



SLOVENSKI STANDARD

SIST EN 50045:1998

01-februar-1998

Low-voltage switchgear and controlgear for industrial use - Mounting rails - Tophat rails, 15 mm wide for the fixing of terminals blocks

Low-voltage switchgear and controlgear for industrial use - Mounting rails - Tophat rails, 15 mm wide for the fixing of terminals blocks

Industrielle Niederspannungs-Schaltgeräte - Tragschienen Hutschiene 15 mm breit zur Befestigung von Reihenklammern

Appareillage industriel à basse tension - Profilés support - Profilé chapeau de largeur 15 mm pour la fixation de jonction

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Ta slovenski standard je istoveten z: EN 50045:1980

ICS:

29.130.20	Nizkonapetostne stikalne in krmilne naprave	Low voltage switchgear and controlgear
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Key words: electrical switchgear and controlgear, low voltage, industrial use, domestic application, mounting rail, mounting of equipment, snap-on-mounting, top hat rail, steel rail, dimensional standardization

English version

Low voltage switchgear and controlgear for industrial use
Mounting rails
Top hat rails, 15 mm wide
for the fixing of terminal blocks

Appareillage industriel à basse tension —
profilés supports — profilé chapeau de largeur
15 mm pour la fixation des blocs de jonction

Industrielle Niederspannungs-Schaltgeräte —
Tragschienen — Hutschiene 15 mm breit zur
Befestigung von Reihenklammern

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Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CENELEC General Secretariat or to any CENELEC member.

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REPUBLIKA SLOVENIJA
MINISTRSTVO ZA ZNANOST IN TEHNOLOGIJO
Urad RS za standardizacijo in meroslovje
LJUBLJANA

SIST..... EN 50045

PREVZET PO METODI RAZGLASITVE

CENELEC

-02- 1998

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

General Secretariat: rue Bréderode 2, B-1000 Brussels

This European Standard has been prepared by CENELEC Technical Committee 17X.

1. General

To promote the universal use of mounting rails for the mounting of equipment, certain types of rails being standardized.

Two types of rails are specified in European Standard EN 50 022, top hat rails, 35 mm wide for the *snap-on mounting* of equipment.

For equipment which is either too large or too heavy for either of the 35 mm rails, a 75 mm wide top hat rail is specified in European Standard EN 50 023, for *snap-on mounting* of equipment.

For the mounting of equipment *by means of screws*, C profile rails are specified in European Standard EN 50 024.

In European Standard EN 50 035 a G profile rail is specified, which is still widely used, and especially intended for *snap-on mounting or screw fixing* of terminal blocks.

This European Standard specifies requirements for top hat rails, which are especially intended for *snap-on mounting* of terminal blocks.

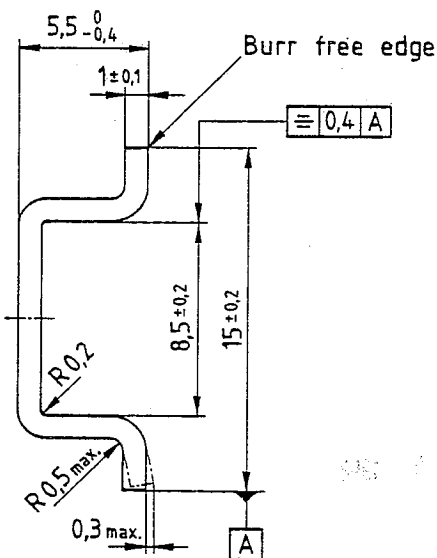
2. Scope

This European Standard specifies requirements for one size of top hat steel rails for the fixing of terminal blocks.

3. Dimensions

Dimensions of top hat rails are shown in figure 1.

The dimensions shall apply over the whole length of the top hat rail, verification of these dimensions shall not be made less than 10 mm from each end.



Dimensions in mm.

Figure 1. Top hat rails, 15 mm wide

4. Designation

The designation of a top hat rail, 15 mm wide and 5 mm high shall be as follows:

Top hat rail EN 50 045 – 15 x 5.

5. Material

The material used shall be cold rolled carbon steel sheet, and have the following characteristics:

- skin passed after annealing,
- bright surface finish,
- with a tensile strength between 320 N/mm² and 420 N/mm²
- elongation at least 30 %
- 180° bend test horizontally and transversally with regard to the direction of rolling.

Each country may indicate its corresponding national standard.

Other qualities of steel may be used only by agreement between the manufacturer and the user.

6. Finish

The finish shall be of zinc-plating and chromating, with a layer thickness of at least 6 µm, except for cut surface resulting from cutting to length.

Other finishes may be used by agreement between the manufacturer and the user.

7. Availability

Top hat rails shall be supplied either in manufactured lengths of at least 1 m or in ready-cut lengths.

8. Tolerances on form

The tolerances on form shall be as shown in figure 2 with symbols in accordance with ISO/R 1101*.

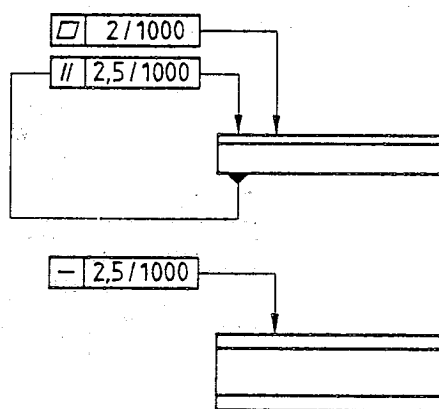


Figure 2. Tolerances on form

*Reference of corresponding national standard (see National appendix B).