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CLIENT: ROBERTSON INDUSTRIES, INC.  
4145 W. Mercury Way  
Chandler, AZ 85226  
Charlie Robertson

Test Report No: 912138	Date: April 5, 2007
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**SAMPLE ID:** The Client submitted and identified the following test material as Totturf® Playground Surfacing.

**DATE OF RECEIPT:** Entered into SGS USTC sample tracking system on March 15, 2007.

**TESTING PERIOD:** March 30, 2007.


**AUTHORIZATION:** Testing authorized by Charlie Robertson.

**TEST REQUESTED:** Conduct Class A spread of flame roof fire tests on the submitted sample in accordance with the methods and procedures outlined in ASTM Test Method E108-04, "Standard Method of Fire Tests of Roof Coverings". This test method is comparable to the Standard Specification 790 of the Underwriters Laboratories, Inc., and the Uniform Building Code, Standard No. 15-2.

**TEST RESULTS:** Maximum Spread of Flame: Deck No. 1 – 4.5 feet, Deck No. 2 – 5 feet. See detailed results on page 2.

**CONCLUSION:** The Totturf® Playground Surfacing meets the Class A requirements for spread of flame when tested in accordance with ASTM E108, "Standard Test Methods for Fire Tests of Roof Coverings". This evaluation is applicable to the use of this material over non-combustible substrates at a slope not to exceed 1/4" per horizontal foot.

Tested by  
  
Brian Ortega  
Test Technician

Signed for and on behalf of  
SGS U.S. Testing Company Inc.  
  
Greg Banasky  
Supervisor Fire Technology

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**TEST DECK PREPARATION:** The submitted Totturf® Playground Surfacing was submitted in two pieces, 40" wide by 96" long. The sample was placed over inorganic reinforced cement board for testing

**TEST RESULTS AND OBSERVATIONS:**

**Spread of Flame - Class A - Two Test Decks**

Wind Velocity: 12 M.P.H.  
Flame Temperature: 1400 ±50° F  
Test Deck Slope: 1/4" per Horizontal Foot  
Flame Application: 10 Minutes

	<u>Deck No. 1</u>	<u>Deck No. 2</u>
Ignition Time	0 minute, 35 seconds	0 minute, 29 seconds
Maximum Spread of Flame	4.5 feet	5 feet
Time to Maximum Spread	2 minutes, 8 seconds	2 minutes, 30 seconds
Lateral Spread of Flame	No	No

**OBSERVATIONS:** Following surface ignition, the flame front advanced up slope to a distance of 4.5 feet on Deck No. 1 and 5 feet on Deck No. 2. Lateral spread of flame was not observed

**CONDITIONS OF ACCEPTANCE FOR CLASSIFICATION BY ASTM E108**

At no time during or after the intermittent flame, spread of flame, or burning brand tests shall:

1. Any portion of the roof covering material be blown or fall off the test deck in the form of flaming or glowing brands that continue to glow after reaching the floor, or
2. The roof deck be exposed, or
3. Portions of the roof deck fall away in the form of particles that continue to glow after reaching the floor.
4. At no time during the Class A intermittent flame or Class A burning brand tests shall there be sustained flaming of the underside of the deck.
5. At the conclusion of the spread of flame tests, the flaming shall not have spread beyond 6 feet for Class A and there shall have been no significant lateral spread of flame from the path directly exposed to the test flame.

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