



# CONSUMER TESTING LABORATORIES, INC.

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LABORATORY REPORT NO. HD3482

DATE: April 25, 1994

TO: Alessco Inc.  
770 N. Halstead Street  
Suite 107  
Chicago, IL 60622

ATTN: Mr. Jeffery A. D'Alessio

SUBJECT: One (1) Sample of Interlocking Foam Square Puzzle Mats  
(Tiles), as outlined below:

Alessco, Style 1101, One Size: 10-7/8 X 10-7/8, Made in Taiwan

Note: The sample does not provide age labelling.

**REASON FOR ANALYSIS:** Testing and evaluation of the sample from the viewpoint of material qualities, construction qualities, and performance characteristics, including applicable child safety tests, ASTM F963 and 16 CFR Part 1500, due to the sample's intended use with children.

**EXECUTIVE SUMMARY:** The sample is rated as GOOD, exhibiting good material qualities, good construction qualities, and good performance characteristics for its intended use.

The sample does not include surface coating or surface paint layer. All coloring or pigments are a part of the substrate of tile material. Hence, it is not covered by Section 16 CFR Part 1303 lead content requirements. This report does not cover hazards associated with the plasticizer or other chemicals used in the manufacturing of the tiles.

**EVALUATION OF FINDINGS:** The following observations are made:

1. The sample demonstrates good material qualities with good foam density of 0.100 grams/cc and uniform material thickness of 0.59-0.60 inches.

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**Terms and Conditions** Use of Consumer Testing Laboratories name and/or seal is not permitted without our written authorization. Our reports apply only to the individual sample tested. Consumer Testing Laboratories liability is strictly limited to invoiced amount.

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2. The sample demonstrates a tile interlocking strength and tab breaking strength, as follows:

	<b>Interlocking Strength (Lbs.-Pull)</b>
Full Tile/Tile	18.5 - 20.5

	<b>Tab Breaking Strength (Lbs.-Pull)</b>
Per Tab	48.0 - 49.0

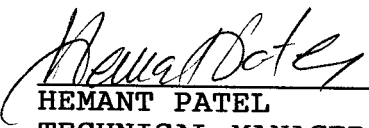
3. The sample passes the tension test and torque test of ASTM F963 with no small parts created under the required loads.
4. The sample passes the bite test, as required in 16 CFR 1500.
5. The sample exhibits the following cushioning and skid resistance properties.

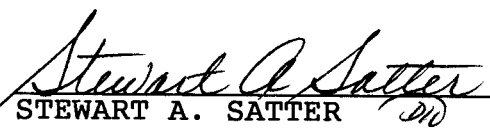
	<b>Cushion/Shock Absorption (In.-Lbs./Sq. Inch)</b>
Test Value	23.2

	<b>Skid Resistance (Static Coefficient of Friction to a Vinyl Tiled Surface)</b>
Test Value	0.42

6. The sample demonstrates good recovery properties due to compression set. The sample was loaded with 50 PSI for 24 hours. The sample fully recovered to its original thickness six hours after removal of the test weight.

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