



# TILE INSTITUTE of AMERICA

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TIA's Client: 20230928 BREAKING STRENGTH  
November 30, 2023

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Tile: **RAINFOREST Series** (Item Description & Tile Color Name) Factory "AB-9". Nominal size: Porcelain Tile.

- AMAZON 6"x6"
- AMAZON 6"x6" SBN
- AMAZON 1"x2"
- CONGO 6"x6"
- CONGO 6"x6" SBN
- CONGO 1"x2"
- OLYMPIC 6"x6"
- OLYMPIC 6"x6" SBN
- OLYMPIC 1"x2"

Specification: ASTM C 648

Source: New Tiles submitted by Client to Laboratory and in sealed manufacturer's boxes selected at random from unopened containers.

## Report of Test

### **BREAKING STRENGTH (ASTM C 648)**

Standard Test Method for Breaking Strength of Tile. This method provides the means for establishing whether or not this tile meets the strength requirements, which may appear in tile specifications. Tile strength is the force in pounds-force (or Newton's), as read from the pressure gauge, necessary to cause the tile to break. The load was applied at the rate of 1000 lbf/min. The larger tile samples were placed on a test fixture having three (3) supports ( $\frac{3}{8}$ " diameter stainless steel balls spaced in a circle of  $3\frac{1}{2}$ " inches in diameter), the smaller ( $\frac{1}{8}$ " diameter stainless steel balls spaced in a circle of 0.645" inches in diameter), with the load applied at the center as per specifications.

**Requirements:** ANSI A 137.1 (General) Breaking Strength. When tested as described in ASTM C 648, the average breaking strength for glazed wall tile shall be 90 lbs. or greater and for glazed paver tile 250 pounds or greater.

The tile types and categories listed above yielded test values greater than Industry's requirements.

Test Results: **Passed**

Sincerely,

Gerald M. Halweg, CTC, CSI, TTA.  
President/CEO of TILE INSTITUTE of AMERICA