



Report of Permeability Testing

Client: Pavestone
Project: Piora Permeable Pavers
Project No.: 0814343

Report No.: 902921
Date of Service: May 2, 2008

Rone Engineering Services was retained by Pavestone to perform permeability testing on 120 mm x 240 mm Piora Permeable Pavers with Grade 6 aggregate joint infill material. The purpose of this test program was to determine the rate of water flow through the paver joints.

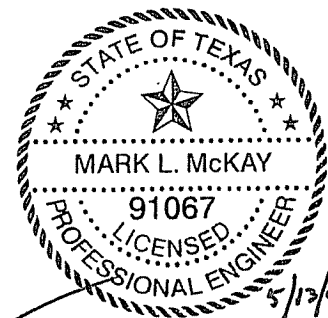
Test Setup

A frame, measuring 36" x 36" inside, was constructed with screen material secured to the bottom of the frame. The frame was placed on expanded metal so as not to inhibit water flow. The Piora pavers were then placed inside the frame in a staggered joint pattern. The perimeter of the mockup was sealed with silicone sealant. Grade 6 (No. 9) crushed limestone aggregate (sieve analysis attached) was then placed and consolidated in the paver joints. A diffuser was placed approximately six inches above the mockup to provide even dispersion of water. A 300 gallon water tank was used to provide the water supply. While running each test, a constant supply of water was supplied to the tank to maintain constant flow.

Test Results

Testing was conducted maintaining three levels of head water above the pavers. The level of head water was established, maintained for a minimum of 30 seconds, and the rate of flow was determined. This procedure was performed multiple times at each level to verify a consistent rate of flow. The average flow rate at each level was determined and is reported in the table below.

| Head Water (Inches) | Rate of Flow (Inches per Hour) |
|------------------------|-----------------------------------|
| 0.5 | 105 |
| 1.0 | 140 |
| 2.0 | 161 |



Mark L. McKay

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Report of Sieve Analysis

Client: Pavestone Company
PO Box 1868
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Report No.: 902910
Project No.: 0611274
Date of Service: 04/26/2008
Report Date: 04/30/2008

Project: Pavestone Grapevine Quality Control Testing

Services: Sieve Analysis Testing of permeable pavers

Report of Analysis

Description: Grade 6 (No. 9) Crushed Limestone

Source: Stockpile

Location: Grapevine Plant

| Sieve Size | Cumulative Weight Retained | Percent Retained | Percent Passing | Sieve Specifications |
|------------|----------------------------|------------------|-----------------|----------------------|
| 3/8" | 0.0 | 0 | 100 | 100 |
| # 4 | 54.5 | 8.3 | 91.7 | 85 - 100 |
| # 8 | 449.1 | 68.4 | 31.6 | 10 - 40 |
| # 16 | 610.2 | 92.9 | 7.1 | 0 - 10 |
| # 50 | 639.8 | 97.4 | 2.6 | 0 - 5 |
| Pan | 656.7 | 100 | 0 | |

Test Methods: ASTM C 33

Technician: Jack Gary

Rone Engineering



Jack Gary
Special Testing