



EXACT Stormwater Management, LLC

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SUBJECT: Report on ASTM Infiltration Testing of The PaveDrain System 

In order to ascertain the infiltration rate of The PaveDrain System, we performed testing of a project in Washington DC. The testing was performed on April 29, 2015, and was located near the intersection of Quesada Street NW and 33rd Street NW. 

Testing was performed according to the criteria of ASTM C1701/C1701M – 09 Standard Test Method for Infiltration Rate of In Place Pervious Concrete with some modifications suggested by C1781/C1781M – 13 Standard Test Method for Surface Infiltration Rate of Permeable Unit Pavement Systems. A summary of the test procedure is as follows:

1. Locate a representative location on the pervious surface to run the test, and mark.
2. Install plumbers putty around the Infiltration Ring, and place the Ring on the pavement.
3. Pre-wet the area inside the Ring with 8.0 lbs (+/- 0.1 lb) of water. Record time for water to infiltrate.
 - a. If pre-wetting takes 30 seconds or less, use 40.0 lbs (+/- 0.1 lb) of water to run the full test
 - b. If pre-wetting takes more than 30 seconds, use 8.0 lbs (+/- 0.1 lb) of water to run the test
4. Pour water into the Infiltration Ring while maintaining a head pressure of 0.5 inches (+/- 0.1 inches).
5. Document the time from water impacting the surface until the water is no longer present on the pervious surface.

Section 9 of the ASTM C1701 test method contains a formula used to calculate the Infiltration Rate based on several variables: mass of infiltrated water, inside diameter of the infiltration ring, and time.

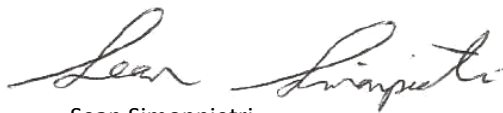
Three tests were performed on the PaveDrain System, and the average results shown in Table 1 below.

Table 1: Summary of Infiltration Rates Tested of PaveDrain

Surface Material	Infiltration rate (in/hr)	Mass of infiltrated water (lb)	Diameter of infiltration ring (in)	Time (sec)
PaveDrain	1,640	40.0	12.187	19.53/18.42/24.53

We are available to perform ASTM Infiltration Testing on PaveDrain or any other pervious surface materials. Please keep us in mind for any future needs.

Sincerely,



Sean Simonpietri
Owner