



TILE INSTITUTE of AMERICA

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TIA's Client: 20201228 BS

Aquabella USA, LLC
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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.

TEST CONDUCTED:

RESISTANCE TO FREEZE-THAW CYCLING (ASTM C 1026)

Standard Test Method for Measuring the Resistance of Ceramic Tile to Freeze-Thaw Cycling.
Ten Specimens were placed into the freezing chamber to 0°F (-18°C) within a period of 6-8 hours and placed into water that was at a temperature from 50° to 60°F (10° to 16°C) for ≥30 minutes.

Requirements: After 15 Cycles

The units are to show no evidence of Failure to Body or Surfaces.

No evidence of Disintegration.

Damage to the specimen is reported with the abbreviation as follows:

Cz = crazing, Ch = Chipping, Sp = spalling, Bc = body checks, Cr = cracks.

Results: All units described above have **PASSED**.

Sincerely,

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