



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

<u>Lab No.</u>	<u>Compressive Strength, psi</u>
3698	10640
3699	10000
3700	<u>10270</u>
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 9171



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

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

Date Tested: July 22, 2011

Lab No.	Flexural Strength, psi
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

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"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
Lab No.	Compressive Strength, psi	Flexural Strength, psi
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

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" 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

<u>Lab No.</u>	<u>Compressive Strength, psi</u>
3765	9330
3766	8710
3768	<u>9870</u>
Ave. =	9300

Date Tested: July 15, 2011

<u>Lab No.</u>	<u>Flexural Strength, psi</u>
3765	1230
3766	1280
3768	<u>995</u>
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

Ph: (909) 673-0292

FAX: (909) 673-0272

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



SMITH-EMERY COMPANY
The Full Service Independent Testing Laboratory, Established 1904

781 East Washington Boulevard
 P.O. Box 880550, Hunter's Point Shipyard Bldg 114
 5427 East La Palma Avenue

- Los Angeles, California 90021
- San Francisco, California 94188
- Anaheim, California 92807
- (213) 749-3411
- (415) 330-3000
- (714) 693-1026
- Fax: (213) 746-7228
- Fax: (415) 330-3030
- Fax: (714) 693-1034

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.

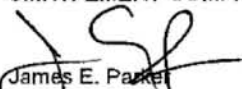
Sample No.	Dimensions (In.)	Gross Area (sq. in.)	Max. Load (Lbs.)	Compressive Strength (PSI)
1	2.04 x 2.00	4.08	35,200	8,627
2	1.95 x 2.00	3.90	31,900	8,179
3	2.04 x 1.98	4.04	36,000	8,913
4	2.02 x 1.96	3.96	32,300	8,158
5	2.03 x 2.01	4.08	31,500	7,720

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

ALL REPORTS ARE SUBMITTED AS THE CONFIDENTIAL PROPERTY OF CLIENTS. AUTHORIZATION FOR PUBLICATION OF OUR REPORT, CONCLUSIONS, OR EXTRACTS FROM OR REGARDING THEM IS RESERVED PENDING OUR WRITTEN APPROVAL AS A MUTUAL PROTECTION TO CLIENTS, THE PUBLIC AND OURSELVES.



SMITH-EMERY COMPANY

The Full Service Independent Testing Laboratory, Established 1904

781 East Washington Boulevard
 P.O. Box 880550, Hunter's Point Shipyard Bldg 114
 5427 East La Palma Avenue

• Los Angeles, California 90021
 • San Francisco, California 94188
 • Anaheim, California 92807

• (213) 749-3411
 • (415) 330-3000
 • (714) 693-1026

• Fax: (213) 746-7228
 • Fax: (415) 330-3030
 • Fax: (714) 693-1034

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 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

ALL REPORTS ARE SUBMITTED AS THE CONFIDENTIAL PROPERTY OF CLIENTS. AUTHORIZATION FOR PUBLICATION OF OUR REPORT, CONCLUSIONS, OR EXTRACTS FROM OR REGARDING THEM IS RESERVED PENDING OUR WRITTEN APPROVAL AS A MUTUAL PROTECTION TO CLIENTS, THE PUBLIC AND OURSELVES.



SMITH-EMERY COMPANY

The Full Service Independent Testing Laboratory, Established 1904

751 East Washington Boulevard P.O. Box 880550, Hunter's Point Shipyard Bldg. #1 21795 Sausalito Parkway, Suite B 2527 Del Monte Street	• Los Angeles, California 90021 • San Francisco, California 94168 • Yorba Linda, California 92687 • West Sacramento, California 95691	(714) 49-3411 (415) 330-3000 (714) 421-8528 (916) 774-0734	• Fax: (213) 746-7228 • Fax: (415) 330-3030 • Fax: (714) 921-4264 • Fax: (916) 774-0835
---	--	---	--

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	2.011 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. 20070
Registration Expires 12/31/02



ALL REPORTS ARE SUBMITTED AS THE CONFIDENTIAL PROPERTY OF CLIENTS. AUTHORIZATION OF PUBLICATION OF OUR REPORT CONCLUSIONS, OR EXTRACTS FROM THEM REGARDING THEM IS RESERVED PENDING OUR WRITTEN APPROVAL AS A MATTER OF PROTECTION TO OUR CLIENTS, THE PUBLIC AND OURSELVES.

