

**Winter and road service area maintenance equipment -
Mechanical interface on vehicles for front-mounted
equipment - Part 2: Interchangeability on lifting systems**

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 15432-2:2013 sisaldab Euroopa standardi EN 15432-2:2013 ingliskeelset teksti.	This Estonian standard EVS-EN 15432-2:2013 consists of the English text of the European standard EN 15432-2:2013.
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English Version

Winter and road service area maintenance equipments - Front-mounted equipments - Part 2: Interchangeability on lifting systems

Matériels de viabilité hivernale et d'entretien des dépendances routières - Interface sur les véhicules pour matériels montés à l'avant - Partie 2: Interchangeabilité des systèmes de levage

Winterdienst- und Straßenbetriebsdienstausstattung - Frontangebaute Maschinen - Teil 2: Austauschbarkeit an Hubsystemen

This European Standard was approved by CEN on 14 March 2013.

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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 15432-2:2013) has been prepared by Technical Committee CEN/TC 337 “Winter 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of an identical text or by endorsement, at the latest by October 2013, and conflicting national standards shall be withdrawn at the latest by October 2013.

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 “*Winter and road service area maintenance equipments - Front-mounted equipments*” consists of the following parts:

- *Part 1: Fixed front-mounting plates*
- *Part 2: Interchangeability on lifting systems*

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, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

1 Scope

This European Standard specifies the requirements for elements mounted to 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 as well as the locations of coupling devices for electrical and hydraulic connections.

This European Standard specifies a mounting plate in order to cover road vehicles having a maximum total mass of up to 6,0 tons (commercial vehicles, multi-purpose vehicles, communal vehicles, ...) which are capable of carrying front-mounted equipments for winter maintenance and for road service area maintenance. The mounting plate is designed to allow quick and easy changing of carrying vehicle equipments. Mounting or demounting of front-mounted equipments is generally effectuated by one person using conventional tools (mobile or fixed) prior to securing of the front-mounted equipment (by e.g. bolts or hydraulic element).

This European Standard does not specify vehicle-side lifting systems or receiving devices for mounting plate (device side).

The vehicle body guidelines from the vehicle manufacturer should be adhered to when performing any modifications to the vehicle.

This European Standard specifies, with regard to electrical and hydraulic connections, only location areas and clearance spaces in order to ensure interchangeability.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. 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*

3 Interchangeability requirements — F4 front mounting plate

3.1 General provisions

Mounting plates as defined in 3.2 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 as defined in 3.2 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 a towing facility). Compliance to this requirement may be achieved in different ways, e.g. by a pivoting or folding mounting plate or by a hitch integrated in the mounting plate itself.

3.2 F4 mounting plate class

Table 1 gives indication on installation heights and on recommended range of the maximum design total mass (ISO-M07, item 4.7 of ISO 1176:1990).

Installation height is measured with the carrying vehicle being at kerb mass (ISO-M06, item 4.6 of ISO 1176:1990) from the ground to the upper edge of the mounting plate (without pin), as shown in Figure 1.