



TILE INSTITUTE of AMERICA

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TIA's Client: 20201228 BS

Aquabella USA, LLC
Mr. Brian L. Streadbeck 450
South Alpine Highway Alpine,
Utah 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.

Specification: ASTM C 648

Source: Tiles submitted by Client to Laboratory and selected at random from unopened containers.

Report of Test

BREAKING STRENGTH (ASTM C 648)

Standard Test Method for Breaking Strength of Ceramic 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 tile samples were placed on a test fixture having three (3) supports located in a circle three and fifteen-thirty-seconds ($3\frac{15}{32}$) 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 and for glazed paver tile 250 pounds or greater.

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

Test Results: **Passed**

Sincerely,

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