



TILE INSTITUTE of AMERICA

1262 Bouquet Circle, Thousand Oaks, California 91362 Telephone: (805) 371-TILE (8453) Facsimile: (805) 371-8455

TIA's Client: 20160415

AquaBella/Main Street Art, Inc.
Mr. Brian L. Streadbeck
450 South Alpine Highway
Alpine, Utah 84004

Telephone: (714) 264-8269 Facsimile: (714) 685-0465
brian@msagallery.com

Tile: **Shimmer Series, color mottled "SH-1191 Bermuda Blend" glass body, fiber-mesh back mounted.**
Nominal size: 1" x 1" x 1/4" Pattern. Tile made in China.

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

The tiles were bonded between concrete units and bonding mortar with latex-modified thin set mortar.
Specification: ASTM C 482

Report of Test

ADHESION BOND SHEAR STRENGTH (*ASTM C 482)

Standard Test Method for Bond Strength of Ceramic Tile. This method provides the means for establishing whether or not this tile can be bonded with adequate strength to 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. * Modified by using a bond coat as identified versus pure cement.

Sample #	Days Cured	Bonding Material	Sq. Inches	Load Pound	PSI	Failure %
1	28 Dry	Latex-modified thin set mortar	36	2232	62	T/m-100%
2	28 Dry	Latex-modified thin set mortar	36	2268	63	T/m-100%
3	28 Dry	Latex-modified thin set mortar	36	2088	58	T/m-100%
4	28 Dry	Latex-modified thin set mortar	36	2412	67	T/m-100%
5	28 Dry	Latex-modified thin set mortar	36	2268	63	T/m-100%
Average				2253.6	62.6	PASS

Requirements: ANSI A 137.1 (General) Bond Strength. When tested as described in ASTM C 482, the average bond strength shall be 50 pounds per square inch or greater.

Test Results: **Pass**

Sincerely,

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

Date: June 25, 2016