Packaging - Complete, filled transport packages and unit loads - Horizontal impact tests

Packaging - Complete, filled transport packages and unit loads - Horizontal impact tests

EESTI STANDARDI EESSÕNA **NATIONAL FOREWORD**

Käesolev Eesti standard EVS-EN ISO 2244:2003 sisaldab Euroopa standardi EN ISO 2244:2002 ingliskeelset teksti. Käesolev dokument on jõustatud 18.02.2003 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes. Standard on kättesaadav Eesti standardiorganisatsioonist.	This Estonian standard EVS-EN ISO 2244:2003 consists of the English text of the European standard EN ISO 2244:2002. This document is endorsed on 18.02.2003 with the notification being published in the official publication of the Estonian national standardisation organisation. The standard is available from Estonian standardisation organisation.

Käsitlusala: This International Standard specifies methods of horizontal impact testing (horizontal or inclined plane test and pendulum test) on a complete, filled transport package or a until load.	**Scope:** This International Standard specifies methods of horizontal impact testing (horizontal or inclined plane test and pendulum test) on a complete, filled transport package or a until load.

ICS 55.180.40

Võtmesõnad: fractures, materials, packaging tests, packing, pendulums, protection, ramps, resistance, samples, shipping containers, shipping packages, strength of materials, test atmospheres, test reports, testing, testing devices, tests, transport packing

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 2244

September 2002

ICS 55.180.40

Supersedes EN 22244 : 1992.

English version

Packaging

Complete, filled transport packages and unit loads

Horizontal impact tests

(ISO 2244 : 2000)

Emballages – Emballages d'expédition complets et pleins et charges unitaires – Essais de choc horizontal (ISO 2244 : 2000)

Verpackung – Versandfertige Packstücke und Ladeeinheiten – Horizontale Stoßprüfung (ISO 2244 : 2000)

This European Standard was approved by CEN on 2002-08-26.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Management Centre or to any CEN member.

The European Standards exist in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, the Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Malta, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and the United Kingdom.

CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Management Centre: rue de Stassart 36, B-1050 Brussels

Ref. No. EN ISO 2244 : 2002 E

Foreword

International Standard

ISO 2244 : 2000 Packaging – Complete, filled transport packages and unit loads – Horizontal impact tests, which was prepared by ISO/TC 122 'Packaging' of the International Organization for Standardization, has been adopted by Technical Committee CEN/TC 261 'Packaging', the Secretariat of which is held by AFNOR, as a European Standard.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, and conflicting national standards withdrawn, by March 2003 at the latest.

In accordance with the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard:

Austria, Belgium, the Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Malta, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and the United Kingdom.

Endorsement notice

The text of the International Standard ISO 2244 : 2000 was approved by CEN as a European Standard without any modification.

NOTE: Normative references to international publications are listed in Annex ZA (normative).

Introduction

It is the responsibility of the user of this International Standard to establish appropriate health and safety practice in accordance with relevant legislation.

1 Scope

This International Standard specifies methods of horizontal impact testing (horizontal or inclined plane test and pendulum test) on a complete, filled transport package or a unit load. The test may be performed either as a single test to investigate the effects of horizontal impact or as part of a sequence of tests designed to measure the ability of a package or a unit load to withstand a distribution system that includes a horizontal impact hazard.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this International Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 2206, *Packaging — Complete, filled transport packages — Identification of parts when testing.*

ISO 2233, *Packaging — Complete, filled transport packages and unit loads — Conditioning for testing.*

3 Term and definition

For the purposes of this International Standard, the following term and definition applies.

3.1
test specimen
a complete, filled transport package or unit load

4 Principle

Applying a horizontal velocity to the test specimen and bringing it to a halt by impact with a vertical impact surface. The atmospheric conditions, the impact velocity and the attitude of the test specimen are predetermined. Particular conditions of impact may be simulated by placing appropriately profiled inserts between the impact surface and the impacting face or edge of the test specimen.

5 Apparatus

5.1 Impact surface, which should be either:

a) a plane inclined to the vertical at 10° ± 1° (for the inclined plane test), or

b) a plane vertical to within 1° (for the horizontal or pendulum test).