

FOR SINGLE-FAMILY RESIDENTIAL USE ONLY WITH LESS THAN 5,000 SQUARE FEET OF NEW OR REPLACED IMPERVIOUS AREA

Permeable Pavers

A permeable paver system is an alternative to traditional pavement which can also provide stormwater treatment. Stormwater from impervious areas including roofs, driveways, and pool decks is conveyed to the paver system and water flows through the openings between the paver stones. Water is stored in a stone reservoir below the paver and infiltrates into the surrounding soil providing stormwater benefits.



Locate

- Install the permeable pavers at least 10 feet away from building foundations.
- Avoid septic fields, utility easements, and, public right of way
- The drainage area to paver surface area ratio must be less than 4:1.
- Permeable paver system surface should slope 5% or less to receive stormwater treatment credit.
- Pavers must be located in an area where they receive flow only from impervious areas. Sediment-laden runoff will clog the system.

Design

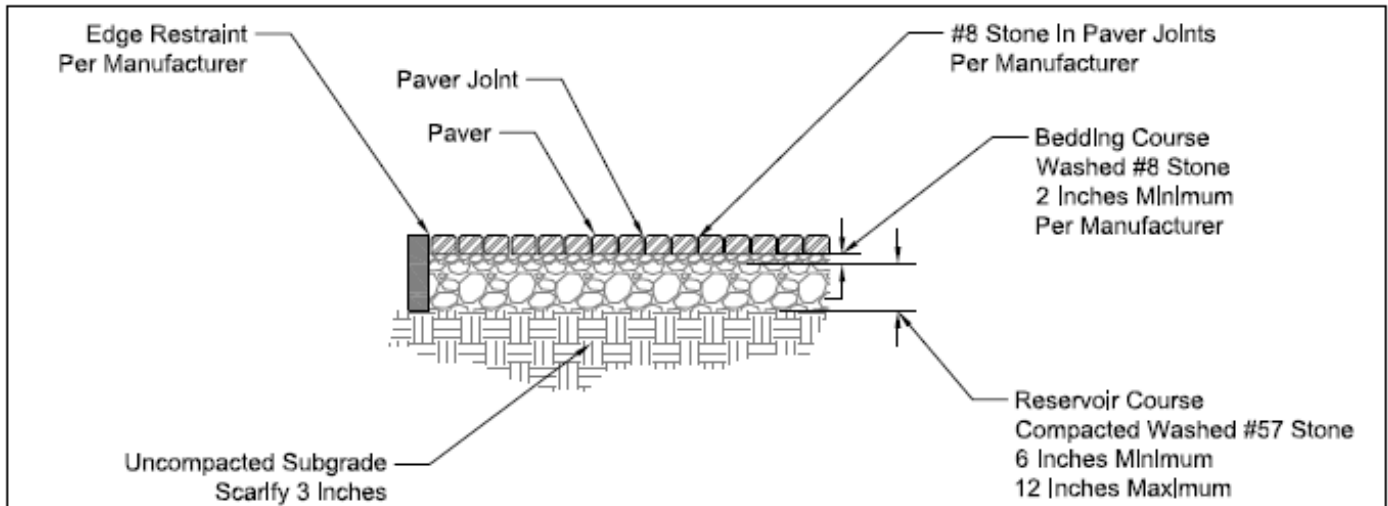
- The paver cross section including depth of gravel is dictated by the paver manufacturer. The minimum stone reservoir thickness allowed is 6 inches.
- To calculate the area of pavers required, see the table below.
- Refer to the detail on the next page.

Area of Proposed Impervious Surface in Square Feet To Be Treated by Pervious Paver System			
Paver Area (square feet)	Depth of Gravel Reservoir (inches)		
	6	9	12
50	100	150	200
100	200	300	400
200	400	600	800
400	800	1200	1600
500	1000	1500	2000
1000	2000	3000	4000

Maintain

- Sweep, vacuum, or blow the paver surface monthly to keep the surface free of debris and sediment. Vacuum per manufacturer's directions.
- Remove accumulated sediment and debris from the paver joints monthly.
- Observe the paver system for areas of ponding water. Provide maintenance as needed.

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Design Steps

1. Review potential areas for the permeable paver system. The area should have a gentle slope away from structures. The areas sloping at 5% or less can be credited for stormwater treatment. Design such that the area draining to the pavers does not exceed 4 times the paver area.
2. Avoid areas within 10 feet of a building foundation, near slopes, near septic lines or other utilities, or public right of way.
3. After selecting a paver manufacturer, obtain manufacturer's construction specifications and details.

Construction Steps

1. Call 811 for a utility locate before you dig.
2. Dig the paver area to the depth as recommended by the manufacturer.
3. Roughen the native soil and avoid compacting the bottom of the trench.
4. Install edge restraint as recommended by manufacturer and dictated by vehicle load.
5. Install stone (often washed #57 stone) per manufacturer's recommendations in lifts of 6 inches or less. Compact and level the stone between lifts.
6. Install the leveling course of #8 stone.
7. Install the pavers as indicated by the manufacturer.
8. Sweep additional #8 stone into spaces between the pavers.

<p>CITY OF ROSWELL COMMUNITY DEVELOPMENT DEPARTMENT</p>	<p>Name/Address:</p>	<p>PERMEABLE PAVER DIAGRAM & CONSTRUCTION STEPS</p>
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