



Mr. Rob Avenell
 Tile Tech Pavers
 P.O. Box 5982
 Los Angeles, CA 90055

Re: Material Testing Services – pavers
 Heider Engineering File No. 110118

Dear Mr. Avenell,

Please find tabulated below the results of our testing of your concrete pavers. Testing was performed in accordance with the indicated ASTM testing procedures.

Sample ID: 12"x24"x2" Unground

HE Lab Nos.: 3698 - 3700

Sampled by: Tile Tech Pavers Personnel

Delivery Date: July 21, 2011

Compressive Strength ASTM C 140

Date Tested: July 22, 2011 Age of Sample: over 28 days

Lab No. Compressive Strength, psi

3698 10640

3699 10000

3700 10270

Ave. = 10300

If you need additional information, please contact us at your convenience.
 Respectfully submitted,



Steven Runyan, EIT.
 Staff Engineer



Dennis W. Heider, RCE
 Principal Engineer



Ph: (909) 673-0292

FAX: (909) 673-0272

800-A South Rochester Ave. Ontario, CA 91761-8171



Mr. Rob Avenell
 Tile Tech Pavers
 P.O. Box 5982
 Los Angeles, CA 90055

Re: Material Testing Services – pavers
 Heider Engineering File No. 110118

Dear Mr. Avenell,

Please find tabulated below the results of our testing of your concrete pavers. Testing was performed in accordance with the indicated ASTM testing procedures.

Sample ID: 12"x12"x2" Ground Top **HE Lab Nos.:** 3692 - 3697
Sampled by: Tile Tech Pavers Personnel
Delivery Date: July 21, 2011
Compressive Strength ASTM C 140, Flexural Strength ASTM C 293

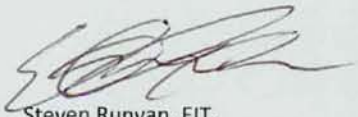
Date Tested: July 22, 2011 **Age of Sample:** over 28 days

<u>Lab No.</u>	<u>Compressive Strength, psi</u>
3692	11540
3693	11250
3694	<u>10830</u>
Ave. =	11210

Date Tested: July 22, 2011

<u>Lab No.</u>	<u>Flexural Strength, psi</u>
3695	1430
3696	1505
3697	<u>1330</u>
Ave. =	1420

If you need additional information, please contact us at your convenience.
 Respectfully submitted,


 Steven Runyan, EIT.
 Staff Engineer

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 Principal Engineer



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Mr. Rob Avenell
 Tile Tech Pavers
 P.O. Box 5982
 Los Angeles, CA 90055

Re: Material Testing Services – pavers
 Heider Engineering File No. 110118

Dear Mr. Avenell,

Please find tabulated below the results of our testing of your concrete pavers. Testing was performed in accordance with the indicated ASTM testing procedures.

Sample ID: 12"x24"x1.5" Charcoal **HE Lab Nos.:** 3689 - 3691
Sampled by: Tile Tech Pavers Personnel
Delivery Date: July 21, 2011
Compressive Strength ASTM C 140, Flexural Strength ASTM C 293

Date Tested: July 22, 2011 **Age of Sample:** over 28 days

<u>Lab No.</u>	<u>Compressive Strength, psi</u>	<u>Flexural Strength, psi</u>
3689	12590	1440
3690	13060	1465
3691	<u>13010</u>	<u>1295</u>
Ave. =	12890	1400

If you need additional information, please contact us at your convenience.
 Respectfully submitted,



Steven Runyan, EIT.
 Staff Engineer



Dennis W. Heider, RCE
 Principal Engineer

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Mr. Rob Avenell
Tile Tech Pavers
P.O. Box 5982
Los Angeles, CA 90055

Re: Material Testing Services – pavers
Heider Engineering File No. 110118

Dear Mr. Avenell,

Please find tabulated below the results of our testing of your concrete pavers. Testing was performed in accordance with the indicated ASTM testing procedures.

Sample ID: 12"x12"x2" Buffalo

HE Lab Nos.: 3765 - 3770

Sampled by: Tile Tech Pavers Personnel

Delivery Date: July 14, 2011

Compressive Strength ASTM C 140, Flexural Strength ASTM C 293

Date Tested: July 15, 2011 Age of Sample: over 28 days

Lab No. Compressive Strength, psi

3765 9330

3766 8710

3768 9870

Ave. = 9300

Date Tested: July 15, 2011

Lab No. Flexural Strength, psi

3765 1230

3766 1280

3768 995

Ave. = 1170

If you need additional information, please contact us at your convenience.
Respectfully submitted,



Steven Runyan, EIT.
Staff Engineer



Dennis W. Heider, RCE
Principal Engineer

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File No.: 31028

Lab No.: T-97-311

November 11, 1997

CLIENT: **TILE TECH, LLC**

5371 Wilshire Blvd., Suite #200

Los Angeles, CA 90036

Attn.: Paul Partovi

Subject: **12" x 12" x 1" thick Concrete Paver Tile, Textured Surface.**

Specification: ASTM C 936 / ASTM C 140 Compressive Strength (Modified)

Source: Submitted to Laboratory by Client.

REPORT of TEST
COMPRESSIVE STRENGTH TEST
Samples were dried-conditioned as specified then used tested accordingly.

Sample No.	Dimensions (In.)	Gross Area (sq. in.)	Max. Load (Lbs.)	Compressive Strength (PSI)
1	2.04 x 2.00	4.08	35,200	8,627
2	1.95 x 2.00	3.90	31,900	8,179
3	2.04 x 1.98	4.04	36,000	8,913
4	2.02 x 1.96	3.96	32,300	8,158
5	2.03 x 2.01	4.08	31,500	7,720

Average : **8,320** PSI

Requirement: ASTM C 936

The average compressive strength shall be not less than 8,000 PSI with no individual unit less than 7,200 PSI.

Respectfully Submitted,
SMITH-EMERY COMPANY

James E. Parker

Registered Civil Engineer No.: 41507

Registration Expires: 12-31-99

TC

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File No.: 31028

Lab No.: T-97-311

November 11, 1997

 CLIENT: **TILE TECH, LLC**

5371 Wilshire Blvd., Suite #200

Los Angeles, CA 90036

 Attn.: *Paul Partovi*

 Subject: **12" x 12" x1" thick Concrete Paver Tile, Textured Surface.**

Specification: ASTM C 293 - Modulus of Rupture Test (Modified for Required Size).

Source: Submitted to Laboratory by Client.

REPORT of TEST
MODULUS OF RUPTURE

Samples were cut, dried and conditioned as specified then tested accordingly.

Sample No.	Width (b) (In.)	Depth (d) (In.)	Max. Load (lbs.)	M. O. R. (PSI)
1	1.959	1.161	480	1,091
2	2.049	1.169	510	1,093
3	2.068	1.163	560	1,201
4	2.138	1.161	510	1,062
5	2.027	1.163	680	1,488

 Avg. M.O.R. = **1,187** PSI

Span = 4.0 inches

Respectfully Submitted,

SMITH-EMERY COMPANY


James E. Parker

Registered Civil Engineer No.: 41507

Registration Expires: 12-31-99

JEP:rc

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 File No. 34076
 Lab No. T-99-176 COMP

May 12, 1999

 CLIENT **TILE TECH, INC.**
 5371 Wilshire Blvd., Suite #200
 Los Angeles, CA 90036

 Subject: **Compressive Strength Test on 12" x 12" x 2" thick Concrete Tile "TILE TECH"**
(Dark Red: color)

Specification: ASTM C 936 / ASTM C 140 Compressive Strength (Modified)

Source: Submitted to Laboratory by Client

REPORT of TEST
COMPRESSIVE STRENGTH TEST
Samples were dried-conditioned as specified then tested accordingly.

Sample No.	Dimensions (in.)	Gross Area (sq. in.)	Max. Load (Lbs.)	Compressive Strength (PSI)
1	2.013 x 2.510	5.048	45,100	8,934
2	2.008 x 2.461	4.942	42,500	8,600
3	2.010 x 2.491	5.007	41,600	8,308
Average:				8,614 PSI

 Respectfully Submitted,
SMITH-EMERY COMPANY


 James E. Partidge
 President
 Registered Civil Engineer No. 21070
 Registration Expires 12/31/02



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 • Fax: (916) 374-0835

 File No. : 34076
 Lab. No. : T-99-176 COMP

May 12, 1999

 CLIENT: **SPEC CERAMICS, INC.**
 1804 North Orangethorpe Way
 Anaheim, CA 92801
 Attn.: Mr. Will Stapp

 Subject: **Compressive Strength Test on 12" x 12" x 2" thick Concrete Tile "TILE TECH"**
(Dark Red: color)

Specification: ASTM C 936 / ASTM C 140 Compressive Strength (Modified)

Source: Submitted to Laboratory by Client.

REPORT of TEST
COMPRESSIVE STRENGTH TEST
Samples were dried-conditioned as specified then tested accordingly.

Sample No.	Dimensions (In.)	Gross Area (sq. in.)	Max. Load (Lbs.)	Compressive Strength (PSI)
1	2.011 x 2.510	5.048	45,500	8,934
2	2.008 x 2.461	4.942	42,500	8,600
3	2.010 x 2.491	5.007	41,500	8,308
Average :				8,614 PSI

Respectfully Submitted,

SMITH-EMERY COMPANY


 James E. Partridge
 President
 Registered Civil Engineer No.: 25270
 Registration Expires: 12-31-01


TC

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File No.: 31028

Lab No.: T-95-244

November 17, 1995

 Client: **TILE TECH, INC.**
 5371 Wilshire Blvd., Suite 207
 Los Angeles, CA 90036
 Attn: John Haider

 Subject: **16" x 16" x 1-1/4" Cement Paver Tile.**
 Specification: ASTM C 936 & ASTM C 140
 Source : Submitted to Laboratory by Client.

Report of Tests
COMPRESSIVE STRENGTH TEST

Sample No.	Dimension (in. x in.)	Area (sq.in.)	Maximum Load, lbs.	Compressive Strength, PSI
1.	2.015x2.008	4.046	37,400	9,244
2.	1.995x1.953	3.896	39,300	10,087
3.	2.030x2.042	4.145	39,800	9,602
4.	2.035x2.030	4.131	37,800	9,150
5.	2.016x2.055	4.143	38,300	9,245

 Average : **9,466**
ASTM C 936 Requirement:

The average compressive strength of the tests shall be not less than 8,000 psi with no individual unit less than 7,200 psi.

 Respectfully Submitted,
SMITH-EMERY COMPANY


Edward C. Trasoras

Registered Civil Engineer, No.: 44233

Registration Expires: 06-30-97

ECT:rc


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File No.: 31028

Lab No.: T-95-244

November 17, 1995

 Client: **TILE TECH, INC.**

5371 Wilshire Blvd., Suite 207

Los Angeles, CA 90036

Attn: John Haider

 Subject: **16" x 16" x 1-1/4" Cement Paver Tile. (Gray)**

Specification: ASTM C 293 - Concrete Modulus of Rupture (Modified for Size)

Source : Submitted to Laboratory by Client.

Report of Tests
Modulus of Rupture

Five cut samples were conditioned in a controlled chamber at 70° F ±3°F and 50% R.H.; then tested accordingly.

Span = 4.00"

Sample No.	Avg. Width (in.)	Avg. Depth (in.)	Max. Load (lbs.)	Modulus of Rupture, PSI
1.	1.970	1.419	985	1,490
2.	2.022	1.402	1,020	1,540
3.	2.012	1.412	1,030	1,541
4.	2.005	1.400	980	1,496
5.	1.987	1.405	1,020	1,560

 Average : **1,525**

Requirement:

As per client design requirement.

Respectfully Submitted,

SMITH-EMERY COMPANY


Edward C. Trasofas

Registered Civil Engineer, No.: 44233

Registration Expires: 06-30-97

ECT:rc


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File No.: 31028

Lab No.: T-95-244 SKD-2

November 21, 1995

 Client: **TILE TECH, INC.**

5371 Wilshire Blvd., Suite 207

Los Angeles, CA 90036

Attn: John Haider

 Subject: **16" x 16" x 1-1/4" Concrete Paver Tile. Treated w/ 511 Porous Plus**

Specification: ASTM C 1028 - 89

Source : Submitted to Laboratory by Client.

Report of Tests
STATIC COEFFICIENT OF FRICTION (ASTM C 1028-89)

A block of wood with a 3" x 3" x 1/8" section of standard neolite sole liner attached was placed on the surface to be tested. A 50 pound (22kg) weight was placed on the block of wood. Using dynamometer, the force in pounds required to cause the test assembly to slip parallel to the test surface was measured. Four measurements were taken on each of three test surfaces, each measurement perpendicular to the previous one. The twelve measurements were averaged to obtain the coefficient of friction for each test condition.

A. As Received (Treated w/ 511 Porous Plus)

Test Condition	Tile No.	N	E	S	W	Average	Individual Static Coefficient of Friction (fc)	S.C.O.F After Neolite Correction Factor
Dry Neolite	1	45	44	45	43	44.00	0.86	(0.86)
	2	45	45	43	44			
	3	43	44	42	45			
Wet Neolite	1	37	37	38	37	37.25	0.73	(0.70)
	2	37	38	38	38			
	3	36	38	37	36			

B. After Cleaning with Hilliards Renovator.

Dry Neolite	1	45	45	44	45	45.00	0.88	(0.88)
	2	45	46	45	46			
	3	45	44	45	45			
Wet Neolite	1	38	39	37	39	38.17	0.74	(0.71)
	2	39	39	38	38			
	3	37	39	38	37			

Respectfully Submitted,

SMITH-EMERY COMPANY


Edward C. Trasoras

Registered Civil Engineer, No.: 44233

Registration Expires: 06-30-97

ECT:rc

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File No.: 31028

Lab No.: T-95-244 SKD-1

November 21, 1995

 Client: **TILE TECH, INC.**

5371 Wilshire Blvd., Suite 207

Los Angeles, CA 90036

Attn: John Haider

 Subject: **16" x 16" x 1-1/4" Concrete Paver Tile.**

Specification: ASTM C 1028 - 89

Source : Submitted to Laboratory by Client.

Report of Tests
STATIC COEFFICIENT OF FRICTION (ASTM C 1028-89)

A block of wood with a 3" x 3" x 1/8" section of standard neolite sole liner attached was placed on the surface to be tested. A 50 pound (22kg) weight was placed on the block of wood. Using dynamometer, the force in pounds required to cause the test assembly to slip parallel to the test surface was measured. Four measurements were taken on each of three test surfaces, each measurement perpendicular to the previous one. The twelve measurements were averaged to obtain the coefficient of friction for each test condition.

A. As Received

Test Condition	Tile No.	N	E	S	W	Average	Individual Static Coefficient of Friction (fc)	S.C.O.F After Neolite Correction Factor
Dry Neolite	1	40	41	41	39	40.17	0.78	(0.78)
	2	40	40	41	40			
	3	39	40	40	41			
Wet Neolite	1	38	37	37	38	37.17	0.73	(0.70)
	2	37	38	37	36			
	3	38	36	37	37			

B. After Cleaning with Hilliards Renovator.

Dry Neolite	1	42	42	42	42	42.00	0.82	(0.82)
	2	42	43	42	43			
	3	41	41	42	42			
Wet Neolite	1	37	38	37	38	37.83	0.74	(0.71)
	2	39	37	39	38			
	3	38	39	37	37			

Respectfully Submitted,

SMITH-EMERY COMPANY


Edward C. Trasoras

Registered Civil Engineer, No.: 44233

Registration Expires: 06-30-97

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File No.: 31028

Lab No.: T-95-244

November 17, 1995

 Client: **TILE TECH, INC.**

5371 Wilshire Blvd., Suite 207

Los Angeles, CA 90036

Attn: John Haider

 Subject: **16" x 16" x 1-1/4" Cement Paver Tile. (Gray)**

Specification: ASTM C 936 & ASTM C 140

Source : Submitted to Laboratory by Client.

Report of Tests
Water Absorption

Five cut samples were immersed in clean potable water at room temperature (70° F ±10°F) for not less than 24 hrs. Samples then was removed from water, drained for 1 minute, damped dry any excess water and weighed; after which were dried in a well ventilated oven at 212° F - 239° F for 24 hours or until an approximate constant weight was achieved.

Sample No.	Wet Weight (grams)	Dried Weight (grams)	Compressive Strength, PSI
1.	831.8	795.9	4.51%
2.	876.0	833.4	5.11%
3.	868.1	829.0	4.72%
4.	873.4	831.8	5.00%
5.	874.1	828.9	5.45%

 Average : **4.96%**
ASTM C 936 Requirement:

The average absorption shall not be greater than 5% with no individual unit in excess of 7%.

Respectfully Submitted,

SMITH-EMERY COMPANY


Edward C. Trasoras

Registered Civil Engineer, No.: 44233

Registration Expires: 06-30-97

ECT:rc

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File No.: 31028

June 16, 1997

Lab No.: T-97-208 BRK

 Client : **TILE TECH, INC.**
5371 Wilshire Blvd., Suite 207
Los Angeles, CA 90036
 Attn.: Mr. Jean Haider

 Subject: **16" x 16" x 1-3/8" thick Concrete Paver Tile (Grey color; Two layer construction)**

Specification : ASTM C 648

Source : Submitted to Laboratory by Client.

Report of Test
BREAKING STRENGTH (ASTM C 648)

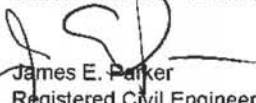
The tile samples were placed on a test fixture having three (3) supports located in a circle three and fifteen-thirty-secondths (3-15/32) inches in diameter with the load applied at the center as per specifications.

Breaking Load (Lbs.)

One Sample Only - 2,500 pounds

Requirements : ANSI A 137.1 (General) Breaking Strength; When tested as described.

In ASTM C-648, the average breaking strength shall be 250 pounds or greater.

 Respectfully Submitted,
SMITH-EMERY COMPANY


 James E. Parker
 Registered Civil Engineer No. 41507
 Registration Expires : 12-31-99

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 File No.: 31028
 Lab No.: T-99-116

February 1, 1999

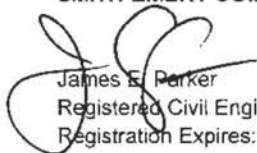
 CLIENT: **TILE TECH, LLC**
 5371 Wilshire Blvd., Suite #200
 Los Angeles, CA 90036
 Attn.: George Mousa

 Subject: **12" x 24" x 1.5" thick Concrete Paver Tile, Textured Surface.**
 Specification: ASTM C 936 / ASTM C 140 Compressive Strength (Modified)
 Source: Submitted to Laboratory by Client.

REPORT of TEST
COMPRESSIVE STRENGTH TEST
Samples were dried-conditioned as specified then used tested accordingly.

Sample No.	Dimensions (In.)	Gross Area (sq. in.)	Max. Load (Lbs.)	Compressive Strength, (PSI)
1	2.555 x 2.53	6.47	47,400	7,330
2	2.518 x 2.55	6.41	53,700	8,376

 Average : **7,853** PSI

 Respectfully Submitted,
SMITH-EMERY COMPANY


 James E. Parker
 Registered Civil Engineer No.: 41507
 Registration Expires: 12-31-99

rc

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The Full Service Independent Testing Laboratory, Established 1904

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File No.: 31028

Lab No.: T-99-111

January 27, 1999

 CLIENT: **TILE TECH, LLC**
 5371 Wilshire Blvd., Suite #200
 Los Angeles, CA 90036
 Attn.: George Mousa

 Subject: **Various Concrete Paver Tile, Textured Surface.**
 Specification: ASTM C 936 / ASTM C 140 Compressive Strength (Modified)
 Source: Submitted to Laboratory by Client.

REPORT of TEST
COMPRESSIVE STRENGTH TEST
Samples were dried-conditioned as specified then used tested accordingly.

Sample Description	Dimensions (In.)	Gross Area (sq. in.)	Max. Load (Lbs.)	Compressive Strength, (PSI)
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A. Cut to 2.5" x 2.5" Surface Area

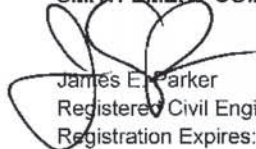
12"x24" (Peach)	2.510 x 2.503	6.28	33,200	5,287
Octagon	2.463 x 2.500	6.16	34,300	5,568
16"x16"	2.493 x 2.520	6.28	43,900	6,990
16"x16"	2.477 x 2.473	6.13	51,200	8,352

B. Cut to 1-3/8" x 1-3/8" Surface Area

12"x24" (Peach)	1.363 x 1.386	1.89	8,700	4,603
Octagon	1.404 x 1.388	1.95	8,000	4,103
16"x16"	1.357 x 1.359	1.84	10,000	5,435
16"x16"	1.344 x 1.370	1.84	13,400	7,283

Requirement: ASTM C 936

The average compressive strength shall be not less than 8,000 PSI with no individual unit less than 7,200 PSI.

 Respectfully Submitted,
SMITH-EMERY COMPANY


 James E. Parker
 Registered Civil Engineer No.: 41507
 Registration Expires: 12-31-99

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