



NATIONAL TESTING STANDARDS INC.
RESEARCH AND TESTING LABORATORIES

Report No. 26400

August 23, 1996

Client: Jensen Swing Products, Inc.
9434 Abraham Way
Santee, CA 92071

Reference: Mr. Chuck Cirraolo

Subject: Proof Loading of Tire Swings.

Sample Description:

Two 30" diameter plastic tires, 9" wide, were submitted by the Client and identified as Tire Swings, product no. A-145.

Request:

Suspend the submitted tire swings by the three points provided on the swing and proof load the tire sufficiently to demonstrate compliance with section 5.6.2.1 of ASTM F-1148.

Method:

Section 5.6.2.1 of ASTM F-1148 requires a proof load of 150 lbs. for each position that can be occupied by a child. The submitted tire swing is designed to accommodate up to three occupants.

Therefore each submitted tire swing was suspended as a three point swing from a load cell and uniformly loaded with 100 lbs. of force.

After release of the load the tire swing was examined for any evidence of failure.

Results:

Neither tire exhibited cracking, mount distortion, buckling, or any other evidence of structural failure.

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Conclusion:

Since the minimum load required for the submitted tire swings is 450 lbs. and the proof loading was to 1000 lbs. the submitted tire swings meet the requirements for proof loading of ASTM F-1148.

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by Lewis F. West
President

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