



TILE INSTITUTE of AMERICA

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TIA's Client: 20201228 FT

**Aquabella USA, LLC Mr.
Brian L. Streadbeck 450 South
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84004
Tile: North Seas Series**

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NS-113 Caspian, NS-114 Norwegian, NS-115 Irish, NS-119 Adriatic, NS-120 Denmark, NS-1225 Arctic, NS-1219 Adriatic, NS-1220 Denmark, NS-1215 Irish, NS-1217 Baltic, NS-1216 Celtic, NS-1214 Norwegian, NS-1213 Caspian, NS-1212 Iceland, NS-1211 Greenland, NS-1210 Polar, NS-110 Polar, NS-111 Greenland, NS-112 Iceland.

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