



# SMITH-EMERY LABORATORIES

An Independent Commercial Testing Laboratory, Established 1904

781 E. Washington Boulevard Los Angeles, California 90021 ♦ (213) 749-3411 ♦ Fax (213) 741-8626

Proj No : 37139-1  
Lab No : T-07-144

August 20, 2007

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

Subject: (TCR MGM 4) 1" x 1" Glass Mosaic Pebble-Grey/Blue  
Specification : ASTM C-650 (Qualitative Observation Only)  
Source : Submitted to Laboratory by Client.

### Report of Tests

#### CHEMICAL RESISTANCE OF CERAMIC TILE (ASTM C 650)

Exposure time : 24 hours

Room temperature : 75.5 °F

<u>Tile Number</u>	<u>Acid 10% HCL</u>	<u>Alkali 10% KOH</u>
1.	Unaffected	Unaffected
2.	Unaffected	Unaffected
3.	Unaffected	Unaffected
4.	Unaffected	Unaffected
5.	Unaffected	Unaffected
6.	Unaffected	Unaffected

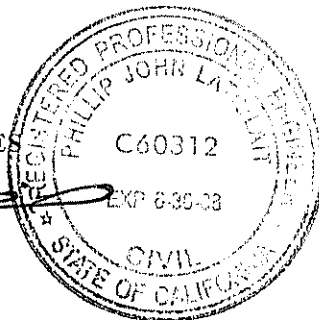
Requirements : No Requirement

Remarks : Sample Tested Shows no Physical Damage After Test

Respectfully Submitted,

SMITH - EMERY LABORATORIES

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



- The materials tested comply with specifications.
- The materials tested did not comply with specification.
- No established criteria for acceptable limits.

dp

CC: BEDROSIANS; SMITH-EMERY LABORATORIES



Project/Job No.: 37139-1  
 Laboratory No.: T-07-114

August 20, 2007

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

Subject: (TCR MGM 4) 1" x 1" Glass Mosaic Pebble Grey/Blue  
 Specification: Standard Methods of Sampling and Testing Ceramic Veneer, Section 6.  
 Source: Submitted to Smith-Emery Laboratories by Client on August 1, 2007  
 Date Tested: 8/6/07

Report of Tests

CRAZING TEST - ASTM C 126-99 SECTION 16.4

*Procedure*

Five (5) samples were placed in an autoclave using distilled water. The steam pressure was raised to 150 PSI as specified, and retained for 1 hour before turning off the heat source and releasing the steam pressure immediately by opening the blow-off valve. The samples were removed and inspected using an ink solution applied to the glazed surface. Results are as follows:

<i>Sample I.D.</i>	<i>Number of Cycles</i>	<i>Pressure PSI</i>	<i>Observation of Tile</i>
1	1	150	All Spalled

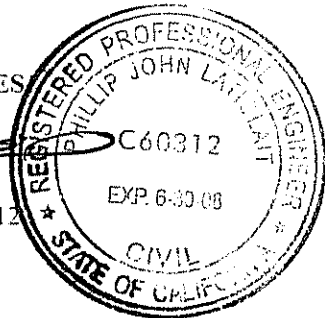
**Requirement:** *Resistance to crazing - The glaze shall not craze, spall, or crack when subjected to one cycle of autoclaving in the crazing test*

*Note: Steam released thirty minutes*

Respectfully Submitted,

SMITH-EMERY LABORATORIES

P. John Latiolais  
 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.
- For information only.

dp

CC: BEDROSIANS; SMITH-EMERY LABORATORIES