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Standards

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I.S. EN 15429-2:2012

# Sweepers - Part 2: Performance requirements and test methods

## I.S. EN 15429-2:2012

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## Sweepers - Part 2: Performance requirements and test methods

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méthodes d'essai

Kehrmaschinen - Teil 2: Anforderungen an die Leistung und  
Prüfverfahren

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## Foreword

This document (EN 15429-2:2012) 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of an identical text or by endorsement, at the latest by June 2013, and conflicting national standards shall be withdrawn at the latest by June 2013.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.

Generally, all surface cleaning machines – sweepers, are designed to clean paved surfaces of varying textures associated with areas exposed to vehicular traffic, pedestrians and those within industrial complexes.

Most of these sweepers are equipped with sweep gear to scarify debris with a pick-up system that collects and conveys the spoil into a hopper. This hopper can be discharged at dumping grounds, unloading stations, into containers or at refuse transfer stations.

Sweeping applications are mainly related to the physical size and dimensions of the sweeper. Sweepers of larger dimensions are designed to operate mainly on streets, highways, motorways, large parking areas and within industrial complexes.

Sweepers of smaller dimensions are designed for the cleaning of inner town streets, pedestrian zones, pavements, bicycle lanes, car parking facilities market places and within industrial plants etc. Manœuvrability is one of the main features of this category of sweeper.

Depending on the dimensions, sweeping attachment equipment (e.g. equipment temporally mounted on multi-purpose carrier vehicles or other machines) may be used in similar applications as above.

Additional equipment for specialised cleaning applications; that may be attached to a sweeper is not covered by this standard.

This document (EN 15429-2:2012) is part of a series of documents made up of the following parts:

- EN 15429-1, *Sweepers - Part 1: Classification and Terminology*;
- EN 15429-2, *Sweepers - Part 2: Performance requirements and test methods*;
- prEN 15429-3, *Sweepers - Part 3: Efficiency of particulate matter collection - Testing and Evaluation*;
- prEN 15429-4, *Sweepers - Part 4: Symbols for operator controls and other displays*.

According to the CEN/CENELEC Internal Regulations, the national standards organisations 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 applies to surface cleaning machines for outdoor applications in public areas, roads, airports and industrial complexes. Cleaning machines for winter maintenance and/or indoor applications are not included within the scope of this European Standard. Surface cleaning machines in terms of this standard, are self-propelled, truck mounted, attached sweeping equipment or pedestrian controlled.

This European Standard deals with the performance and functional characteristics and the test methods applied to the sweeping equipment when used as intended and under the conditions foreseen by the manufacturer.

This European Standard does not include carrier vehicles (e.g. trucks). These are covered in national or EU Directives for vehicles.

This European Standard does not apply to road surface cleaning equipment that would be front mounted on tractors according to EN 13524, or other vehicles.

This European Standard does not apply to machines or components that are specifically designed for cleaning tramlines and rail tracks.

This European Standard does not cover noise emission or any overload protection as these are covered by regulatory requirements.

Industrial sweepers, within the scope of EN 60335-2-72 are excluded from this standard.

## 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 12281, *Printing and business paper — Requirements for copy paper for dry toner imaging processes*

EN 15429-1, *Sweepers — Part 1: Classification and Terminology*

ISO 612:1978, *Road Vehicles — Dimensions of motor vehicles and towed vehicles — Terms and definitions*

## 3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 15429-1, ISO 612 and the following apply.

### 3.1 performance

numerical value or meeting a criterion resulting from a defined test method or as a theoretical value from a calculation

Note 1 to entry: Additionally, performance may be stated as a value resulting from a calculation with no associated test conducted, in which case, the declaration shall be disclosed as a theoretical value.

### 3.2 functional characteristics

describes the operational requirements of a system or a mechanism

### 3.3 test method

discloses a procedure to achieve the performance criteria

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