



SLOVENSKI STANDARD
SIST EN 259:2000
01-december-2000

Wall coverings in roll form - Specification for heavy duty wall coverings

Wall coverings in roll form - Specification for heavy duty wall coverings

Wandbekleidungen in Rollen - Festlegungen für hoch beanspruchbare
Wandbekleidungen

Revetements muraux en rouleaux - Specification pour revêtements muraux a usage
intense

ITeH STANDARD PREVIEW
(standards.iteh.ai)

Ta slovenski standard je istoveten z: **EN 259:1991**
<https://standards.iteh.ai/catalog/standards/sist/614564af-55c3-49cb-936f-b2132d455d73/sist-en-259-2000>

ICS:

91.180 P[dæ bæ æ |b } æ ^|æ Interior finishing

SIST EN 259:2000 en

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN 259:2000

<https://standards.iteh.ai/catalog/standards/sist/bf4584af-55c3-49cb-936f-b2132d455d73/sist-en-259-2000>

UDC 691.145-035.4-036 : 003.6(084) : 610.1 : 62-777

Descriptors: Wallcoverings, wall paper base, specifications, dimensions, washing, colourfastness, shock resistance, marking, graphic symbols

English version

Wallcoverings in roll form — Specification for heavy duty wallcoverings

Revêtements muraux en rouleaux —
Spécification pour revêtements muraux à
usage intense

Wandbekleidungen in Rollen —
Festlegungen für hoch beanspruchbare
Wandbekleidungen

This European Standard was approved by CEN on 1991-12-27. 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

Following a request by the International Wallpaper Manufacturers' Association (IGI), CEN/TC99 was established in 1980 to develop standards for wallcoverings in roll form. The IGI submitted first draft proposals for a vocabulary, and for specifications for wallcoverings for subsequent decoration and for finished wallpapers, wall vinyls and plastics wallcoverings.

During its first meeting in 1980, TC99 decided to undertake additional work concerning textile wallcoverings, for which a WG 1 was created, and heavy duty wallcoverings, for which a WG 2 was created. A first proposal for the specification for heavy duty products was forward by WG 2 for consideration by TC99 at its fifth meeting in Manchester (1985) and developed at a subsequent meeting in Brussels (1988).

In accordance with the Common CEN/CENELEC Rules, 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.

Contents

	Page
0 Introduction	3
1 Object and field of application	3
2 References	3
3 Definitions	3
4 Dimensions	3
5 Washability	3
6 Colour fastness to light	3
7 Impact resistance	4
8 Matching, application, removal and miscellaneous symbols	4
9 Marking	4
10 Designation	4
Annexes	
A Sampling for testing	7
B Method of measuring dimensions	7
C Method of test for impact resistance	7
D Test report	7
E Designation	7
Table	
1 Symbols for marking purposes	5
Figures	
1 Typical impact test apparatus	8
2 Sample preparation	9

<https://standards.iteh.ai/catalog/standards/sist/bf4584af-55c3-49cb-936f-b2132d455d75/sist-en-259-2000>

ALIVE VOICE...
 MANAGEMENT...
 INFORMATION...
 SYSTEMS...
 SOLUTIONS...
 CONSULTING...
 SERVICES...
 CONTACT...

0 Introduction

A heavy duty wallcovering is a finished wallcovering that is intended for use in areas of heavy traffic or in commercial premises.

There are many types of wallcovering and varied processes used in their manufacture. To ensure satisfactory performance, it is important that decorators follow the manufacturer's recommended hanging instructions for each particular product.

Various grades of colour fastness to light of heavy duty wallcoverings are recognized and symbols to indicate these grades are given in this standard, as well as symbols to indicate washability, impact resistance, pattern matching, means of application and methods of subsequent removal from the support. This will facilitate the selection by the user of wallcoverings appropriate to his particular needs and guide the decorator.

Related European Standards on the vocabulary and symbols used in the wallcovering industry, for finished wallpapers, wall vinyls and plastics wallcoverings, for wallcoverings for subsequent decoration and for textile wallcoverings are also published.

1 Object and field of application

This European Standard:

- specifies requirements for dimensions, washability, resistance to impact and grades of colour fastness to light
- gives the symbols, to be used for marking purposes, for these characteristics and also for matching, methods of application and removal
- specifies requirements for marking
- gives the designation system

The marking requirements of this standard are primarily for information of the consumer and to enable optimum use to be made of the product.

This standard applies to heavy duty wallcoverings supplied in rolls for hanging on to walls and ceilings by means of an adhesive covering the whole of the interface between the wallcovering and the support and that are not intended to be decorated after hanging.

Excluded from this standard are rigid materials, materials not attached or not wholly attached by adhesive, wallcoverings for subsequent decoration, and non-decorative wallcoverings such as wall linings or those with special properties, e.g. thermal or acoustic insulation.

2 References

- EN 233 : 1989 Wallcoverings in roll form – Specification for finished wallpapers, wall vinyls and plastics wallcoverings
- EN 235 : 1989 Wallcoverings in roll form – Vocabulary and symbols
- ISO 186 – 1985 Paper and board – Sampling to determine average quality
- ISO 187 – 1977 Paper and board – Conditioning of samples

3 Definitions

The definitions given in EN 235 : 1989 apply.

4 Dimensions

4.1 General

The area of the roll is not standardized but shall be declared; the permitted deviation from the declared value shall be not more than $\pm 3\%$.

The nominal width, or the useable width for untrimmed wallcoverings, and the nominal length shall be declared; the permitted deviation from the declared values shall be not more than $\pm 1,5\%$.

4.2 Method of measuring dimensions

Dimensions shall be measured in accordance with annex B.

5 Washability

For a wallcovering to comply with this standard its grade of washability shall be extra-scrubbable.

Accordingly the wallcovering when tested for 300 cycles in accordance with method C5(d) of annex C of EN 233 : 1989 shall exhibit no visible damage or change in comparison with the reference piece that would detract from its appearance as a wallcovering on a wall.

The symbol to be used to indicate this degree of washability is given in table 1, serial 2.4.

6 Colour fastness to light

6.1 Two grades of colour fastness to light of wallcoverings to this standard are recognized:

- very good: numerical rating not less than 6;
- excellent: numerical rating not less than 7.

6.2 The numerical rating for colour fastness to light shall be determined in accordance with annex D of EN 233 : 1989. A wallcovering to this standard shall not have a rating of less than 6.

6.3 The symbols to be used for indicating the grade of colour fastness to light are given in table 1, serials 3.4 and 3.5.

7 Impact resistance

For a wallcovering to comply with this standard it shall have an impact resistance of not less than 1 J.

Accordingly the wallcovering, when tested in accordance with annex C for impact resistance, shall exhibit no fracture of the surface which exposes the backing material or substrate of the wallcovering.

The symbol to be used for indicating impact resistance is given in table 1, serial 7.3.

8 Matching, application, removal and miscellaneous symbols

8.1 The symbols to be used for indicating pattern matching are given in table 1, serials 4.1 to 4.4.

8.2 The symbols to be used for indicating the means of application are given in table 1, serials 5.1 to 5.3.

8.3 The symbols to be used for indicating the method of removal are given in table 1, serials 6.1 to 6.3.

8.4 The symbol to be used for indicating the desirability of overlapping joins and double cutting is given in table 1, serial 7.1.

9 Marking

9.1 Visible markings

When compliance with this standard is claimed, the roll, outer wrapper or a separate label inside the wrapper of a roll of wallcovering shall state the special characteristics of the wallcovering in such a way that the following information is readily visible to the purchaser without removing any outer wrapper from an individual roll.

- The number of this European Standard, i.e. EN 259*.
- Name or identification mark of manufacturer, supplier, or distributor.
- Product description, i.e. 'Heavy duty wallcovering' with the symbol 7.3 from category 7 of table 1, and, where appropriate, terms from

EN 235 : 1989. (The term 'Heavy duty wallcovering' shall not be applied to any product not complying with the minimum requirements of this standard.)

- Identification of the product, i.e. pattern number, batch number.
- The width, length and area of the roll.
- The washability grade, i.e. extra-scrubbable, using the symbol 2.4 from category 2 of table 1.
- The grade of colour fastness to light, i.e. whether very good or excellent, using the appropriate symbol from category 3 of table 1.
- The means of application, using the appropriate symbol(s) from category 5 of table 1.
- The need to reverse alternate lengths, if this is an essential requirement for satisfactory appearance, using the symbol 4.4 from category 4 of table 1.
- Type of adhesive to be used.

9.2 Additional markings

If necessary, the following information shall be given on the roll, on a label or on an information sheet enclosed with the roll.

- Additional hanging instructions, e.g. overlap and double cut, using the symbol 7.1 from category 7 of table 1.
- Design repeat and match, using the appropriate symbol from category 4 of table 1.
- Method of removal, using the appropriate symbol from category 6 of table 1.

9.3 Marking of fire behaviour

If any claim is made concerning fire behaviour, then the testing procedure used to determine this, and the classification achieved, shall be given.









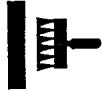

9.4 Consistency of marking

The information given in promotional literature, in the pattern book, marked on the pattern slip and marked on cartons shall be consistent with the information given with the roll as defined in 9.1 to 9.3.






10 Designation

If a designation system is used for the wallcoverings covered by this standard, it shall be in accordance with table 1 and annex E.

* Such marking is a claim of compliance with EN 259 but does not imply CEN approval of the product; the accuracy of this claim is therefore solely the responsibility of the person applying the marking.

Table 1. Symbols for marking purposes			
Category and serial number	Description	Symbol	Designation character (see annex E)
2 Washability			
2.4	Extra-scrubbable		E
3 Colour fastness to light			
3.4	Very good		6
3.5	Excellent		7
4 Pattern matching			
4.1	Free match		
4.2	Straight match	 (with, added, the dimensions of design repeat in cm, e.g. 50)	
4.3	Offset match	 (with, added, the dimensions of design repeat and distance offset, in cm, e.g. 50/25)	
4.4	Reverse alternate lengths		
5 Means of application ¹⁾			
5.1	Adhesive to be applied to the wallcovering		G } J
5.2	Adhesive to be applied to the support to be decorated		H }
5.3	Prepasted (Ready pasted)		K

¹⁾ Where symbols in this category require to be used in combination e.g. 5.1 and 5.2, the necessary symbols shall be given as shown, separated by a + sign of equivalent size to these symbols.

Table 1. Symbols for marking purposes (concluded)			
Category and serial number	Description	Symbol	Designation character (see annex E)
6 Method of removal			
6.1	Strippable		1
6.2	Peelable		2
6.3	Wet removable		3
7 Miscellaneous			
7.1	Overlap and double cut		
7.3	Impact resistant		

Annex A. Sampling for testing (Normative annex)

Samples for testing shall be taken from wallcoverings, not less than 14 days after manufacture, in accordance with ISO 186¹⁾ except that:

- (a) the rolls selected for sampling may be chosen at random or, if the manufacturer in marking indicates the order of packing from his making, the selection may be made with reference to the order of packing;
- (b) the method of cutting sheets shall be modified so that each specimen shall commence at least 1 m from the end of the roll and shall extend across the whole width of the roll; it shall extend not less than 500 mm along the length of the roll.

The total area of material taken from each roll shall be at least twice the area of the pieces required for testing to permit repeat tests without resampling.

Annex B. Method of measuring dimensions (Normative annex)

B.1 Instrument

A steel rule or metal tape graduated in metric units to an accuracy of 0,1 mm.

B.2 Preparation

Measurements shall be made on rolls selected for sampling in accordance with annex A and conditioned in accordance with ISO 187.

NOTE. The measurement of very large rolls of heavy duty wallcoverings may be difficult to perform actually under the conditions of ISO 187 but should be undertaken as soon as practicable after such conditioning.

B.3 Procedure

(a) Width

Place the roll on a flat, hard, horizontal surface, wear surface uppermost, so that the full width of the roll is exposed. Apply the graduated rule or tape over the specimen in a direction at right angles to the longitudinal direction, in such a way that the width is not distorted. Read the nominal or usable width from the rule or tape to the nearest 0,001 m.

Make five separate measurements across the width of the roll at equal intervals along the full length of the roll.

State the width of the roll as the arithmetic mean of the five results obtained.

(b) Length

Place the roll on a flat, hard, horizontal surface, wear surface uppermost, so that the full length of the roll is exposed. Apply the graduated rule or tape over the specimen, parallel to the longitudinal direction, in such a way that the length is not distorted. Read the length from the rule or tape to the nearest 0,01 m.

Make two separate measurements on the roll.

State the length of the roll as the arithmetic mean of the two results obtained.

Annex C. Method of test for impact resistance (Normative annex)

C.1 Principle

A test piece cut from the heavy duty wallcovering, bonded to 12,5 mm plasterboard, is struck at an oblique angle of 30° with a precisely defined striker of impact energy 1 J. The test piece is then examined for fracturing of its surface.

NOTE. Information regarding source(s) of the test materials and apparatus specified in this annex is available from the National Standards Body.

C.2 Materials

Plasterboard, extra hard grade, of thickness 12,5 mm $\pm 0,4$ mm and weight unit area $10,25 \text{ kg/m}^2 \pm 1,75 \text{ kg/m}^2$.

Before use in the preparation of test pieces as described in C.4, the plasterboard shall be examined for its suitability for this purpose, in respect of a general absence of voids, by carrying out the procedure described in C.5 on a representative sample of the plasterboard without any wallcovering attached.

Examine the resulting depressions on the impacted sample of plasterboard; if not less than 4 out of the 5 impacts have produced a consistent depth of impression the material is suitable for the preparation of test pieces for testing wallcoverings.

C.3 Apparatus

The apparatus for this test is of the falling weight type and a typical example is shown in figure 1.

The apparatus consists of the following:

- (a) A heavy rigid base fitted with levelling screws enabling the guide tube to be positioned vertically at an angle of $90^\circ \pm 0,1^\circ$ to the horizontal in all directions.

¹⁾ For the purposes of this EN a *making* is regarded as equivalent to a *lot* and a *roll* is a *unit*. Thus if a consignment consists of more than one *making* of material, each *making* is sampled separately.