



SMITH-EMERY COMPANY

The Full Service Independent Testing Laboratory, Established 1904

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File No.: 33351
Lab No.: T-97-284 (WTR-Addendum)

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). (12-5-97 Submittal)**
Specification : ASTM C 373
Source : Submitted to Laboratory by Client.

WATER ABSORPTION TEST (ASTM C 373)

Samples were dried to a constant weight in an oven at 140°F, then cooled and weighed. Then were immersed in distilled water (boiling vigorously for 5 hours before cooling gradually to total elapsed time of 29 hours). Samples were removed, wiped dry and immediately reweighed.

Sample No.	Dry Weight (grams)	Wet Weight (grams)	Percent Water Absorption	Average
1.	365.0	395.9	8.47%	
2.	369.8	396.9	7.33%	
3.	420.1	455.1	8.33%	7.75%
4.	370.9	397.1	7.06%	
5.	292.9	315.1	7.58%	

Requirements: ANSI A 137.1 (General) - When tested as described in ASTM C 373, the tile in the sample shall be impervious for porcelain paver tile and shall be impervious, vitreous or semi-vitreous for natural clay paver tile.

- Impervious Tile (0.5% or less Water Absorption)
- Vitreous Tile (0.5% - 3.0% Water Absorption)
- Semi-Vitreous (3.0% - 7.0% Water Absorption)
- Bisque Wall Tile (Max. 20.00% Water Absorption)

Remark : Sample Tested are within Wall Tile Requirements.

Respectfully Submitted,
SMITH - EMERY COMPANY

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

TC