

## Road marking materials - Wear simulator Turntable

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## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

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ICS 93.080.20

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English Version

## Road marking materials - Wear simulator Turntable

Produits de marquage routier - Simulateur d'usure tournant

Straßenmarkierungsmaterialien - Verschleißsimulator

This European Standard was approved by CEN on 22 April 2011 and includes Amendment 1 approved by CEN on 13 March 2014.

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## Foreword

This document (EN 13197:2011+A1:2014) has been prepared by Technical Committee CEN/TC 226 "Road equipment", the secretariat of which is held by AFNOR.

**[A1]** This document **[A1]** shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by October 2014, and conflicting national standards shall be withdrawn at the latest by October 2014.

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 includes Amendment 1 approved by CEN on 13 March 2014.

This document supersedes **[A1]** EN 13197:2011 **[A1]**.

The start and finish of text introduced or altered by amendment is indicated in the text by tags **[A1]** **[A1]**.

The Annex A of this European Standard is normative and Annexes B to E are informative.

**[A1]** The former edition, EN 13197:2011, was **[A1]** 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*.

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 wear simulator test for road marking materials intended for use in both permanent and temporary road markings including those with increased retroreflection under wet and rain conditions, without road studs.

It gives description for the equipment and for test plate's characteristics; it also gives description for the test method involving road marking materials application, test conditions during wear test, parameters to be measured, frequency of the measurements and expression of the results as a test report.

This document gives also the requirements to be followed when the test is to be used for CE marking purposes.

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

Ⓐ deleted text Ⓐ

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

## 3 Terms and definitions

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

### 3.1

#### **support angle**

angle between a plane perpendicular to the axle of the loading wheel and the vertical

### 3.2

#### **steering angle**

angle between a plane perpendicular to the axle of the loading wheel and a plane tangential to the movement of the loaded wheel relative to the test plates

### 3.3

#### **wheel passages (wp)**

number of loading wheels that have passed over a test plate

### 3.4

#### **measurement area**

summary of those areas of all the test plates of one tested product that are subject to wheel passages, which makes it possible to determine the required measurements

### 3.5

#### **control plate**

test plate of a standard material and with a standard road marking material included in each test run for indication of correct procedure

### 3.6

#### **rolling line**

circumferential line characterised by the central line of the contact area of loading tyre