

**ISTA, Distributing Confidence, Worldwide™**

The ISTA 6-Series tests were introduced in 2008. They are Member Performance Tests, protocols created by ISTA members to suit their own particular purposes and applications. Typical are tests by or for large manufacturers or retailers to establish unique performance-based packaging requirements for their suppliers and vendors, or by carriers to reflect their particular conditions of distribution.

The tests may be completely original, or may be modifications or variations of ISTA Procedures or Projects or other published and accepted tests. They are reviewed, approved, and formally adopted by ISTA, and are made available either on a limited basis or generally, as determined by the originators. Primary responsibility for creation, validation, maintenance, revision and support of 6-Series tests rests with the originating member. If the test procedure is made available to the general public, it may be subject to typical fees charged for ISTA test protocols. ISTA members may download these procedures at no cost through the Member Center; non-members may purchase them through the ISTA Store. If the test procedure is written by the member and made available to the general public, then access from the ISTA website is via links to the originating Members' sites.

ISTA will consider and administer tests performed to these Procedures the same as for any other ISTA Procedures, and packaged-products may be Certified to these tests if all the appropriate ISTA requirements are met.

Contact ISTA at [ista@ista.org](mailto:ista@ista.org), if you would like further information or if your organization is interested in applying for ISTA 6-Series approval/adoption.

**ISTA 6-AMAZON.COM-Over Boxing:** A general simulation test for e-Commerce fulfillment. In comparison to items ready to ship in its own packaging (Test Project 6-Amazon.com- SIOC), this kind of e-Commerce fulfillment comprises an individual retail packaged-product weighing 70 pounds (32 kilograms) or less being placed into a master shipping container (Over Box) either by itself with the addition of dunnage (air pillows, etc.) or with multiple individual retail packaged-products with dunnage for shipment from Amazon.com to an end consumer through a parcel delivery system. This test challenges the packaging and/or products, whether primary package or transport package, ability to withstand the general damage-producing motions, forces, conditions, and sequences of this environment.

Testing requirements will vary; an Overview is available online: [www.ista.org](http://www.ista.org)

Authored and maintained in a cooperative effort by ISTA and Amazon.com. **Available for general use.**

ISTA members may download the project at no charge through the ISTA Member Center. [www.ista.org](http://www.ista.org)

Non-members may purchase the project through the ISTA Store. [www.ista.org](http://www.ista.org)

**ISTA 6-AMAZON.COM-SIOC:** A general simulation test for "Ships In Own Container" (SIOC) packaged-products shipped through Amazon's distribution system to final customer destinations. This testing protocol has been developed by combining data from previous studies of transportation environments, relevant testing protocols, Amazon Fulfillment Center environment visual observations, and customer feedback. This test is for packaged-products shipped by Vendors to Amazon.com Fulfillment Centers and delivered to final customer destinations via Parcel or Less-Than-Truckload (LTL) outbound shipment methods. It challenges the capability of both package and product to withstand transport hazards normally encountered during handling and transportation. Amazon.com Vendors with items intended to utilize Ships In Own Container (SIOC) are encouraged to use this test to understand the protective performance of their packaging.

Testing requirements will vary; an Overview is available online: [www.ista.org](http://www.ista.org)

Authored and maintained in a cooperative effort by ISTA and Amazon.com. **Available for general use.**

ISTA members may download the project at no charge through the ISTA Member Center. [www.ista.org](http://www.ista.org)

Non-members may purchase the project through the ISTA Store. [www.ista.org](http://www.ista.org)

**ISTA 6-ABC:** Thermal Testing for Packaged-Products **\*Internal use only by AmerisourceBergen Drug Company**

Testing requirements include the following tests:

- Thermal Testing

**ISTA 6-SAMSClub:** Packaged-Products for Sam's Club® Distribution System Shipment, for:

- Non-Perishable, initially shipped palletized (on standard or custom pallet)
- Non-Perishable, initially shipped floor-loaded (defined as large or small)
- Perishable

Testing requirements will vary; an Overview is available online: [www.ista.org](http://www.ista.org)

Authored and maintained in a cooperative effort by ISTA and Sam's Club. **Available for general use.**

ISTA members may download the project at no charge through the ISTA Member Center. [www.ista.org](http://www.ista.org)

Non-members may purchase the project through the ISTA Store. [www.ista.org](http://www.ista.org)

**Continued on next page**

## ISTA 6-SERIES

Continued from previous page

**ISTA 6-FEDEX-A:** FedEx Procedures for Testing Packaged Products Weighing Up to 150 lb (domestic and international) Testing requirements include various combinations of the following tests:

- Free-Fall Drops
- Concentrated Impacts
- Bridge Impacts
- Compression
- Rotary Vibration
- Random Vibration

**Available for general use at NO CHARGE through FedEx:**  
[http://images.fedex.com/us/services/pdf/PKG\\_Testing\\_Under150Lbs.pdf](http://images.fedex.com/us/services/pdf/PKG_Testing_Under150Lbs.pdf)

**ISTA 6-JACO:** Performance Test for Packaged-Products weighing over 150 lb (68 kg)

**Internal use only by Jaco, Inc**

Testing requirements include the following tests:

- Fixed-Displacement Vibration
- Incline Impacts
- Rotational Edge Drops

**ISTA 6-FEDEX-B:** FedEx Procedures for Testing Packaged Products Weighing More Than 150 lb (domestic and international)

Testing requirements include various combinations of the following tests:

- Side Impacts
- Bottom Impacts
- Raised Edge Impacts
- Raised Corner Impacts
- Tip Tests
- Compression
- Rotary Vibration
- Random Vibration

**Available for general use at NO CHARGE through FedEx:**  
[http://images.fedex.com/us/services/pdf/PKG\\_Testing\\_Over150Lbs.pdf](http://images.fedex.com/us/services/pdf/PKG_Testing_Over150Lbs.pdf)

**ISTA 6-MEDRAD:** Performance Test for Elongated Packaged-Products weighing under 150 lb (68kg)

**Internal use only by MEDRAD Incorporated**

Testing requirements include the following tests:

- Atmospheric Pre-Conditioning
- Atmospheric Conditioning
- Compression
- Random Vibration
- Free-Fall Drops
- Rotational Drops
- Bridge Impact

For additional information, refer to **Guidelines for Selecting and Using ISTA Test Procedures and Projects**.

ISTA Membership information is available at [www.ista.org](http://www.ista.org).

*This Test Series is published by:  
International Safe Transit Association  
1400 Abbot Road, Suite 160, East Lansing, Michigan 48823-1900 USA*

© 2018 International Safe Transit Association

*No part of the contents of this Test Series may be reproduced or transmitted in any form or by any means without the written permission of the publisher.*

Order Information: Additional copies of this Test Procedure and the ISTA® RESOURCE BOOK may be ordered online at [www.ista.org](http://www.ista.org) or by contacting ISTA at (+1) 517.333.3437. A listing of current procedure version dates is available at [www.ista.org](http://www.ista.org).