



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.: 33351
Lab No.: T-97-284 (MOR)

December 18, 1997

Client: **CAL-GA-CRETE INDUSTRIES, INC.**
803 Miraflores
San Pedro, CA 90731
Attn.: *Karl Jakel*

Subject: **12" x 12" x 3/4" Thick Concrete Paver Tile (Red Clay color).**

Specification: ASTM C 674 (Adapted Test Method)

Source: Submitted to Laboratory by Client.

MODULUS OF RUPTURE OF CERAMICS (ASTM C 674 * Modified)

Samples were * cut to 5" x 1" x thickness and dried at 140 ° F for 24 hours. After cooling to room temperature, samples were tested with results as follows

<i>Tile No.</i>	<i>Width Average (In.)</i>	<i>Thick Average (In.)</i>	<i>Load (lbs.)</i>	<i>Modulus of Rupture (PSI)</i>
1	1.007	0.808	140	1,278
2	1.016	0.796	142	1,323
3	1.005	0.800	168	1,567
4	1.000	0.802	130	1,213
5	1.032	0.798	164	1,497

Average 1376

(Maximum Span : 4.0 in.)

Remarks: No ANSI A1 137.1 requirements.

Respectfully Submitted,
SMITH - EMERY COMPANY

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

JEP:rc