



# 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 30T = 12"x 12" Rocco Lebatto= Tobbaco 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	5,442	340	100 % bond coat to tile, 0 % bond coat to mortar bed.
2	6,103	381	100 % bond coat to tile, 0 % bond coat to mortar bed.
3	5,229	327	100 % bond coat to tile, 0 % bond coat to mortar bed.
4	4,190	262	100 % bond coat to tile, 0 % bond coat to mortar bed.
5	5,014	313	100 % bond coat to tile, 0 % bond coat to mortar bed.

Average PSI: 325

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

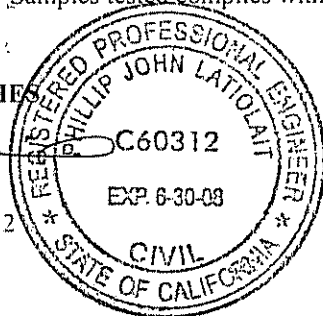
**Remarks:** Samples tested complies with the minimum requirement

Respectfully Submitted,

SMITH - EMERY LABORATORIES

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

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

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