



TILE INSTITUTE of AMERICA

## TILE INSTITUTE of AMERICA

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**Tile: North Seas Series**

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.

The tiles 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, TTA. Date: July 1, 2021

President/CEO of TILE INSTITUTE of AMERICA