

SLOVENSKI STANDARD SIST EN 24180-2:1996

01-avgust-1996

Embalaža - Celovita, napolnjena transportna embalaža - Splošna pravila za določanje programa preskusov o primernosti za uporabo - 2. del: Kvantitativni podatki (ISO 4180-2:1980)

Complete, filled transport packages - General rules for the compilation of performance test schedules - Part 2: Quantitative data (ISO 4180-2:1980)

Versandfertige Packstücke - Aligemeine Regeln für die Erstellung von Prüfplänen - Teil 2: Beanspruchungsparameter (ISO 4180-2:1980) (standards.iteh.ai)

Emballages d'expédition complets et pleins ₂ Regles générales pour l'établissement des programmes d'essais d'aptitude a l'emploi Partie 2: Données quantitatives (ISO 4180-2:1980)

05e41d8125b1/sist-en-24180-2-1996

Ta slovenski standard je istoveten z: EN 24180-2:1992

ICS:

55.180.40 Celovita, napolnjena Complete, filled transport

transportna embalaža packages

SIST EN 24180-2:1996 en

SIST EN 24180-2:1996

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN 24180-2:1996 ds.iteh.ai/catalog/standards/sist/a0e78cce-6581

https://standards.iteh.ai/catalog/standards/sist/a0e78cce-6581-4979-8e78-05e41d8125b1/sist-en-24180-2-1996

EUROPEAN STANDARD

EN 24180-2:1992

NORME EUROPÉENNE

EUROPĀISCHE NORM

November 1992

UDC 621,798,1:620,16

Descriptors:

Packaging, transport packing, complete- and filled packages, performance tests, mechanical tests, environmental tests, testing conditions, data

English version

Complete, filled transport packages - General rules for the compilation of performance test schedules - Part 2: Quantitative data (ISO 4180-2:1980)

iTeh STANDARD PREVIEW

Emballages d'expédition complets et pleins 10 ard S.itch.
Règles générales pour l'établissement des programmes d'essais d'aptitude à l'emploi Partie 2: Données quantitatives (ISO 4180-2:1980)

SISTEN 24180-2:1996

https://standards.iteh.ai/catalog/standards/sist/a0e78cce-6581-4979-8e78-05e41d8125b1/sist-en-24180-2-1996

This European Standard was approved by CEN on 1992-10-30. 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.

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 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

Page 2 EN 24180-2:1992

Foreword

In 1991, ISO 4180-2:1980 "Complete, filled transport packages - General rules for the compilation of performance test schedules - Part 2: Quantitative data" was submitted to the CEN Primary Questionnaire procedure.

Following the positive result of the CEN/CS Proposal ISO 4180-2:1980 was submitted to the Formal Vote.

The result of the Formal Vote was positive.

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 May 1993, and conflicting national standards shall be withdrawn at the latest by May 1993.

According to 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, United Kingdom.

<u>SIST EN 24180-2:1996</u> https://standards.iteh.ai/catalog/standards/sist/a0e78cce-6581-4979-8e78-05e41d8125b1/sist-en-24180-2-1996

Endorsement notice

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

International Standard



INTERNATIONAL ORGANIZATION FOR STANDARDIZATION•МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ•ORGANISATION INTERNATIONALE DE NORMALISATION

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

Emballages d'expédition complets et pleins — Règles générales pour l'établissement des programmes d'essais d'aptitude à l'emploi — Partie 2 : Données quantitatives

First edition - 1980-08-01

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN 24180-2:1996 https://standards.iteh.ai/catalog/standards/sist/a0e78cce-6581-4979-8e78-05e41d8125b1/sist-en-24180-2-1996

UDC 621.798.1:620.16

Ref. No. ISO 4180/2-1980 (E)

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO member bodies). The work of developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been set up has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 4180/2 was developed by Technical Committee VIEW ISO/TC 122, *Packaging*, and was circulated to the member bodies in March 1979.

It has been approved by the member bodies of the following countries:

SIST EN 24180-2:1996

Australia http://eandards.iteh.ai/catalog/Newl/Zealand/a0e78cce-6581-4979-8e78-

Austria Germany, F.R. 05e41d8125Polanden-24180-2-1996

Belgium Hungary Romania

Brazil India South Africa, Rep. of

Bulgaria Ireland Spain Canada Israel Turkey

Chile Japan United Kingdom

Czechoslovakia Libyan Arab Jamahiriya USA
Denmark Malaysia USSR
Eqypt, Arab Rep. of Netherlands Yugoslavia

The member bodies of the following countries expressed disapproval of the document on technical grounds:

Italy Sweden

International Organization for Standardization, 1980

Contents

	Pa	age
0	Introduction	1
1	Scope and field of application	1
2	References	1
3	Factors requiring quantification in test methods	2
4	Preferred values of test intensities	2
5	Test intensity modifying factors	5
iTeh S7	Examples of the compilation of test schedules	8
(S	tandards.iteh.ai)	

SIST EN 24180-2:1996 https://standards.iteh.ai/catalog/standards/sist/a0e78cce-6581-4979-8e78-05e41d8125b1/sist-en-24180-2-1996

SIST EN 24180-2:1996

iTeh STANDARD PREVIEW

Standards iteh ai This page intentionally left blank

SIST EN 24180-2:1996 https://standards.iteh.ai/catalog/standards/sist/a0e78cce-6581-4979-8e78-05e41d8125b1/sist-en-24180-2-1996

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

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 sintended 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.

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.

provide a rigid framework or to be ISO 2233, Packaging — Complete, filled transport packher authorities. SIST EN 24180-24086 Part 2: Conditioning for testing. https://standards.iteh.ai/catalog/standards/sist/a0e78cce-6581-4979-8e78-

It is expected that, once compiled, a particular rest schedule; t-en-248002234,99 (Packaging — Complete, filled transport packingly including the test methods and intensities to be applied, could ages — 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.

ISO 4180/2-1980 (E)

3 Factors requiring quantification in test methods

Relevant test methods, and the factors requiring quantification before each test can be used, are given in table 1.

4 Preferred values of test intensities

Basic test intensities, which are considered to be normal for a common distribution system and which are based upon a

package of "average" mass and size (i.e. of mass 20 kg and dimensions 400 mm \times 400 mm \times 400 mm) are given in table 2, for the road, rail, water and air modes of transport and for storage.

Where a test intensity other than the basic value is appropriate (see clause 5) the value selected should be chosen, as far as is practicable, from the preferred values given in table 3.

For comparative investigations or research it may be necessary to select values of test intensity other than those given in table 3.

Table 1 — Methods of test and factors requiring quantification

Method of test	Relevant International Standard	Factors requiring quantification
Conditioning	ISO 2233	Temperature, relative humidity, time, pre-drying conditions (if any).
Stacking test	ISO 2234	Load, duration of time under load, attitude(s) of the package(s) 1), atmospheric
Vertical impact test by dropping	iTeh \$	temperature and relative humidity, number of replicate packages. Drop height, attitude(s) of the package(s) 1), atmospheric temperature and relative humidity, number of replicate packages, number of impacts.
Horizontal impact tests (inclined plane test, pendulum test)	ISO 2244 https://standards.	Horizontal velocity, attitude(s) of the package(s) ¹⁾ , atmospheric temperature and relative humidity profiles of impacting surfaces and use (if any) of an interposed hazard number of replicate packages = 6581-4979-8678-
Vibration test	ISO 2247	05c41d8125b1/sist-en-24180-2-1996 Duration of test, attitude(s) of the package(s) ¹⁾ , atmospheric temperature and relative humidity, load (if any) superimposed on the package(s), number of replicate packages.
Compression test	ISO 2872	Maximum load (where applicable), attitude(s) of the package(s) ¹⁾ , atmospheric temperature and relative humidity, upper platen rigidly mounted or free to tilt, number of replicate packages.
Low pressure test	ISO 2873	Pressure, duration of time at reduced pressure, temperature within test chamber, number of replicate packages.
Stacking test using compression tester	ISO 2874	Load applied, duration of time under load, attitude(s) of the package(s) ¹⁾ , atmospheric temperature and relative humidity, number of replicate packages.
Water spray test	ISO 2875	Duration of time under spray, attitude(s) of the package(s) ¹⁾ , number of replicate packages.
Rolling test	ISO 2876	Atmospheric temperature and relative humidity, number of replicate packages.

¹⁾ See ISO 2206.

		(eta)	ndarde	de iteh	ai)	Transport mode	эрош:				Storade	. 5
Most of test	Variable	Linits	Road	pe	Rail	12	Water		Air	_		,
	https://stand	https://standards.iteh.ai/caralog/ailan	241 dard	80-2:1996 ls/s Bange 78c	Basic ce-value-497	9-8EAnge	Basic	Range	Basic value	Range	Basic value	Range
Tests imposed installation and	Tests imposed by equipment installation and environment	0.000	0.3SS/10C716	7,001.7.1	8		-					
Climatic ¹⁾	Rain Temperature Relative humidity Low pressure						Under study	-				
Vibration	Duration	min	20	10 to 60	20	10 to 60	Short : 20	10 to 60	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	700		
	Height of stack, if loaded	٤	2,50	1,50 to 3,50	2,50	1,50 to 2,50	3,50	3,50 to 7,00	Onder study	Approx approx		
Stacking	Duration	As given	1 day	1 day to 1 week	1 day	1 day to 1 week	Short: 1 day	1 day to 4 weeks	1 day	<u></u> Z	Short: 1 day Long:	1 day to 4 weeks
	Height	٤	2,50	1,50 to 3,50	2,50	1,50 to 2,50	1 week 3,50	3,50 to 7,00	1,80	Z	1 week 3,50	1,50 to 7,00
Horizontal impact	Velocity	s/ш	1,5	1,5 to 2,7	1,8	1,3 to 5,0	ı	l	N 2	and a	ı	I
Test imposed	Test imposed by manpower								4180			
Vertical impact	Drop height	E E	200	100 to 1 200	500	100 to 1 200	300	100 to 1 200	J-2:1: 200	100 to 1 200	l	1
1) Appropriate methods of test will be the subjects of future International Standards.	thods of test will be	the subjects of	f future Interna	ational Standa	ards.				996			

1) Appropriate methods of test will be the subjects of future International Standards.