

TILE INSTITUTE of AMERICA

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Mr. Brian Streadbeck
AquaBella/Main Street Art, Inc.
450 South Alpine Highway
Alpine, Utah 84004

Client/Test Number: **20160415**

Telephone: **(714) 264-8269**
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Tile: **North Seas Series**, multi-colored "**NS-116 Celtic**" glass body, mesh back mounted.
Nominal size: 1" x 1" x 1/4" Pattern. **Rippled surface**. Tile made in China.
Conditions: New tiles sent to TILE INSTITUTE of AMERICA in sealed manufacturer's boxes from client above and selected at random.

COEFFICIENT OF FRICTION TEST STANDARD: ASTM C 1028

Standard Test Method for Evaluating the static Coefficient of Friction of Ceramic Tile on Tile and other like surfaces by the Horizontal Dynamometer Pull Meter Method.
Neolite assemblies. Neolite is a registered trademark of the Goodyear Tire and Rubber Co., Shoe Product Division, Windsor, VT.
Color: Natural 11, RMA Spec. #HS-3, 6 irons, Specific Gravity 1.27 ± 0.02, Hardness Shore "A" 93-96.
Neolite sole/heel material is a good representative for most types of heel/sole material commonly worn on shoes today.

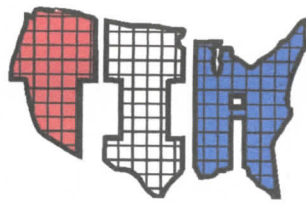
Test	Test Assembly	Tile #	North	East	South	West	Average	COF/Fc
1	Dry Neolite	1	25	25	23	24	24.25	0.48
2	Dry Neolite	2	24	25	23	24	24.00	
3	Dry Neolite	3	25	25	23	24	24.25	
4	Wet Neolite	1	15	16	15	15	15.25	0.30
5	Wet Neolite	2	16	16	14	15	15.25	
6	Wet Neolite	3	15	15	15	15	15.00	

Requirements:

- The **TILE INSTITUTE of AMERICA** recognizes 0.50 or greater as providing non-hazardous walkway for zero to 2 percent sloped surfaces.
- Underwriters Laboratories had listed COF of 0.50 or higher when dry as slip-resistant.
- ASTM F 2047 test method (Laboratory use only) had been reporting 0.50 or greater as slip-resistant surface.
- The US National Bureau of Standards had accepted a static COF of 0.50 or higher as adequate for pedestrian safety.
- Verify slip-resistant requirements from your local Jurisdiction and/or Municipalities for minimum COF.
- US Army adopted 0.50 as the minimum value for wet walking surfaces.
- ANSI A1264.2 published 0.50 as a threshold of safety for walking surfaces.
- Verify slip-resistant requirements from your local Jurisdiction and/or Municipalities for minimum COF requirements.

Date: June 7, 2016

Tests Conducted By: Gerald Halweg
Gerald M. Halweg, CTC, CSI. President



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TIA's Client: 20160415

AquaBella/Main Street Art, Inc.
Mr. Brian L. Streadbeck
450 South Alpine Highway
Alpine, Utah 84004

Telephone: (714) 264-8269 Facsimile: (714) 685-0465
brian@msagallery.com

Tile: **North Seas Series, color mottled silver "NS-116 Celtic" glass body**, mesh back mounted.
Nominal size: 1" x 1" x 1/4" Pattern. Tile made in China.

Conditions: New tiles sent to TILE INSTITUTE of AMERICA from client above and selected at random.

Resistance of Tile to Chemical Substances (ASTM C650)

Procedure: This test method covers a procedure for determining whether, and to what degree, tiles are affected by prolonged exposure to chemical substances. The temperature was controlled at 75±5 °F (24±3 °C) with an exposure time of 24 hours.

Specimens	Substance	Temperature, °F (°C)	Time, hours	Results
1.	10% Hydrochloric Acid	75±5 (24 ± 3)	24	Not affected
1.	10% Potassium Hydroxide	75±5 (24 ± 3)	24	Not affected
2.	10% Hydrochloric Acid	75±5 (24 ± 3)	24	Not affected
2.	10% Potassium Hydroxide	75±5 (24 ± 3)	24	Not affected
3.	10% Hydrochloric Acid	75±5 (24 ± 3)	24	Not affected
3.	10% Potassium Hydroxide	75±5 (24 ± 3)	24	Not affected
4.	10% Hydrochloric Acid	75±5 (24 ± 3)	24	Not affected
4.	10% Potassium Hydroxide	75±5 (24 ± 3)	24	Not affected
5.	10% Hydrochloric Acid	75±5 (24 ± 3)	24	Not affected
5.	10% Potassium Hydroxide	75±5 (24 ± 3)	24	Not affected
6.	10% Hydrochloric Acid	75±5 (24 ± 3)	24	Not affected
6.	10% Potassium Hydroxide	75±5 (24 ± 3)	24	Not affected
7.	10% Hydrochloric Acid	75±5 (24 ± 3)	24	Not affected
7.	10% Potassium Hydroxide	75±5 (24 ± 3)	24	Not affected
8.	10% Hydrochloric Acid	75±5 (24 ± 3)	24	Not affected
8.	10% Potassium Hydroxide	75±5 (24 ± 3)	24	Not affected
9.	10% Hydrochloric Acid	75±5 (24 ± 3)	24	Not affected
9.	10% Potassium Hydroxide	75±5 (24 ± 3)	24	Not affected
10.	10% Hydrochloric Acid	75±5 (24 ± 3)	24	Not affected
10.	10% Potassium Hydroxide	75±5 (24 ± 3)	24	Not affected
11.	10% Hydrochloric Acid	75±5 (24 ± 3)	24	Not affected
11.	10% Potassium Hydroxide	75±5 (24 ± 3)	24	Not affected
12.	10% Hydrochloric Acid	75±5 (24 ± 3)	24	Not affected
12.	10% Potassium Hydroxide	75±5 (24 ± 3)	24	Not affected

Test Results: **Pass**

Sincerely,

Gerald M. Halweg, CTC, CSI, TTA.
President/CEO of TILE INSTITUTE of AMERICA

Date: June 8, 2016