

TEST REPORT:

Static Coefficient of Friction Testing
of Pre-Cast Concrete Samples

REPORT TO:

CastCon-Stone, Inc.
47 Dutilh Road
P.O. Box 1770
Cranberry Twp., PA 16066-0770

ATTENTION:

Ms. Laura Huch

REPORT DATE:

August 28, 2002

RECEIVED

SEP 03 2002

CASTCON-STONE, INC

REPORT TO: CastCon-Stone, Inc. **PROJECT:** Static Coefficient of
47 Dutilh Road Friction Testing of
P.O. Box 1770 Pre-Cast Concrete
Cranberry Twp., PA 16066-0770 Samples

ATTENTION: Ms. Laura Huch **PSI PROJECT NO.:** 823-26156

DATE: August 28, 2002 **PSI LAB NO.:** SPT-20311

Professional Service Industries, Inc. (PSI) has performed testing on the referenced project. The results of our tests are presented in the accompanying report.

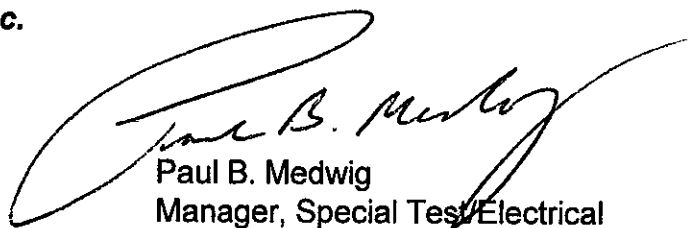
Our services for this project were performed in accordance with PSI Proposal No. 823-2401, Rev. A, dated August 26, 2002. The proposal included a proposed scope of services, estimated costs, unit rates, and PSI's General Conditions. Authorization to perform this project was in the form of signed acceptance of the aforementioned proposal, acknowledged August 26, 2002.

The results contained in this report are related only to the item(s) tested. The pages of this report (including attachments) shall not be reproduced, except in full, without written approval of PSI. All testing was conducted by and under the continuous, direct supervision of Professional Service Industries, Inc.

Please contact us should you have any questions concerning this report.

Respectfully submitted,
Professional Service Industries, Inc.


R. Scott Bischoff
Lab Technician, Special Test


Paul B. Medwig
Manager, Special Test/Electrical

9/5/02 Scott Bischoff
stated 1028 spec is
.45 - .55 minimum.
Higher is better.

Page 1 of 3

SCOPE OF SERVICES

General

On August 26, 2002, Professional Service Industries, Inc. (PSI) received sixteen (16) precast concrete samples, identified below, from CastCon-Stone, Inc. for the purpose of determining the static co-efficient of friction value of the samples. Testing was conducted on August 27, 2002.

Sample Identification

- ◆ With Traction Strip
- ◆ Smooth Form Finish
- ◆ High Sandblast Finish
- ◆ With Nosing Cast in

Test Equipment

Chatillon Model DRC 100 Digital Force Gauge – PSI Control #SPT 31

Test Procedure

Testing was performed in general accordance with ASTM C-1028-96, "Standard Test Method for Determining the Static Coefficient of Friction of Ceramic Tile and Other Like Surfaces by the Horizontal Dynamometer Pull-Meter Method".

RESULTS

Sample I.D.	As Received		Cleaned	
	Dry	Wet	Dry	Wet
With Traction Strip				
#1	0.54	0.69	0.56	0.71
#2	0.55	0.69	0.57	0.69
#3	0.57	0.70	0.60	0.73
Average	0.55	0.69	0.58	0.71



RESULTS

Sample I.D.	As Received		Cleaned	
	Dry	Wet	Dry	Wet
Smooth Form Finish				
#1	0.68	0.74	0.63	0.72
#2	0.60	0.76	0.66	0.77
#3	0.69	0.81	0.68	0.77
Average	0.66	0.77	0.66	0.75

Sample I.D.	As Received		Cleaned	
	Dry	Wet	Dry	Wet
High Sandblast Finish				
#1	0.84	0.89	0.80	0.91
#2	0.81	0.83	0.77	0.86
#3	0.79	0.83	0.79	0.82
Average	0.81	0.85	0.79	0.86

Sample I.D.	As Received		Cleaned	
	Dry	Wet	Dry	Wet
With Nosing Cast in				
#1	0.65	0.71	0.65	0.69
#2	0.65	0.70	0.64	0.69
#3	0.65	0.70	0.62	0.69
Average	0.65	0.70	0.64	0.69

