

**Complete, filled transport packages -
General rules for the compilation of
performance test schedules - Part 2:
Quantitative data**

Complete, filled transport packages - General rules
for the compilation of performance test schedules -
Part 2: Quantitative data

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 24180-2:2003 sisaldab Euroopa standardi EN 24180-2:1992 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 14.08.2003 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 24180-2:2003 consists of the English text of the European standard EN 24180-2:1992.</p> <p>This document is endorsed on 14.08.2003 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
--	---

<p>Käsitlusala:</p> <p>This International Standard establishes general rules to be used for the compilation of performance test schedules for complete, filled transport packages intended for use within any distribution system, whether transported by road, rail, sea, air or inland waterway, or by a combination of these modes of transport</p>	<p>Scope:</p> <p>This International Standard establishes general rules to be used for the compilation of performance test schedules for complete, filled transport packages intended for use within any distribution system, whether transported by road, rail, sea, air or inland waterway, or by a combination of these modes of transport</p>
---	---

ICS 03.220

Võtmesõnad:

UDC 621.798.1 : 620.165.7

Descriptors: Packing, complete, filled transport packages, performance tests, mechanical tests, environmental tests, test conditions, test schedule.

English version

Complete, filled transport packages

General rules for the compilation of performance test schedules

Part 2: Quantitative data

(ISO 4180-2 : 1980)

Emballages d'expédition complets et pleins; règles générales pour l'établissement de programme d'essais d'aptitude à l'emploi. Partie 2: Données quantitatives (ISO 4180-2 : 1980)

Versandfertige Packstücke; allgemeine Regeln für die Erstellung von Prüfplänen. Teil 2: Beanspruchungsparameter (ISO 4180-2 : 1980)

This European Standard was approved by CEN on 1992-10-30 and is identical to the ISO Standard as referred to.

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 Central Secretariat or to any CEN member.

This European Standard exists 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 Central Secretariat has the same status as the official versions.

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

CEN

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

Central Secretariat: rue de Stassart 36, B-1050 Brussels

Foreword

In 1991, International Standard

ISO 4180-2 : 1980 Complete, filled transport packages; general rules for the compilation of performance test schedules; quantitative data

was submitted to the CEN PQ procedure.

Following the positive result of the PQ, CEN/BT agreed to submit ISO 4180-2:1980, without modifications, to Formal Vote.

The result was positive.

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 May 1993 at the latest.

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

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

Endorsement notice

The text of the International Standard ISO 4180-2 : 1980 was approved by CEN as a European Standard without any modification.

Contents

	Page
0 Introduction	3
1 Scope and field of application	3
2 References	3
3 Factors requiring quantification in test methods	4
4 Preferred values of test intensities	4
5 Test intensity modifying factors	7
6 Examples of the compilation of test schedules	10

0 Introduction

This International Standard has been prepared in order to fulfil a need of organizations concerned with the compilation of test schedules for complete, filled transport packages.

Such test schedules can be as diverse as the journeys that packages undergo. Accordingly, this International Standard is intended to set guidelines for the compilation of appropriate test schedules, rather than to provide a rigid framework or to be specified by regulatory or other authorities.

It is expected that, once compiled, a particular test schedule, including the test methods and intensities to be applied, could be the subject of International Standards or would become a matter for agreement between the parties concerned, for example the package designer, the manufacturer of the contents, the transport authority, the customer, the statutory regulating body or any combination of them.

1 Scope and field of application

This International Standard establishes general rules to be used for the compilation of performance test schedules for complete, filled transport packages intended for use within any distribution system, whether transported by road, rail, sea, air or inland waterway, or by a combination of these modes of transport.

ISO 4180/1 states the general principles entailed in compiling test schedules.

It also gives the factors to be considered in assessing the criteria of acceptance of such packages after they have been subjected to a package performance test schedule.

This part incorporates all the quantitative data necessary to establish test intensities and other quantitative features of test schedules.

The two parts are intended to be read in conjunction with one another.

2 References

ISO 2206, *Packaging — Complete, filled transport packages — Part 1 : Identification of parts when testing.*

ISO 2233, *Packaging — Complete, filled transport packages — Part 2 : Conditioning for testing.*

ISO 2234, *Packaging — Complete, filled transport packages — Part 3 : Stacking test.*

ISO 2244, *Packaging — Complete, filled transport packages — Part 5 : Horizontal impact tests (inclined plane test; pendulum test).*

ISO 2247, *Packaging — Complete, filled transport packages — Part 6 : Vibration test.*

ISO 2248, *Packaging — Complete, filled transport packages — Part 4 : Vertical impact test by dropping.*

ISO 2872, *Packaging — Complete, filled transport packages — Part 7 : Compression test.*

ISO 2873, *Packaging — Complete, filled transport packages — Part 8 : Low pressure test.*

ISO 2874, *Packaging — Complete, filled transport packages — Part 9 : Stacking test using compression tester.*

ISO 2875, *Packaging — Complete, filled transport packages — Part 10 : Water spray test.*

ISO 2876, *Packaging — Complete, filled transport packages — Part 11 : Rolling test.*

ISO 4180/1, *Complete, filled transport packages — General rules for the compilation of performance test schedules — Part 1 : General principles.*