

**Packaging - Complete, filled transport packages
and unit loads - Performance testing schedules for
common distribution chains**

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 15552:2008 sisaldab Euroopa standardi EN 15552:2008 ingliskeelset teksti.

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English Version

**Packaging - Complete, filled transport packages and unit loads -
Performance testing schedules for common distribution chains**

Emballages - Emballages d'expédition complets et pleins et
charges unitaires - Programmes d'essai de performance
pour circuits de distribution courants

Verpackung - Versandfertige Packstücke und
Ladeeinheiten - Prüfpläne für gewöhnliche Transportketten

This European Standard was approved by CEN on 4 July 2008.

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Contents

Page

1	Scope	5
2	Normative references	5
3	Terms and definitions	5
4	Distribution chains and categorized shipped packages	6
4.1	Parcels delivery	6
4.2	Packages with intended shipping position	6
4.3	Palletized loads	6
4.4	Packages in maritime containers	6
5	Relevant single testings and options	6
5.1	Climatic conditioning	6
5.2	Stacking Test	7
5.3	Vibration Test	7
5.4	Horizontal Impact Test	8
5.5	Stability Test	8
5.6	Drop Test	8
5.7	Toppling Test	9
6	Sampling	9
7	Testing	10
8	Pass or fail criteria	13
9	Test report	13
	Bibliography	14

Foreword

This document (EN 15552:2008) has been prepared by Technical Committee CEN/TC 261 "Packaging", the secretariat of which is held by AFNOR.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by February 2009, and conflicting national standards shall be withdrawn at the latest by February 2009.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

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Introduction

Packaging is designed for many functions in the distribution of goods like packing, handling, storage, transport, information, promotion, tamper proofing, easy opening, etc.

This European Standard is intended to assess the protection of goods through handling, storage and transport of packages.

The objective is also to check whether the packaging is just sufficient to the level of stresses, but without excess.

Alternatives are sometimes proposed to better cover actual likely hazards.

The specified testing schedules cross-reference well recognized international testing methods.

EN 13011 defines a system for the declaration of performance conditions within goods transport chains.

1 Scope

This European Standard specifies methods of deriving schedules for testing completed, filled transport packages and unit loads, representative of current distribution chains within Europe.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 14149:2003, *Packaging – Complete, filled transport packages and unit loads – Impact test by rotational drop*.

EN 22206, *Packaging – Complete, filled transport packages – Identification of parts when testing* (ISO 2206:1987)

EN 22248, *Packaging – Complete, filled transport packages – Vertical impact test by dropping* (ISO 2248:1985)

EN 28768, *Packaging – Complete, filled transport packages – Toppling test* (ISO 8768:1986)

EN ISO 2233:2001, *Packaging – Complete, filled transport packages and unit loads – Conditioning for testing* (ISO 2233:2000)

EN ISO 2234:2002, *Packaging – Complete, filled transport packages and unit loads – Stacking tests using a static load* (ISO 2234:2000)

EN ISO 2244, *Packaging – Complete, filled transport packages and unit loads – Horizontal impact tests* (ISO 2244:2000)

EN ISO 2247:2002, *Packaging – Complete, filled transport packages and unit loads – Vibration tests at fixed low frequency* (ISO 2247:2000)

EN ISO 12048, *Packaging – Complete, filled transport packages – Compression and stacking tests using a compression tester* (ISO 12048:1994)

EN ISO 13355, *Packaging – Complete, filled transport packages and unit loads – Vertical random vibration test* (ISO 13355:2001)

ASTM D4003, *Standard test methods for programmable horizontal impact test for shipping containers and systems*

ASTM D5277, *Standard test method for performing programmed horizontal impacts using an inclined impact tester*

3 Terms and definitions

For the purposes of this European Standard, the following terms and definitions apply.

3.1

test item

complete, filled transport package or unit load