



PRODUCT TESTING SERVICE

100 Clemson Research Blvd. • Anderson, SC 29625 • Tel (864) 646-TILE • Fax (864) 646-2821

TCNA TEST REPORT NUMBER: TCNA-141-12

PAGE: 1 OF 1

TEST REQUESTED BY:

Arto Brick/California Pavers
Att: Armen Alajian
15209 So Broadway St
Gardena, CA 90248

TEST SUBJECT MATERIAL:

Identified by client as: Western Quarry Monrovia Un-Glazed

TEST DATE:

3/27/12

TEST PROCEDURE:

ASTM C648: "Standard Test Method for Breaking Strength of Ceramic Tile"

- Ten whole glazed tiles were tested.
- The tiles were loaded at a rate of 1000 pounds per minute.
- A one and a half inch triangular support was used to hold the tiles during loading.
- Testing was performed on an Instron Universal Tester, model #3385-H

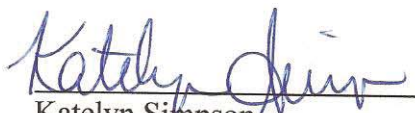
TEST RESULTS:

The average breaking strength of ten (10) tiles was: 1011 lbf.

The individual results of breaking strength are as follows:

Specimen 1: 1010 lbf
Specimen 2: 1011 lbf
Specimen 3: 1012 lbf
Specimen 4: 1013 lbf
Specimen 5: 1007 lbf
Specimen 6: 1012 lbf
Specimen 7: 1012 lbf
Specimen 8: 1009 lbf
Specimen 9: 1007 lbf
Specimen 10: 1015 lbf

[The ANSI A137.1 Specification for Quarry Tile states: "the average breaking strength shall be 250 lbf or greater with no individual specimen below 225 lbf."]



Katelyn Simpson
Laboratory Manager

3/29/12
Date