

## Standard Test Methods for Pervious Pavements

The following is a list of test methods which have been developed or are currently under development and that may be useful for developing local pervious concrete standards. This list was provided by Liv Haselbach, P.E., PhD, LEED® AP, Associate Professor Civil and Environmental Engineering, Washington State University, Pullman, WA.

- a) Testing Methods for Acceptance of Product from the Producer
  - i) ASTM \_\_\_\_\_: Fresh Concrete Density (Unit Weight) and Void Content
    - This method is still under Development by ASTM C09/49 Pervious Concrete. Anticipated to be finalized in 2009.
  
- b) Installed Pavement Testing Methods
  - i) ASTM \_\_\_\_\_: Field Permeability (Infiltration Rate)
    - Under Development by ASTM C09/49 Pervious Concrete. Anticipated to be finalized in 2009 or 2010. Expected method title: “Standard Test Method for Infiltration Rate of In Place Pervious Concrete”.
  - ii) ASTM \_\_\_\_\_: Compressive Strength
    - Under Development by ASTM C09/49 Pervious Concrete
  - iii) ASTM \_\_\_\_\_: Hardened Concrete Density and Porosity
    - Under Development by ASTM C09/49 Pervious Concrete
    - A similar method is also being developed by the ASTM-equivalent organization in Canada.
  - iv) ASTM \_\_\_\_\_: Flexural Strength
    - Under Development by ASTM C09/49 Pervious Concrete
  
- c) Miscellaneous Testing Methods
  - i) Haselbach, L.M., and Freeman, R.M., “Effectively Estimating In-situ Porosity of Pervious Concrete from Cores”, *Journal of ASTM International*, 4(7), 2007.
  - ii) Montes, F., Valavala, S., and Haselbach, L., “A New Test Method for Porosity Measurements of Portland Cement Pervious Concrete”, *Journal of ASTM International*, 2(1), 2005.
  - iii) Crouch, L. K., Cates, M. A., Dotson, V. J., Honeycutt, K. R., and Badoe, D. A., “Measuring the Effective Air Void Content of Portland Cement Pervious Pavements”, *Cement, Concrete and Aggregates*, 25(1), 2003.