
Embalaža - Otipni opozorilni znaki - Zahteve

Packaging - Tactile danger warnings - Requirements

Verpackungen - Tastbare Gefahrenhinweise - Anforderungen

Emballages - Indications tactiles de danger - Exigences

Ta slovenski standard je istoveten z: EN 272:1989

SIST EN 272:1996

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ICS:

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| 11.180.30 | Pripomočki in prilagoditve za branje | Aids and adaptations for reading |
| 55.020 | Pakiranje in distribucija blaga na splošno | Packaging and distribution of goods in general |

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EUROPEAN STANDARD

EN 272

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English version

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CEN

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

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Brief History

Following a standardization request by the EC-Commission, CEN/TC 100 was established in 1981 to develop a standard for tactile danger warnings in order to improve the physical protection of consumers.

The standard should give the technical specifications in order to comply with article 15 clauses 2 and 3 of the directive 79/831/CEC as well as directive 78/631/CEC.

In 1984 the committee had to realize that it was not possible to agree on a draft within the specified time given by the EC-Commission and also because the committee scope was extended.

From 1984 to 1986 the committee was dormant until the Commission gave a new standardization request.

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, Luxemburg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

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0 Introduction

When blind and visually handicapped persons are handling a package it is difficult or impossible for them to ascertain whether it contains harmless or dangerous substances or preparations.

This problem may be solved by

- providing packages which contain dangerous substances or preparations, with a tactile symbol in accordance with this standard.
- teaching the blind and visually handicapped persons the meaning and the positioning of the tactile symbol on the package.

This standard specifies a tactile symbol which in its form is a raised and equilateral triangle.

For the blind and visually handicapped persons the tactile symbol is simple in its presentation, it makes the teaching and learning process easy and provides a guarantee of recognition.

1 Object and field of application

This standard specifies the requirements for a tactile danger warning on packagings which are intended for certain dangerous substances and preparations.

Pharmaceutical products are not included.

This standard does not specify the dangerous substances and preparations to be contained in packagings with a tactile danger warning. These are to be specified by Legislative Authorities.

2 Definitions

For the purpose of this standard the following definitions apply:

<https://standards.iteh.ai/catalog/standards/sist/67a99024-eeb4-4772-b547-666758565106/en-272-1996>

2.1 dangerous: Description specified by Legislative Authorities for certain substances (see 2.1.1) and preparations (see 2.1.2).

2.1.1 substances: Chemical elements and their compounds as they occur in the natural state or as produced by industry.

2.1.2 preparations: Mixtures or solutions composed of two or more substances.

2.2 packaging: Any form of container in which substances or preparations are directly packaged.

2.3 package: Packaging with content.

2.4 bottom: Normal standing surface of the packaging.

2.5 handling surface: That part of the package which is touched by the user during normal use, viz. picking up or handling when opening and emptying the contents of the package.

2.6 edge: Zone where the upright surface(s) and the bottom meet.

3 General requirements

The tactile symbol shall be placed on the packaging and not on any secondary packaging, such as a carton box protecting a glass bottle.

Packagings with a bottom shall be provided with a tactile symbol on the upright handling surface near the edge.

For packagings not provided with a bottom, (see 6.3).

The requirements laid down in clauses 4, 5, 6, 7 and 8 shall be fulfilled.

4 Requirements for the tactile symbol

The symbol is considered as tactile when it complies with the requirements laid down in clause 5.

This applies equally to symbols which are an integral part of the packaging or presented otherwise, e.g. on an adhesive label or attached to the packaging.

5 Symbol dimensions

5.1 Normal size

The symbol shall be an equilateral triangle with sharp or rounded corners, (see figure 1).

At the corners, the sides shall either be joined or not more than 1,0 mm apart.

The length L of the side shall be $18 \text{ mm} \pm 2 \text{ mm}$.

The triangle shall consist of a frame, of which the width B shall be $1,7 \text{ mm} \pm 0,2 \text{ mm}$.

The height H of the frame cross section shall be between 0,25 mm and 0,5 mm.

The minimum area of the cross section of the frame shall be $\frac{1}{2} H \times B$, and the shape of the cross section may for example be rectangular or semicircular, (see section AA).

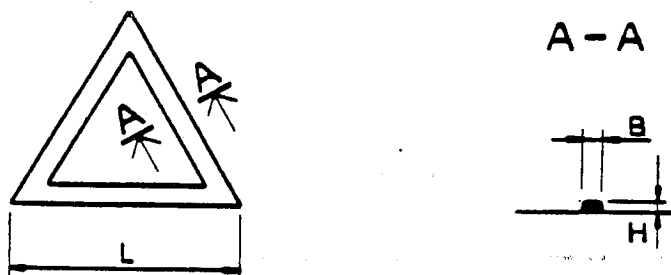


Figure 1 — Tactile danger warning symbol

5.2 Reduced size

A tactile symbol of reduced dimensions, (see figure 1), may be used for small packagings (see 6.4) or for flexible packagings with integral symbols.

$L = 9 \text{ mm} \pm 1 \text{ mm}$

$B = 1 \text{ mm} \pm 0,2 \text{ mm}$

$H = \text{Between } 0,25 \text{ mm and } 0,5 \text{ mm.}$

6 Location of the symbols

6.1 General requirements

The tactile symbol shall be located in such a way that any other embossed patterns do not cause confusion.

When two symbols are required according to clause 7, these shall be spaced equally from each other.

6.2 Packagings with bottom

The whole of each tactile symbol(s) shall be located on the upright handling surface near the edge within the range indicated in figure 2, such that the top of the triangle is not more than 50 mm from the bottom of the packaging.

6.3 Packagings without bottom

The tactile symbol(s) shall be located on the handling surface as near as possible to the opening system(s) or the normal point(s) of opening.

6.4 Small packagings

If the packaging is too small to carry a normal size tactile symbol according to 5.1, the reduced size symbol according to 5.2 shall be used. The location is at the discretion of the manufacturer.

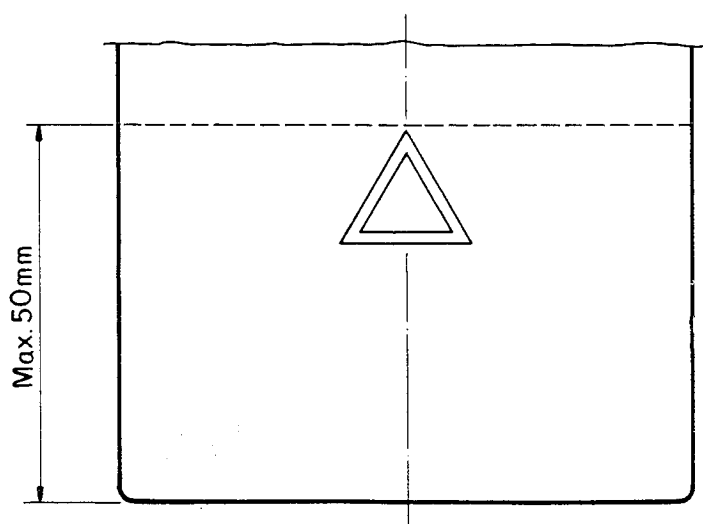


Figure 2 — Location of the tactile danger warning symbol on packagings with bottom

7 Number of symbols

7.1 Packagings with bottom

7.1.1 Rectangular or square packagings:

One symbol is required on one of the short sides if the length of that side is 110 mm or less.

If the short side is greater than 110 mm one symbol shall be located on each of the short sides; for square packagings a symbol shall be located on two opposite sides.

7.1.2 Round packagings

One symbol is required if the diameter of the packaging is 110 mm or less. If it is larger two symbols in total shall be located.

7.1.3 Other shapes of packagings

One symbol is required if the perimeter of the packaging at the edge is 345 mm or less. If it is larger two symbols in total shall be located.

7.2 Packagings without bottom

One symbol is required if the volume of the packaging is 1.5 litre or less. If it is larger two symbols in total shall be located.

8 Durability of the tactile symbol

The symbol shall remain tactile during the expected period of use of the package under normal handling conditions.