



SMITH-EMERY LABORATORIES

An Independent Commercial Testing Laboratory, Established 1904

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Proj /Job No : 37139-1
Lab No.: T-08-006

February 22, 2008

Client : **GREG FILLO**
BEDROSIANS
1515 E. WINSTON ROAD
ANAHEIM, CA 92805-6445

Project: **TCR ROC 36R = 12" x 24" Rocco Lebatto = Rust Porcelain Tiles (Made in China)**
Subject: Bond Strength of Ceramic Tile to Portland Cement Paste
Specification : ASTM C 482
Source : Submitted to Laboratory by Client.

Report of Tests

BOND STRENGTH (ASTM C 482)

Five (5) tiles were trimmed to a size of 4 inches in one direction by 4 inches in the opposite facial direction. Tiles were installed with cement paste on a fresh mortar bed and aged for seven days prior testing. Mortar bed molds were filled with mortar consisting of: *(All parts by mass)*

- 1 Part Portland Cement
- 3.3 Part of Dry Standard Ottawa Sand
- 0.5 Part Portable Water

Width of Tile = 4.0 inches
Length of Tile = 4.0 inches
Area = 16.00 square inches

Tile No.	Load lbs.	Bond Strength (PSI)	Type of failure
1	4,090	256	100 % bond coat to tile, 0 % bond coat to mortar bed.
2	4,539	284	100 % bond coat to tile, 0 % bond coat to mortar bed.
3	4,567	285	100 % bond coat to tile, 0 % bond coat to mortar bed.
4	4,385	274	100 % bond coat to tile, 0 % bond coat to mortar bed.
5	4,268	267	100 % bond coat to tile, 0 % bond coat to mortar bed.

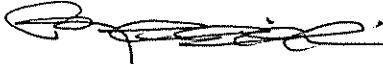
Average PSI: 273

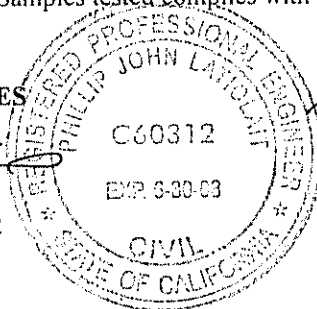
Requirements: The Average bond strength of the tile in the sample shall be 50 PSI or greater.

Remarks: Samples tested complies with the minimum requirement.

Respectfully Submitted,

SMITH - EMERY LABORATORIES


P. John Latiolait
Registered Civil Engineer No C60312
Registration Expires: 06-30-08



- Materials Tested Comply With Specifications.
- Materials Tested Did Not Comply With Specifications.
- No Established Criteria for Acceptable Limits.

dp

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