFICIAL TURF AND PUTTING GREENS

**THE BASE** is the most important step for long lasting projects.

### STEP 7

#### INSTALL YOUR ARTIFICIAL TURF

Now the fun really begins! Roll your Artificial Turf directly on the Brock PaverBase panels. Yes you can walk on the panels. Use landscape fabric spikes along the outside edge of the panels to hold the panel and turf in place.



ARTIFICIAL TURF

LANDSCAPE FABRIC SPIKES

**NOTE:** Use landscape spikes along outside edge to hold panels in place.

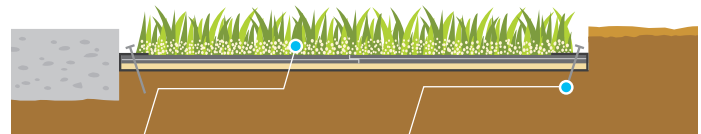
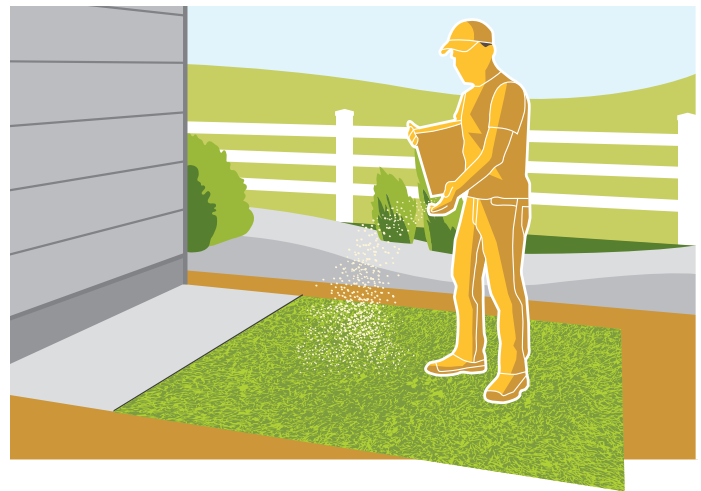


Artificial Turf Front Yard

### STEP 8

#### SPREAD IN A TOP FILL SAND OR WHAT THE TURF COMPANY RECOMMENDS

For thicker turf, spread a top fill material, sand or what the turf company recommends to hold down the turf. Use landscape fabric spikes along the outside edge of the panels to hold the panels and turf in place.

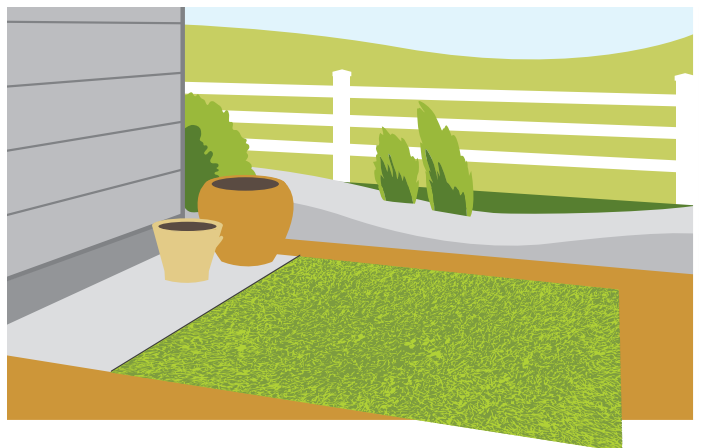


TOP FILL MATERIAL

LANDSCAPE FABRIC SPIKES

### STEP 9

#### ADD FINISHING TOUCHES. ENJOY!







# PaverBase

For All Patios, Walkways, Stackable Sitting Walls, Pillars, Artificial Turf, Athletic Courts, Sheds and More

## HOW TO INSTALL ARTIFICIAL TURF AND PUTTING GREENS

THE BASE is the most important step for long lasting projects.

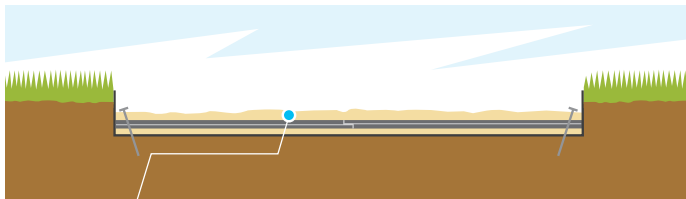
### PUTTING GREENS

FOLLOW STEPS 1 THRU STEP 6

#### STEP 7

##### SPREAD LAYER OF LEVELING SAND

Add a 1/2" thick layer of all purpose leveling paver sand on top of the panels. This layer of sand will fill in the channels and holes and create smooth panel surface, better for the thin putting green turfs.

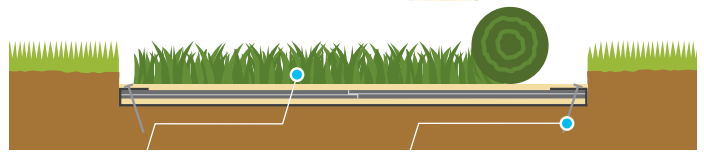


1/2" ALL PURPOSE LEVELING PAVER SAND (STEP 2 SAND)



#### STEP 8

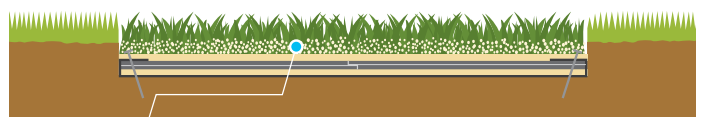
Roll out your putting green turf as directed by the turf manufacturer. Use landscape fabric spikes along the outside edge of the panels to hold the panels and turf in place.



PUTTING GREEN TURF LANDSCAPE FABRIC SPIKES

#### STEP 9

You are ready to enjoy your putting green and make great memories for years to come.



TOP FILL MATERIAL



#### Need help?

Call Tim Newton anytime with questions or to discuss your PaverBase project:  
813.431.8259