

Permeable Pavement

Definition/Purpose

Permeable pavement is an alternative to conventional concrete and asphalt paving materials that allows rapid infiltration of stormwater. Stormwater infiltrates into a porous paving material that provides temporary storage until the water infiltrates into underlying permeable soils or through an underground drain system. This practice is intended to reduce stormwater runoff rate and volume, as well as associated pollutants transported from the site by stormwater runoff.

Policies

1. Practice must be combined with impervious surface removal. Surface area of permeable pavement to be cost-shared shall not exceed the portion of impervious surface removed.
2. The soils beneath the permeable pavement must have sufficient infiltration capacity for the permeable pavement to drain. Refer to specification for more detailed information.
3. Permeable pavement shall not be installed until the upslope and adjoining areas are stabilized. After installation, barriers shall be installed to prevent construction traffic from driving on the pavement.
4. Practice must be installed and maintained in accordance with manufacturer’s specifications.
5. An operation and maintenance plan for the site must be developed in accordance with the specifications outlined in the stormwater manual, and the manufacturer and implemented.

PERMEABLE PAVEMENT	
Lifespan	5 years single-family home, 10 years all other properties
BMP Units	SQUARE FEET
Required Effects	Nutrient reductions (SNAP tool)
JAA	There is no lob approval authority for permeable pavement, a division or professional engineer must design the practice.
CS2/Reference Materials	<ul style="list-style-type: none"> • NC-ACSP-11 Signature Page • Map with BMP location and fields

Community Conservation Assistance Program

Specifications

CCAP Design Manual Chapter 10, Permeable Pavement

<https://www.ncagr.gov/SWC/costshareprograms/CCAP/documents/Chapter10-PermeablePavement.pdf>

NC DEQ Stormwater BMP Manual: Permeable Pavement. Available online:

<https://files.nc.gov/ncdeq/Energy%20Mineral%20and%20Land%20Resources/Stormwater/BMP%20Manual/C-5%20%20Permeable%20Pavement%2004-06-17.pdf>