



TILE INSTITUTE of AMERICA

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(805) 444-(TILE) 8453 DoctorTile@aol.com or DoctorTile1@gmail.com

TIA's Client: 20260406 **BREAKING STRENGTH**
April 30, 2026

AquaBella/Main Street Art, Inc.
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11906 Brittmoore Park Dr.
Houston, Texas 77041

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Tile: **MANHATTAN** Series (Item Description & Tile Color Name) Factory **A-24**. Nominal size: Glass Tile.

- **BROADWAY 1"x2"**
- **BROADWAY 2"x3"**
- **GRAND CENTRAL 1"x2"**
- **GRAND CENTRAL 2"x3"**
- **PENN STATION 1"x2"**
- **PENN STATION 2"x3"**
- **TIMES SQUARE 1"x2"**
- **TIMES SQUARE 2"x3"**
- **UNION SQUARE 1"x2"**
- **UNION SQUARE 2"x3"**

Test Results: **All Passed**

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

Specification: ASTM C 648 Source: New Tiles submitted by Client to Laboratory and selected at random.

stainless steel balls spaced in a circle of 3¹/₃₂" inches in diameter), the smaller (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.

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 (3/8" diameter).

Sincerely,

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