

ISTA Packaging Testing

The Applus+ Laboratories packaging laboratory in Barcelona is one of the few labs in Spain certified to test ISTA standards, used by the main logistics, distribution and e-commerce companies, including Amazon and FedEx, amongst others.



The ISTA (International Safe Transit Association) testing standards represent the main benchmark in the packaging industry. They serve to prevent the main problems related to the transport and distribution of all types of products.

Applus+ Laboratories has an advanced laboratory dedicated to testing the characteristics of containers and packages, as well as simulating the transport of products, including hazardous materials. Located in Barcelona, it is one of just a few Spanish laboratories certified to test ISTA standards.

Testing capabilities:

- Vibrations
- Shock
- Compression testing
- Side impact testing
- Tilt testing
- Environmental stress

ISTA test types:

([font ISTA website](#)):

- 1 Series: Non-Simulation Integrity Performance Tests.

- 2 Series: Partial Simulation Performance Tests
- 3 Series: General Simulation Performance Tests.
- 4 Series: Enhanced Simulation Performance Tests.
- 5 Series: Focused Simulation Guides ****NOT AN ACTIVE SERIES****
- 6 Series: Member Performance Tests:
 - 6-AMAZON.com
 - 6-SAMSCLUB
 - 6-FEDEX
- 7 Series: Development Tests.

ISTA Test Procedures

(font [ISTA website](#))

	Package Type		
Distribution Type	150 lbs. (68 kg) or Less	Over 150 lbs. (68 kg)	Pallet Load
Parcel Delivery	3A, 6-FedEx-A	Not Applicable	Not Applicable
LTL (Less-Than-Truckload) Delivery	3B	3B, 6-FedEx-B	3B, 6-FedEx-B
Manufacturing to Distribution Center	Not Applicable	Not Applicable	3E
Distribution Center to Retail	3F	Not Applicable	Not Applicable
eCommerce shipments fulfilled by retailer	6-Amazon.com-Over Boxing, 6-Amazon.com-SIOC	6-Amazon.com-SIOC	Not Applicable
eCommerce shipments direct from manufacturer to consumer	3A	3B	3B
Club Store	6-Sams Club	6-Sams Club	6-Sams Club
European Consumer Goods	3K	Not Applicable	Not Applicable
Specialized Furniture	2C	2C	2C
Thermal Testing	7D, 7E	7D, 7E	Situational
Bulk/Automotive Reusable	Not Applicable	Not Applicable	3H
Custom Test Building	4AB	4AB	4AB
Preliminary Design Screening Test	1A, 1C, 1G	1B, 1D, 1H	1E



Distribution Type

Package Type

150 lbs. (68 kg) or Less Over 150 lbs. (68 kg) Pallet Load

Partial Simulation

2A 2B Not Applicable