



SLOVENSKI STANDARD
SIST EN 1777:2005/oprA1:2008

01-september-2008

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Hydraulic platforms (HPs) for fire fighting and rescue services - Safety requirements and testing

Hubrettungsfahrzeuge für Feuerwehren und Rettungsdienste, Hubarbeitsbühnen (HABn)
- Sicherheitstechnische Anforderungen und Prüfung

Bras Élevateur Aérien (BEA) des services d'incendie et de secours - Prescriptions de
sécurité et essais

Ta slovenski standard je istoveten z: EN 1777:2004/prA1

ICS:

13.220.10 Gašenje požara Fire-fighting

SIST EN 1777:2005/oprA1:2008 en,fr,de

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

FINAL DRAFT
EN 1777:2004

prA1

July 2008

ICS 13.220.10

English Version

Hydraulic platforms (HPs) for fire fighting and rescue services - Safety requirements and testing

Bras Élevateur Aérien (BEA) des services d'incendie et de secours - Prescriptions de sécurité et essais

Hubrettungsfahrzeuge für Feuerwehren und Rettungsdienste, Hubarbeitsbühnen (HABn) - Sicherheitstechnische Anforderungen und Prüfung

This draft amendment is submitted to CEN members for unique acceptance procedure. It has been drawn up by the Technical Committee CEN/TC 192.

This draft amendment A1, if approved, will modify the European Standard EN 1777:2004. If this draft becomes an amendment, CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for inclusion of this amendment into the relevant national standard without any alteration.

This draft amendment was established by CEN 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 CEN Management Centre has the same status as the official versions.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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Foreword

This document (EN 1777:2004/prA1:2008) has been prepared by Technical Committee CEN/TC 192 "Fire service equipment", the secretariat of which is held by BSI.

This document is currently submitted to the Unique Acceptance Procedure.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For relationship with EU Directive(s), see informative Annexes ZA and ZB, which are integral parts of this document.

The reason for amending the published standard EN 1777:2004 are as follows:

The revision of the EC-Machinery Directive 98/37/EC into 2006/42/EC requires the modification of published European Standards cited in the Official Journal of the European Communities under that Directive. If no amendment is made by the committee experts, then the standard would be updated with an Annex Z stating that it does NOT meet the requirements of 2006/42/EC. This would result in the standard being removed from the Official Journal and becoming a non-harmonized standard.

To keep the published standard EN 1777:2004 as a harmonized standard it was carefully checked against the new EC-Machinery Directive 2006/42/EC and it was established that EN 1777:2004 meets the Essential Health and Safety Requirements (EHSR) of the new EC-Machinery Directive 2006/42/EC in nearly all requirements of the standard. Only a few requirements were established for a necessary amendment. CEN/TC 192 has therefore decided to use the Type 2 amendment track, which is a 5 months UAP amendment with the addition of a new Annex ZB, only few technical update as well as minor editorial changes.

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EN 1777:2004/prA1:2008 (E)

1 Modification to the Foreword, 4th paragraph

Replace the existing 4th Paragraph with the following:

"For relationship with EU Directive(s), see informative Annexes ZA and ZB, which are integral parts of this document."

2 Modification to 5.3, Chassis and stabilizers

Add the following new subclause 5.3.26:

5.3.26 An electrically conducting connection between the HP and the bearing surface shall be ensured during operation. For HPs which are constructed for operation with stabilizers, the jacking devices shall provide an electrically conducting connection between the HP and the bearing surface. Blocks shall conform to these requirements.

Verification: by visual examination."

3 Modification to 5.5.2.1.2, Wire rope drive systems

Replace the text of subclause 5.5.2.1.2 with the following:

"Wire rope, drum and pulley diameters shall be calculated according to normative Annex D, assuming that all the load is taken on one wire rope system. (standards.iteh.ai)

Wire rope drive systems shall have a separate system which, in the event of a rope failing, limits the vertical movement of the fully loaded platform to 0.2 m. This requirement is met, for example, by:

- a) a second wire rope system designed according to the first system, and with a device to approximately equalize the tension in the two systems, doubling the coefficient of utilization,
or
- b) a second wire rope system, designed according to the first system with a device to ensure that the second system takes less than half the load in the operating condition, but is able to take the full load if the first system fails. Failure of the first system shall be self-revealing,
or
- c) a second wire rope system according to a) but with larger drum and pulley diameters to increase the fatigue life of the second system.

See Figure 13 for examples.

Each rope shall have their own anchorage.

Verification: by design check and visual examination."

4 Modification to 5.5.3.1.2, Chain drive systems

Replace the text of subclause 5.5.3.1.2 with the following:

"Chain drive systems with a single chain drive shall have a minimum coefficient of utilization of 5 assuming that all the load is taken on that system.

Chain drive systems shall have a separate system which, in the event of a chain failing, limits the vertical movement of the fully loaded platform to 0,2 m. This requirement is met, for example, by:

- a) a second chain drive system designed according to the first system but each system having a minimum coefficient of utilization of 4, giving a total coefficient of utilization of 8, with a device to approximately equalize the tension in the two systems,
- or
- b) a second chain drive system designed according to the first system, but with a minimum coefficient of utilization of 4 (a total of 9 minimum) and with a device to ensure that the second system takes less than half the load in the operating condition, but is able to take the full load if the first system fails. Failure of the first system shall be self-revealing.

Each chain shall have their own anchorage.

Verification: by design check and visual examination."

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5 Modification to 7.1.1, General

In the first paragraph, replace "EN ISO 12100-2:2003 Clause 5.6" with "EN ISO 12100-2:2003, 6.5".

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6 Modification to 7.1.2, Operating instructions, which shall give detailed information necessary for safe use. e.g.

Replace the existing text of item k) with the following:

- "k) information concerning vibrations transmitted by the machinery to the hand-arm system and to the whole body:
 - 1) the vibration total value to which the hand-arm system is subjected, if it exceeds $2,5 \text{ m/s}^2$. Where this value does not exceed $2,5 \text{ m/s}^2$, this shall be mentioned;
 - 2) the highest root mean square value of weighted acceleration to which the whole body is subjected, if it exceeds $0,5 \text{ m/s}^2$. Where this value does not exceed $0,5 \text{ m/s}^2$, this shall be mentioned;
 - 3) the uncertainty of measurement (whenever values are indicated).

The values indicated shall be either those actually measured for the machinery in question or those established on the basis of measurements taken for technically comparable machinery which is representative of the machinery to be produced. The vibration shall be measured using the most appropriate measurement code for the machinery concerned and the operating conditions during measurement and the measurement codes used shall be described."

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Add a new item s) at the end of the list in 7.1.2 to be read as follows:

- "s) information concerning the radiation emitted for the operator and exposed persons where machinery is likely to emit non-ionising radiation which can cause harm to persons, in particular persons with active or non-active implantable medical devices."

7 Modification to 7.1.4, Information on commissioning

Add the following new 3rd item in 7.1.4:

- "c) test report, where appropriate, detailing the static and dynamic tests carried out by or for the manufacturer or his authorised representative."

8 Modification to 7.1.7, Maintenance information for use by trained personnel (see introduction) e.g.

Replace the existing text of item f) with the following:

- "f) criteria for repair/replacement of parts, e.g. wire ropes and chains and the specifications of the spare parts to be used, when these affect the health and safety of operations;"

9 Modification to 7.2.2

Replace the existing 1st and 2nd dash in 7.2.2 with the following:

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- "– the business name and full address of the manufacturer and, where applicable, his authorised representative;
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- designation of the machinery;"

Add a new 4th dash and corresponding footnote to text in 7.2.2 before the dash "Serial or fabrication number" with the following text:

- "– mandatory marking¹⁾;"

Replace the existing 5th dash "Year of manufacture" in 7.2.2 with the following:

- "– the year of construction, that is the year in which the manufacturing process is completed;"

Add two new dashes in 7.2.2 before the dash "Unladen mass in kg" as follows:

- "– nominal power expressed in kilowatts (kW);
– mass of the most usual configuration, in kilograms (kg);"

¹⁾ For machines and their related products intended to be put on the market in the EEA, CE marking as defined in the applicable European directive(s), e.g. Machinery."

10 Modification to Figure 13

Delete Figure 13a and renumber Figures 13b to 13d accordingly.

11 Addition of new Annex ZB

Add the following new Annex ZB: "

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