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norm

Ontwerp

NEN-EN 1756-1

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Laadkleppen. Hefplateaus voor montage aan voertuigen. Veiligheidseisen. Deel 1: Laadkleppen voor goederen

Publikatie uitsluitend voor commentaar

Tail lifts. Platform lifts for mouting on wheeled vehicles. Safety requirements. Part 1: Tail lifts for goods

januari 1995
UDC 621.876.1:614.8

Commentaar voor 1 mei 1995

De European Committee for Standardization (CEN), waarin de nationale normalisatie-instituten van 18 Europese landen samenwerken, heeft gepubliceerd het Europese normontwerp:

prEN 1756-1 Tail lifts. Platform lifts for mouting on wheeled vehicles. Safety requirements. Part 1: Tail lifts for goods

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Normcommissie 345 006 "Hefwerktuigen"

Prijsklasse 36

Nederlands Normalisatie-instituut

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DRAFT
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Descriptors :

English version

Tail lifts - Platform lifts for mounting on wheeled vehicles - Safety requirements - Part 1: Tail lifts for goods

Hayons élévateurs - Hayons élévateurs à monter sur véhicules roulants - Prescriptions de sécurité - Partie 1: Hayons élévateurs pour marchandises

Hubladebühnen - Platform-Lifte für die Anbringung an Radfahrzeugen - Sicherheitsanforderungen - Teil 1: Hubladebühnen für Güter

This draft European Standard is submitted to the CEN members for CEN enquiry. It has been drawn up by Technical Committee CEN/TC 98 .

If this draft becomes a European Standard, 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.

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CEN

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

Central Secretariat: rue de Stassart 36, B-1050 Brussels

Ref. No. prEN 1756-1:1994 E

Contents list

Foreword

This European standard has been prepared by CEN/TC 98/WG 4. It defines safety requirements for platform lifts for mounting on wheeled vehicles (PLVs). It received approval from the CEN Technical Board on .....

0 Introduction

This standard has been prepared under Mandate given to CEN by the Commission of the European Communities and the Secretariat of the European Free Trade Association and supports essential requirements of EC Directives.

This standard comprises two parts :

Part 1 relates specifically to tail lifts for goods (whether or not accompanied by an operator)

Part 2 covers the special requirements of lifts for passengers, including those with disabilities.

The extent to which hazards are covered is indicated in the scope of this standard. In addition, PLVs shall comply as appropriate with EN 292, part 1, 2 and 3 [1] for hazards which are not covered by this standard.

1 Scope

This part of the standard specifies safety requirements for design and testing of platform lifts for mounting on wheeled goods vehicles and for safe use of PLVs.

It applies to PLVs

- used for the purpose of loading and/or unloading such vehicles.

- intended to be fitted, temporarily or permanently, either inside or on the front, side or rear of the wheeled vehicle.

- driven either by hand or by power .

- equipped with a platform to support loads which comprise goods with or without an operator.

Loading and/or unloading operations include the use of a PLV to lift and/or lower loads, and if specifically approved by the manufacturer, for use as a link bridge.

> Note : It should not be confused with a link bridge attached to a loading dock which is included within the definition of a dock leveller and is outside the scope of this standard.

The standard covers the significant hazards which could occur when a PLV is used as intended and under the conditions foreseen by the manufacturer. A list of significant hazards is given in clause 4.

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[1] in preparation

A PLV when installed becomes an integral part of the carrier vehicle. The stability of the vehicle and PLV combination against overturning demands detailed knowledge of the vehicle specification and is outside the scope of the standard.

2 Normative references

The standard incorporates by dated or undated references, provisions from other publications. This normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European standard when incorporated in it by amendment or revision. For undated references, the latest edition of the publication referred to applies.

EN 292-1 Safety of machinery - Basic concepts, general principles for design -Basic terminology, methodology

EN 292-2 Safety of machinery - Basic concepts, general principles for design - Technical principles and specifications

prEN 292-3 Safety of machinery - Basic concepts, general principles for design - Additional technical principles and specifications for mobility and for lifting.(in preparation)

EN 414 Safety in machinery, intructions for preparing and presenting safety standards.

EN 574 Safety of machinery - two hand control device

EN 60204-1 Electrical equipment of industrial machines - Part 1 : general requirements

pr EN 811 Safety of machinery - Safety distances to prevent danger zones being reached by the lower limbs.

pr EN 982 Safety requirements for fluid power systems and components - Hydraulics

3 Definitions

For the purpose of this standard, the following definitions apply :

3.1 platform lift for mounting on wheeled vehicle (PLV) : Lifting device suitable for installation on or in a wheeled vehicle and which is used for loading and/or unloading this vehicle. The device consists essentially of a platform, a drive system, supporting elements and one or more control positions.

3.2 light PLV : A PLV whose nominal load does not exceed 500 kg.

3.3 passenger PLV : A PLV specially designed or adapted to carry persons, particularly those of reduced mobility and including those in wheelchairs.

3.4 link bridge : Application of a PLV in which the platform is used to span from its associated vehicle, to any elevated position (that may be for example a dock or another vehicle), for the purpose of transfering loads to or from the vehicle.

3.5 PLV mechanisms : see annex A (informative).

3.6 **types of PLVs :** see annex A (informative).

3.7 **wheeled vehicle :** Vehicle, or vehicle body which is normally used for carrying goods and/or persons, for road, off-road or rail transport, excluding aircraft or marine applications.

3.8 **operator :** Any person given the task of operating the PLV.

Note : This is a restricted version of the definition given in EN 292-1.

3.9 **travelling position :** Any configuration which the PLV is intended to have while the vehicle is in motion

3.10 **working position :** Any configuration of the PLV in which the platform is intended to handle a load.

3.11 **operating position :** Any configuration of the PLV other than its travelling position.

3.11.1 **opening :** Any movement of the platform between a travelling position and a working position.

3.11.2 **closing :** Any movement of the platform from a working position to a travelling position.

3.11.3 **tilting :** Any angular movement to adjust the platform up or down during working.

3.12 **working area :** Area on and around the platform and the controls

3.13 **danger zone :** Any zone on, under or in the path of the platform as well as around any part of the mechanism in which a person is exposed to risk of injury or damage to health .

Note : This definition shall not preclude the platform being a working area.

3.14 **platform width :** The dimension of the platform measured parallel to the edge adjacent to the vehicle (see figure 1).

In the case of a rotary lift having a rectangular platform, the width is the dimension of the platform perpendicular to the direction in which the load moves when entering and leaving the platform

3.15 **platform depth :** The dimension of the platform measured perpendicularly to the edge adjacent to the vehicle (see figure 1).

In the case of a rotary lift having a rectangular platform, the depth is the dimension of the platform parallel with the direction in which the load moves when entering and leaving the platform

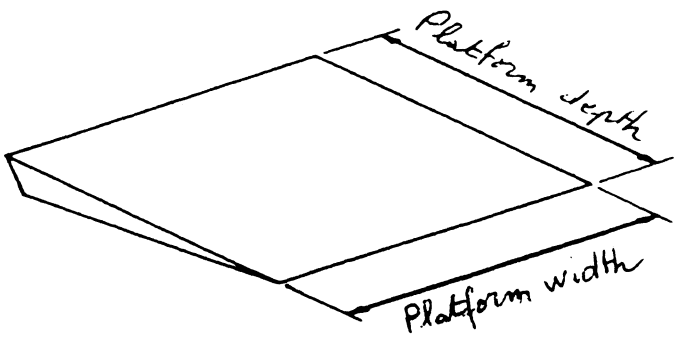

Figure 1 : platform width and depth

3.16 platform vertical travel distance : The distance between the lowest and the highest positions respectively the platform can assume when its surface is horizontal (see figure 2).

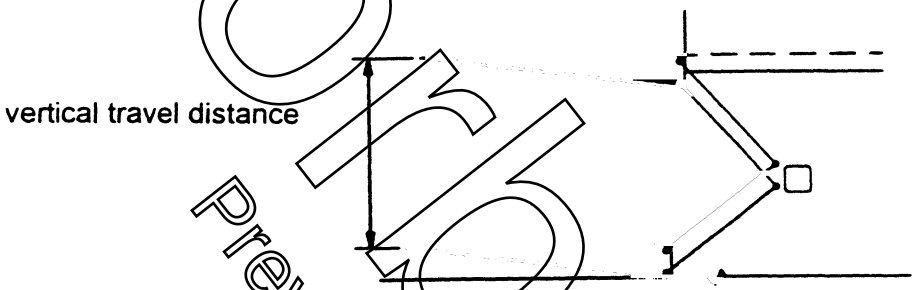

Figure 2 : platform vertical travel distance

3.17 vertical speed : The platform vertical travel distance divided by the time taken by the platform to move through this distance.

3.18 load : Any weight applied to the platform surface. It includes payload plus any load handling equipment and the weight of the operator if he is standing on the platform.

3.19 maximum load : The highest permitted load as a funtion of its position on the platform as specified by the manufacturer.

3.20 nominal load : The maximum load having its centre of gravity on the centre line of the platform and placed at a distance from the edge adjacent to the vehicle of either half the platform depth or 600 mm, whichever is the lesser distance. In the case of a platform larger than 0,5 m², the load is distributed over 0,5 m² ; in the case of a smaller platform, the load is distributed over any other area specified by the manufacturer (see figure 3).

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