



# TILE INSTITUTE of AMERICA

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## Tile: Aurora Borealis Series

AB-1110 - CRYSTAL 1X1	AB-1210 - CRYSTAL 1X2	AB-2210 - CRYSTAL 2X2
AB-1111 - MARVEL 1X1	AB-1211 - MARVEL 1X2	AB-2211 - MARVEL 2X2
AB-1112 - MYSTIC 1X1	AB-1212 - MYSTIC 1X2	AB-2212 - MYSTIC 2X2
AB-1113 - MAGIC 1X1	AB-1213 - MAGIC 1X2	AB-2213 - MAGIC 2X2
AB-1114 - WONDER 1X1	AB-1214 - WONDER 1X2	AB-2214 - WONDER 2X2

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

The tile 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 after curing for 28 days. \*Modified by using a Latex-modified thin set mortar bond coat complying with ANSI A108.4 as identified versus pure cement.

**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. 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 Industry's requirements.

Test Results: **Passed**

Sincerely,

Gerald M. Halweg, CTC, CSI, FTA. Date: July 1, 2021  
President/CEO of TILE INSTITUTE of AMERICA