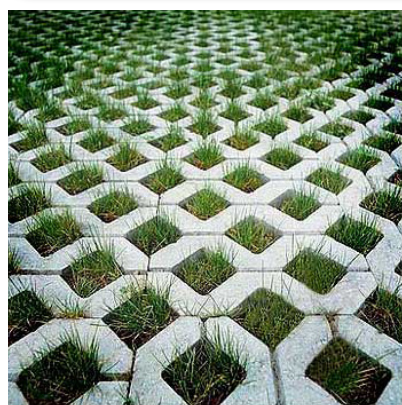


TOWN OF CEDAR POINT AND TOWN OF CAPE CARTERET

Stormwater Solutions: Permeable Paving



What is Permeable Paving?

Permeable paving is any paving material that allows rainwater to soak through the pavement and infiltrate. Permeable paving comes in various forms – pervious concrete, pervious asphalt, and concrete paving are some of the most popular materials. The permeable paving system requires a washed stone base, which aids in adding runoff storage volume as well as structural support.

Did you Know?

- The concrete industry has data on the long term performance and cost-benefit of using pervious pavement systems.
- Town regulations may require pervious pavement in some parking areas.
- Permeable pavement has been used in many locations in coastal North Carolina.

Benefits

- Increased infiltration, reduced runoff
- Opportunity for artistic design if pavers are used
- Great way to reduce runoff without losing parking
- Great for retrofits

Helpful Hints

- Permeable pavements can be used in conjunction with underground detention or rainwater harvesting systems to gain additional stormwater benefits.
- There are thousands of paver and material options – contact your contractor for more information.



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Where to Start

Location

- Pervious pavement systems should be sited on generally flat areas
- A concrete edging may be necessary
- Obtain a soil test before installing pavements, an under drain might be needed
- Only install permeable systems where the water table is deep enough to allow the system to completely drain

Sizing

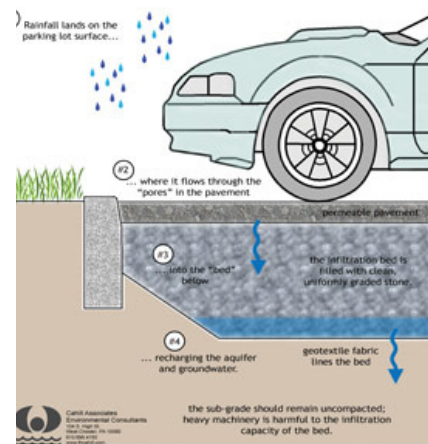
Unless a permit is required, there is no surface area requirement. Consider using a thicker washed stone base to increase storage capacity and further reduce runoff volumes.

Care

- The system should be checked regularly for proper drainage
- If infiltration rate decreases, clean debris and fines from surface layer
- If system loses infiltration capabilities, contact an engineer or qualified contractor.
- Potholes, cracks, or damaged pavers should be repaired or replaced immediately

References and Resources

- Carolinas Ready-Mix Concrete Association: www.crmca.com
- Pervious Pavement: www.perviouspavement.org/
- Concrete Network: www.concretenetwork.com/pervious/
- Low Impact Development Center: www.lowimpactdevelopment.org
- NC DWQ BMP Manual: www.portal.ncdenr.org/web/wq/ws/su/bmp-manual



note: permeable paving photo above is of a local residence in the Town of Cape Carteret.



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