

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. The site must be located in the Sand Hills or Coastal Plains physiographic regions, including all barrier islands (refer to the map on following page). An exception to this requirement can be made on a case-by-case basis for sites in other areas of the state if soil within a one-mile radius of the site is classified as coarser than loamy very fine sand for the top three feet as defined by the USDA-NRCS.~~
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.

Specifications

~~NC DENR. 2005. Updated Draft Manual of Stormwater Best Management Practices: 3.10 Permeable Pavement. Raleigh, NC. Department of Environment and Natural Resources-Division of Water Quality~~

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

http://portal.ncdenr.org/c/document_library/get_file?uuid=473e686c-ac2a-4a09-9f2c-fcb709bceb6b&groupId=38364

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