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Road service area maintenance equipment - Part 3: Classification

Straßenbetriebsdienstausstattung - Teil 3: Klassifikation

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Road service area maintenance equipment - Part 3: Classification

This draft European Standard is submitted to CEN members for unique acceptance procedure. It has been drawn up by the Technical Committee CEN/TC 337.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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Foreword

This document (FprEN 15436-3:2014) has been prepared by Technical Committee CEN/TC 337 “Road operation equipment and products”, the secretariat of which is held by AFNOR.

This document is currently submitted to the Unique Acceptance Procedure.

This document will supersede EN 15436-3:2009.

Compared to the previous version, this new document is now a standard which includes few simplifications in order to clarify its application in conjunction with FprEN 15436-2.

EN 15436, *Road service area maintenance equipment*, is composed with the following parts:

- *Part 1: Terminology*;
- *Part 2: Performance assessment* [currently at UAP stage];
- *Part 3: Classification* [the present document];
- *Part 4: Delivery acceptance of the machines by the users*.

Introduction

Road service area grass cutting, brush cutting and mechanical plant cutting operations require special equipment that meets clearly defined technical criteria. This document defines and describes the classification criteria of the machines with respect to their kinematic and power performances.

The performance evaluation is described in FprEN 15436-2.

1 Scope

This document defines the classification criteria of the road service area maintenance equipment described in the scope of EN 15436-1 and used for:

- grass cutting and brush cutting;
- mechanical plant cutting.

This equipment is mounted on self-propelled carrying vehicles, and is intended, on the one hand, for cutting and shredding grass and brushwood, and, on the other hand, for trimming trees, saplings and bushes in road service areas. This document is intended to be used also in conjunction with FprEN 15436-2.

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 15436-1:2008, *Road service area maintenance equipment — Part 1: Terminology*

FprEN 15436-2:2014, *Road service area maintenance equipment — Part 2: Performance assessment*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 15436-1:2008 and FprEN 15436-2:2014 apply.

4 Performance requirements

4.1 Criteria

Machine shall fulfil the 4 h testing method (as described in FprEN 15436-2:2014, 7.4.2 or 8.4.2) and has a cutting tool stopping time ≤ 5 s for a width of the cutting head $\leq 1,6$ m or ≤ 7 s for a width of the cutting head $> 1,6$ m.

4.2 Tolerances on characteristics for machine construction

The tolerances on each characteristic between the value declared by the manufacturer and the measured value are given in Table 1 (see below).

Table 1 — Tolerances on each kinematic characteristic

Accepted tolerances on the characteristics			
Kinematic characteristics	Dimensional characteristics	Cutting width (l_c) (for each cutting head)	± 2 cm
		Cutting height (h_c) (for each cutting head)	$\pm 0,5$ cm
		Cutting head clearance angle – 2 angles α_1 and α_2	$\pm 3^\circ$
		Horizontal range (A + XP)	$\pm 1,5$ %
		Horizontal clearance (Dh)	$\pm 1,5$ %
		Embankment range (E) or (R = E+F)	$\pm 1,5$ %
		Ditch range (D_1) or (D = E+F)	$\pm 1,5$ %
		Ditch range with slide rail (Dg)	$\pm 1,5$ %
		Offset (S) or (Dp)	$\pm 1,5$ %
		Variable offset	$\pm 1,5$ %
		Vertical range (B)	$\pm 1,5$ %
		Hedge size range (I)	± 5 %
		Hedge side position variation Δ (I)	± 5 %
		Maximum hedge topping height(C)	± 2 %
	Transfer dimensions and weight	Maximum height (H)	+ 0 ; – 4 cm
		Width (L1+L2)	± 2 cm
		Length (Lg ₁)	± 5 cm
		Length (Lg ₂)	± 5 cm
		Machine weight without balancing masses P	± 4 %