



# TILE INSTITUTE of AMERICA

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TIA's Client: 20230928 Bond Shear  
December 4, 2023

**AquaBella/Main Street Art, Inc.**  
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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"

Conditions: New tiles were sent to TILE INSTITUTE of AMERICA in sealed manufacturer's boxes from client above and selected at random.

The porcelain tiles were bonded to concrete units with ANSI A118.4, 11, & 15 latex-modified (thin set) bonding mortar.

Specification: ASTM C 482

Report of Test

## **ADHESION BOND SHEAR STRENGTH (\*ASTM C 482)**

Standard Test Method for Bond Strength of Tile. This method provides the means for establishing whether this tile can be bonded with adequate strength to resin-based Portland cement, which may appear in tile specifications. Tile bond adhesion strength is the force in pounds-force (or Newton's), as read from the pressure gauge, necessary to cause the tile's bond to shear. The load was applied at the rate of 1000 lbf/min. The tile samples were placed on a test fixture as per specifications after curing for 28 days. \*Modified by using a Latex-modified (resin-enhanced) thin set mortar bond coat complying with ANSI A108.4, 11, or 15 as identified and recommended within Industry's Standards versus pure cement bond coat.

**Requirements:** ANSI A 137.1 (General) Bond Strength. When evaluated as described in ASTM C 482, the average bond strength shall be 50 pounds per square inch or greater. The UBC requires a shearing stress of 50 psi. The DSA/SS & OSHPD 1 requires 50 psi and bond strength of 100 psi.

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

Test Results: **Passed**

Sincerely,

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