



NSAI
Standards

Irish Standard
I.S. EN 15432-1:2011

Winter and road service area maintenance equipments - Front-mounted equipments - Part 1: Fixed front mounting plates

I.S. EN 15432-1:2011

Incorporating amendments/corrigenda/National Annexes issued since publication:

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I.S. xxx: Irish Standard – national specification based on the consensus of an expert panel and subject to public consultation.

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SWIFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

This document replaces:
EN 15432:2008

This document is based on:
EN 15432-1:2011

Published:
27 July, 2011

This document was published
under the authority of the NSAI
and comes into effect on:
27 July, 2011

ICS number:

43.160

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Údarás um Chaighdeáin Náisiúnta na hÉireann

English Version

Winter and road service area maintenance equipments - Front-mounted equipments - Part 1: Fixed front mounting plates

Matériels de viabilité hivernale et d'entretien des dépendances routières - Équipement frontal - Partie 1: Plaques de base avant fixes

Winterdienst- und Straßenbetriebsdienstausstattung - Frontanbauausstattungen - Teil 1: Feste Frontanbauplatten

This European Standard was approved by CEN on 3 June 2011.

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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 CEN-CENELEC Management Centre has the same status as the official versions.

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Foreword

This document (EN 15432-1:2011) has been prepared by Technical Committee CEN/TC 337 “Winter maintenance and road service area maintenance equipment”, the secretariat of which is held by AFNOR.

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of an identical text or by endorsement, at the latest by January 2012 and conflicting national standards shall be withdrawn at the latest by January 2012.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document together with EN 15432-2 supersedes EN 15432:2008.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

1 Scope

This European Standard specifies the requirements for the various elements of carrying vehicles to ensure interchangeability between a vehicle and different equipments that are to be mounted frontally. It specifies certain interchangeability dimensions of the front mounting plate, including its height above the ground, as well as the locations of coupling devices for electrical and hydraulic connections and for mechanical power take off (PTO).

This European Standard specifies three different classes of mounting plates in order to cover road vehicles, independently from vehicle category and maximum permissible load, of the greatest possible variety (commercial vehicles, multi-purpose vehicles, communal vehicles,...) which are capable of carrying front-mounted equipments for winter maintenance and for road service area maintenance.

This European Standard specifies, with regard to electrical and hydraulic connections and to PTO, only location areas, clearance spaces and preferred layout in order to ensure interchangeability. Requirements applying to connectors, coupling devices and PTO splines are given in EN 15431.

Normative Annex A specifies provisions for an advanced front coupling system that is able to allow for mounting and demounting equipments without the use of tools. Users having to address specific needs (e.g. extreme weather conditions) may require the vehicle be fitted with such automatic coupling system.

Normative Annex B gives provisions for a compact and light front mounting plate intended for combined road and off-road applications.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 15431, *Winter and road service area maintenance equipments — Power system and related controls — Interchangeability and performance requirements*

ISO 1176:1990, *Road vehicles — Masses — Vocabulary and codes*.

3 Interchangeability requirements

3.1 Front mounting plate

3.1.1 General provisions

Mounting plates of all classes, as defined in following 3.1.2, shall be designed and installed to the carrying vehicle so as to allow for the easy and safe tilting of the cabin (if the vehicle has been designed to provide for this facility).

Mounting plates of all classes, as defined in following 3.1.2, shall be designed and installed to the carrying vehicle so as to allow for the mounting of a front towing hitch (if the vehicle has been designed to provide for this facility). Compliance to this requirement may be achieved in different ways, e.g. by a pivoting or folding mounting plate, by an appropriate un-obstructing design or by provisions for direct mounting of the hitch to the mounting plate itself.

Characteristics of the quick-coupling system designed to allow for mounting and demounting of equipments without the use of tools are given in Annex A.

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