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Firefighting and rescue service vehicles - Part 1: Nomenclature and designation

Feuerwehrfahrzeug - Teil 1: Nomenklatur und Bezeichnung

Véhicules des services de secours et de lutte contre l'incendie - Partie 1: Nomenclature et désignation

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EUROPEAN STANDARD

EN 1846-1

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EUROPÄISCHE NORM

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English version

Firefighting and rescue service vehicles - Part 1: Nomenclature and designation

Véhicules des services de secours et de lutte contre l'incendie - Partie 1: Nomenclature et désignation

Feuerwehrfahrzeuge - Teil 1: Nomenklatur und Bezeichnung

This European Standard was approved by CEN on 11 December 1997.

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, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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

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Foreword

This European Standard has been prepared by Technical Committee CEN/TC 192 "Fire service equipment", the secretariat of which is held by BSI.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by July 1998, and conflicting national standards shall be withdrawn at the latest by July 1998.

EN 1846 consists of the following parts, under the general title "Firefighting and rescue service vehicles" :

- Part 1 : Nomenclature and designation,
- Part 2 : Common requirements - Safety and performance,
- Part 3 : Permanently installed equipment - Safety and performance requirements.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

Introduction

This part of the EN 1846 has been prepared in order to define a common designation system of firefighting and rescue service vehicles.

It also identifies the main characteristics of any motor vehicle by a serial number and letter as defined in the following clauses which may be used in invitations to tender within Europe.

1 Scope

This part of EN 1846 applies to firefighting and rescue service vehicles.

It establishes classes and defines categories which are functions of the use and mass of the vehicles.

A designation system gives the various criteria used for characterizing the vehicles.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These 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 only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

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prEN 1777	1994	Hydraulic platforms (HPs) for fire services - Safety requirements and testing
prEN 1789		Medical vehicles and their equipment - Ambulances
prEN 1028-1		Fire fighting pumps - Part 1 : Requirements of fire fighting centrifugal pumps with primer
prEN 1028-2		Fire fighting pumps - Part 2 : Testing of fire fighting centrifugal pumps with primer
prEN 1846-2	1996	Firefighting and rescue service vehicles - Part 2 : Common requirements - Safety and performance
ISO 3833	1977	Road vehicles - Types - Terms and definitions

3 Definitions

For the purposes of this part of EN 1846, the following definitions apply. Other specific definitions exist in the other parts of EN 1846.

3.1 motor vehicle : Any power-driven road vehicle which has four or more wheels, which is not rail borne, and which is normally used for :

- carrying persons and/or goods,
- towing vehicles used for the carriage of persons and/or goods,
- special service.

[3.1 of ISO 3833:1977].

3.2 appliance : Covered motor vehicle designed for carrying personnel and equipment.

3.3 fire appliance : Appliance used for firefighting and/or rescue.

3.4 demountable : Specially designed container that can be easily mounted on and removed from a suitable vehicle. (standards.iteh.ai)

3.5 trailer : A non-power-driven road vehicle which, on account of its design and appointments is used to transport persons or goods and is intended to be towed by a motor vehicle ; semi-trailer is included in this category [3.2 of ISO 3833:1977].

3.6 amphibious motor vehicle : Vehicle capable of moving on land and water.

4 Motor vehicle mass classes

All motor vehicles with gross laden mass (GLM as defined in 3.2 of prEN 1846-2:1996) greater than 2 t shall be classified according to one of the following three classes depending on their GLM.

- Light (L) : $2 \text{ t} < \text{GLM} \leq 7,5 \text{ t}$,
- Medium (M) : $7,5 \text{ t} < \text{GLM} \leq 14 \text{ t}$,
- Super (S) : $\text{GLM} > 14 \text{ t}$.

5 Motor vehicle categories

All motor vehicles shall be classified according to one of the following three categories depending on their ability to negotiate varying ground conditions :

- category 1 : Urban

Motor vehicle normally used on constructed road surfaces.

- category 2 : Rural

Motor vehicle capable of traversing all road and limited off road surfaces ;

- category 3 : All terrain

Motor vehicle capable of traversing all road and cross-country.

6 Motor vehicle groups

Depending on their main application, fire appliances shall be subdivided into the following groups :

- firefighting and rescue appliance :

- . pumping appliance,

- . appliance for specific fire.

- high rise aerial appliance :

- . turntable ladder,

- . hydraulic platform.

- rescue tender,

- fire service ambulance,

- damage control tender,

- command and control appliance,

- personnel carrying vehicle,

- support vehicle,

- other specialized motor vehicle.

The groups are defined below.

6.1 Firefighting and rescue appliance

6.1.1 Pumping appliance

Fire appliance equipped with a pump complying with the requirements of prEN 1028-1 and prEN 1028-2, and usually a water tank, and other equipment required for firefighting and rescue purposes.

6.1.2 Appliance for specific fire

Fire appliance with special equipment with or without special extinguishing media.

6.2 High rise aerial appliance

Fire appliance incorporating a turntable ladder or hydraulic platform.

6.2.1 Turntable ladder

Extending structure which is in the form of a ladder with or without a cage. It is slewed on the base.

6.2.2 Hydraulic platform

Extending structure with a cage, composed of one or more rigid or telescopic, articulating or scissor mechanism or any combination of them in the form of booms and/or ladders. It may or may not slew on the base (in accordance with 3.2 and 3.3 of prEN 1777:1994).

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6.3 Rescue tender

Fire appliance equipped to undertake rescue operations e.g. :

- location and rescue of people,
- accident recovery,
- forcing entry,
- animal rescue.

6.4 Fire service ambulance

A motor vehicle meeting the requirements of prEN 1789 operated by fire service personnel and designed for the care and transport of patients. It may also include other facilities for the specific use of the fire service.

6.5 Damage control tender

Fire appliance with equipment to protect property and to limit damage to the environment e.g :

- pollution hazard,
- chemical hazard,
- radiological hazard
- biological hazard,
- salvage.

6.6 Command and control appliance

Fire appliance with communication and other equipment to command operations.

6.7 Personnel carrying vehicle

Fire appliance able to convey fire service personnel and their individual equipment.

6.8 Support vehicle

Fire appliance able to convey equipment or extinguishing media to reinforce an operationally engaged unit.

6.9 Other specialised motor vehicle

Fire appliance designed for special or specific task eg :

- aircraft operation,
- operation on or under water,
- railway operation.

7 Motor vehicle designation

All motor vehicles shall be designated by six specific characteristics depending upon the motor vehicle group in which they are contained (see table 1 and examples 1 and 2).