



STEWART

Pavement Type: AquaFlow

Test Date: 4/6/2015

Testing By: Charlene Harper, P.E.

Eric Giberson

Date of Previous Rainfall: 4/3/2015

Temperature: 66° F

Diameter of Infiltration Ring (inches): 12

Location	Begin Time	Pre-Wet Mass (lbs)	Pre-Wet Time (sec)	Begin Time	Testing Mass (lbs)	Testing Time (min:sec)	Infiltration Rate (in/hr)
1	11:07 AM	7.8	16.43	11:08 AM	40.12	102.21	345.83
2	11:24 AM	7.9	13.98	11:25 AM	40.14	71.95	491.52
3	11:35 AM	7.8	13.45	11:36 AM	40.10	78.06	452.60

$I = KM / (D^2 * t)$

I = infiltration rate (in/hr)

K = 126,870 in [inch-pound]

M = mass of infiltrated water (pounds)

D = inside diameter of infiltration ring (inches)

t = time required for measured amount of water to infiltrate the surface (seconds)



Paver description: rectangular paver with joint width 1/4" - 1/8" typical, swept with #8 stone

**Average Infiltration Rate: 429.98 in/hr**



**Process:**

- 1) pre-wet the section with 1 gallon of water, maintaining head between 0.4" and 0.6"
- 2) if pre-wet takes less than 30 seconds, test with 40 lbs of water
- 3) test with 40 lbs of water, maintaining head between 0.4" and 0.6"
- 4) record time for water to drain into the paver system