

PORCELAIN PAVERS

FIRE TESTING / ASTM-E108

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SAMPLE ID: The test samples are identified as: Tile Tech Porcelain Paver with Hex Tray on Hyt Pedestal System. SAMPLING DETAIL: The test materials were delivered to QAI Laboratories by the manufacturer. Th decks were constructed by QAI personnel. No special sampling conditions or s preparation were observed by QAI. DATE OF RECEIPT: Samples were received at QAI on March 27, 2015 TESTING PERIOD: March 31, 2015 AUTHORIZATION: Proposal #DM-2015-031802-R2 Dated March 18, 2015 Signed by Ronnie Tabibnia March 18, 2015. TEST PROCEDURE: Conduct a single Spread of Flame test on the submitted samples in accordance w the methods and procedures outlined in ASTM Test Method E108-11, "Standard Teme Methods for Fire Tests of Roof Coverings" (E108). . The sample Meets the Class A Spread of Flame requirements when tested in accordance with ASTM Test Method E108-11, "Standard Method of Fire Tests of R Coverings". Detailed test results are presented in the subsequent pages of this report. Prepared By: Signed for and on behalf of QAI Laboratories, Inc.	4730 E	East 26 th Street		
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David RoyerBrian OrtegaTest TechnicianSenior Technician				
Page 1 of 5 THIS REPORT IS THE CONFIDENTIAL PROPERTY OF THE CLIENT ADDRESSED. THE REPORT MAY ONLY BE REPRODUCED IN FULL PUBLICATION OF EXTRACTS FROM THIS R NOT PERMITTED WITHOUT WRITTEN APPROVAL FROM QAI. ANY LIABILITY ATTACHED THERED TO IS LIMITED TO THE FEE CHARGED FOR THE INDIVIDUAL PROJECT FILE REFE THE RESULTS OF THIS REPORT PERTAIN ONLY TO THE SPECIFIC SAMPLE(S) EVALUATED.		AL PROPERTY OF THE CLIENT ADDRESSED. THE REPORT	MAY ONLY BE REPRODUCED IN FULL. PUBLICATION OF EXTRACTS FROM THIS REPORT IS	



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SPREAD OF FLAME TEST PER ASTM E108-11

Test Sample Construction Details

Testing was conducted in accordance with ASTM E108-11. All test deck assemblies were stored indoors at temperatures not lower than 60°F (16°C) nor higher than 90°F (32°C) for the period of time necessary to cure the assembly components prior to testing. Test decks were stored such that each was surrounded by free circulating air. The test decks were assembled by QAI Staff.

A $^{15}/_{32}$ " ACX Plywood sheet was used to support the porcelain pavers, hex tray and hybrid pedestal leveling system. The top surface consisted of 24" x 24" porcelain paver tiles. Each paver tile was placed inside a plastic hex tray and supported by a Tile Tech Hybrid Pedestal at each corner. The nominal dimensions of the completed deck were 4 feet x 8 feet. A picture of the completed deck assembly is provided in the appendix of this report.

Test Details

Spread of Flame – Class A (One Test Deck)

Wind Velocity:	1056 ft/min ± 44 ft/min
Flame Temperature:	1400 ± 50° F
Test Deck Slope:	1/4" per Horizontal Foot
Flame Application:	10 Minutes

Test Results

Ignition Time: Maximum Spread of Flame: Time to Maximum Spread: Lateral Spread of Flame: Flame Front Recession: No Ignition 0 ft. n/a None None.

Observations

The sample did not ignite during the 10 minute test. The test was terminated with 0 feet maximum spread of flame. After the test the Hybrid Pedestals were examined for damage. The pedestals showed no signs of melting or burning after the flame exposure to the porcelain pavers during the Spread of Flame test.

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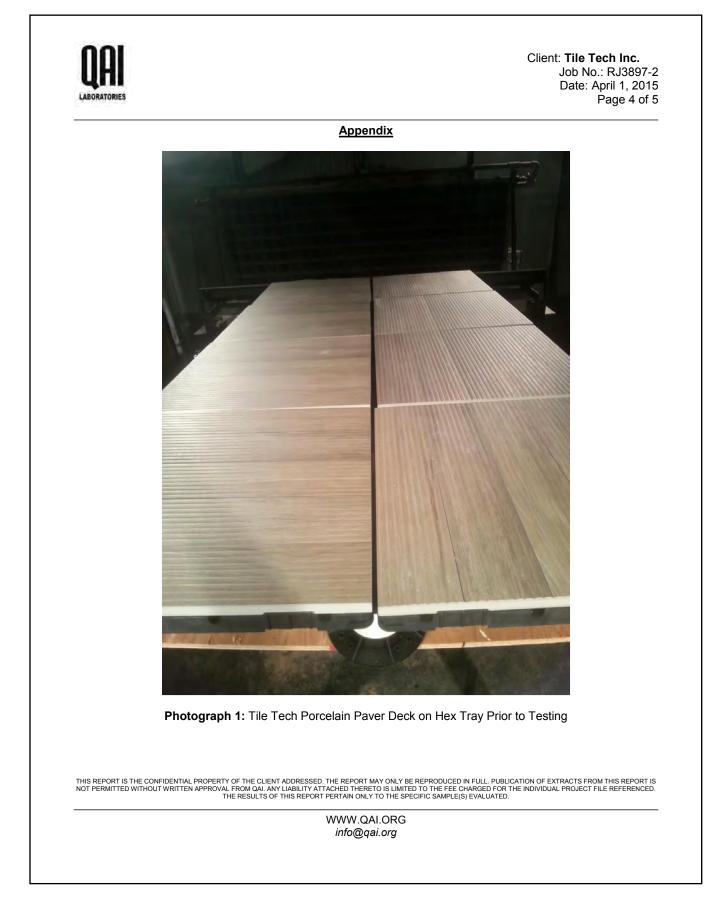


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LABORATORIES	Client: Tile Tech Inc. Job No.: RJ3897- Date: April 1, 201 Page 3 of
Conclusion	
	The sample Meets the Class A Spread of Flame requirements when tested in accordance with ASTM Test Method E108-11, "Standard Method of Fire Tests of Roof Coverings".
CONDIT	ONS OF ACCEPTANCE FOR CLASSIFICATION BY ASTM E108:
At no time dı	ring or after the intermittent flame, <u>spread of flame*</u> or burning brand tests shall:
brands t 2. The root 3. Portions 4. At no tin flaming 5.* At the co	ion of the roof covering material be blown or fall off the test deck in the form of flaming or glowing nat continue to glow after reaching the floor, or deck be exposed, or of the roof deck fall away in the form of particles that continue to glow after reaching the floor. I e during the Class A intermittent flame or Class A burning brand tests shall there be sustained of the underside of the deck. Inclusion of the spread of flame tests, the flaming shall not have spread beyond 6 feet for Class A e shall have been no significant lateral spread of flame from the path directly exposed to the test
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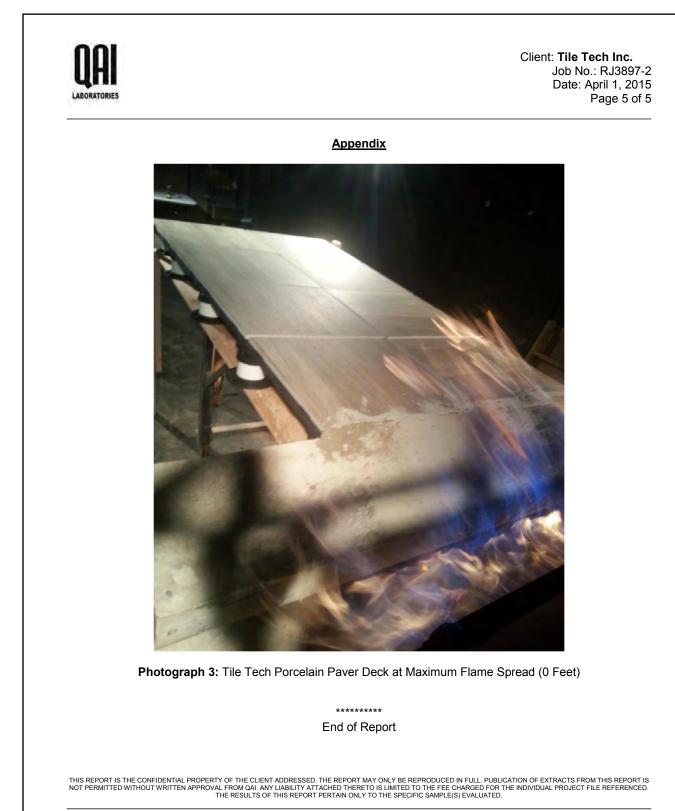


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