

TILE INSTITUTE of AMERICA

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TIA's Client: 20201228 BS

Aquabella USA, LLC
Mr. Brian L. Streadbeck
450 South Alpine Highway
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Tile: Fjord Series

FJ-1160 - SERENE 1X1	FJ-1199 - MISTY 1X1	FJ-1298 - SILENT 1X2
FJ-1161 - TRANQUIL 1X1	FJ-1260 - SERENE 1X2	FJ-1299 - MISTY 1X2
FJ-1162 - GRAND 1X1	FJ-1261 - TRANQUIL 1X2	FJ-893 - PEACEFUL BLOCK RANDOM
FJ-1193 - PEACEFUL 1X1	FJ-1262 - GRAND 1X2	FJ-897 - MAJESTIC BLOCK RANDOM
FJ-1197 - MAJESTIC 1X1	FJ-1293 - PEACEFUL 1X2	FJ-898 - SILENT BLOCK RANDOM
FJ-1198 - SILENT 1X1	FJ-1297 - MAJESTIC 1X2	FJ-899 - MISTY BLOCK RANDOM

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.

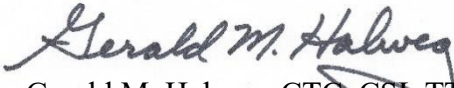
*Modified by using a Latex-modified thin set mortar bond coat complying with ANSI A108.4 as identified versus pure cement.

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,

A handwritten signature in black ink that reads "Gerald M. Halweg". The signature is written in a cursive style with a large, sweeping initial "G".

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