

## **Teemärgistusmaterjalid. Teedel tehtavad katsed**

Road marking materials - Road trials

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## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 1824:2011 sisaldab Euroopa standardi EN 1824:2011 ingliskeelset teksti.

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English Version

## Road marking materials - Road trials

Produits de marquage routier - Essais routiers

Straßenmarkierungsmaterialien - Feldprüfungen

This European Standard was approved by CEN on 22 April 2011.

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 CEN-CENELEC Management Centre or to any CEN member.

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## Foreword

This document (EN 1824:2011) has been prepared by Technical Committee CEN/TC 226 "Road 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of an identical text or by endorsement, at the latest by December 2011, and conflicting national standards shall be withdrawn at the latest by December 2011.

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 supersedes EN 1824:1998.

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.

The Annexes A to G of this European Standard are normative and Annex H is informative.

This European Standard is one of a package of inter-related European Standards with a common date of withdrawal (dow) fixed on December 2011 (*including the request of an extension for the co-existence period*):

- EN 1790, *Road marking materials — Preformed road markings,*
- EN 1824, *Road marking materials — Road trials,*
- EN 1871, *Road marking materials — Paint, thermoplastic and cold plastic materials — Specifications,*
- EN 12802, *Road marking materials — Laboratory methods for identification,*
- EN 13197, *Road marking materials — Wear simulator Turntable,*
- EN 13212, *Road marking materials — Requirements for factory production control,*
- EN 13459, *Road marking materials — Sampling and testing.*

## 1 Scope

This document specifies the requirements for conducting road trials for road marking materials intended for use in both permanent and temporary road marking. Details are given for test sites, for the application of road marking materials on the test sites, for the parameters to be measured and the frequency of the measurements and for the presentation of the results in the form of a test report.

## 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 1436, *Road marking materials — Road marking performance for road users*

EN 13036-1, *Road and airfield surface characteristics — Test methods — Part 1: Measurement of pavement surface macrotexure depth using a volumetric patch technique*

## 3 Terms and definitions

For the purpose of this document, the following terms and definitions apply.

### 3.1 roll-over

number of wheels passing over a point of a road surface within a specified period of time

### 3.2 useful rate of application

quantity, expressed in  $\text{g}\times\text{m}^{-2}$ , of drop-on and/or non-drop materials which have adhered to the road marking substrate, when lines are done

### 3.3 rate of consumption during application

quantity, expressed in  $\text{g}\times\text{m}^{-2}$ , of drop-on or injection materials at the exit of the guns of the application equipment

### 3.4 percentage of heavy vehicles

ratio between the number of heavy vehicles and the number of all vehicles circulating on the test site

## 4 Test sites and conditions

### 4.1 General

Test sites shall be arranged at suitable locations in accordance with 4.2 to 4.5. The test results may depend on test field location, climate, road surface and traffic which shall be described according to 4.2 to 4.6.

### 4.2 Test sites characteristics and location

The test site shall be located in an area which belongs to one of the climatic classes defined in 4.3.

The test site shall consist of a field, where the road marking materials are to be applied, with extra space at both ends. The roads used for test sites should be straight and flat and without junctions, substantial obstacles to daylight, sources of frequent dirt (quarries, field exits, etc.) or tracked vehicles.