

Road and airfield surface characteristics - Test methods - Part 7: Irregularity measurement of pavement courses - the straightedge test

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 13036-7:2003 sisaldab Euroopa standardi EN 13036-7:2003 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 17.09.2003 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 13036-7:2003 consists of the English text of the European standard EN 13036-7:2003.</p> <p>This document is endorsed on 17.09.2003 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p>Käsitlusala:</p> <p>This European Standard describes a standard apparatus and a test method (see NOTE of A.1) for measuring single irregularities attributable to quality defects in new surface course(s) of roads, airfields and other trafficked surfaces as well as in-service surfaces</p>	<p>Scope:</p> <p>This European Standard describes a standard apparatus and a test method (see NOTE of A.1) for measuring single irregularities attributable to quality defects in new surface course(s) of roads, airfields and other trafficked surfaces as well as in-service surfaces</p>
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Võtmesõnad: aggregates, appointments, area, pavements, properties, road construction, road superstructure, roads, roadstone aggregates, surface discontinuities, surface inspections, surface layers, surface properties, surface roughness, surfaces, testing, unevenness

English version

**Road and airfield surface characteristics - Test methods - Part 7:
Irregularity measurement of pavement courses : the
straightedge test**

Caractéristiques de surface des routes et aérodromes -
Méthodes d'essai - Partie 7: Mesurage des déformations
localisées des couches de roulement des chaussées: essai
à la règle

Oberflächeneigenschaften - Prüfverfahren - Teil 7:
Messung von Einzelunebenheiten von Deckschichten für
Straßen, Flugplätze und andere Verkehrsflächen -
Messung mit der Richtlatte

This European Standard was approved by CEN on 28 November 2002.

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 Management Centre or to any CEN member.

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 Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and United Kingdom.



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Foreword

This document EN 13036-7:2003 has been prepared by Technical Committee CEN/TC 227 "Road materials", the secretariat of which is held by DIN.

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 February 2004, and conflicting national standards shall be withdrawn at the latest by February 2004.

This European Standard is one of a series of standards as listed below.

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

prEN 13036-2, *Road and airfield surface characteristics — Test methods — Part 2: Procedure for determination of skid resistance of a pavement surface.*

EN 13036-3, *Road and airfield surface characteristics — Test methods — Part 3: Measurement of pavement surface horizontal drainability.*

EN 13036-4, *Road and airfield surface characteristics — Test methods — Part 4: Method for measurement of slip/skid resistance of a surface — The pendulum test.*

prEN (WI 00227131)-5, *Road longitudinal evenness Definition (and calculation methods) of the longitudinal evenness indices.*

prEN (WI 00227132)-6, *Road longitudinal evenness Longitudinal evenness — Profilametric test methods.*

EN 13036-7, *Road and airfield surface characteristics — Test methods — Part 7: Irregularity measurement of pavement courses — The straightedge test.*

Annex A is normative and Annex B is informative.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and the United Kingdom.

Introduction

This European Standard describes a simple apparatus and a test method for the measurement of irregularities in surfaces. Compliance within specified limits of irregularities is a prime determinant of quality in new construction. Irregularities in the surface course of roads can cause high dynamic wheel load variations and impede surface water drainage to the detriment of durability and adversely affect vehicle handling, safety, running costs and comfort.

NOTE This apparatus can also be used transversely to measure rut depth of in-service roads. This application is the subject of a separate standard prEN (WI 00227133).

1 Scope

This European Standard describes a standard apparatus and a test method (see NOTE of A.1) for measuring single irregularities attributable to quality defects in new surface course(s) of roads, airfields and other trafficked surfaces as well as in-service surfaces.

This test method is not applicable to providing information on profile or general unevenness. Single irregularities are by nature random, and consequently no routine sampling rates or precision data are specified.

2 Terms and definitions

For the purposes of this European Standard, the following terms and definitions apply.

- 2.1**
irregularity
maximum variance of a surface from the measurement edge of the straightedge between two contact points of the straightedge when placed perpendicular to the surface
- 2.2**
pavement
structure composed of one or more courses, to assist the passage of wheeled traffic over terrain
- 2.3**
layer
structural element of a pavement laid in a single operation
- 2.4**
surface
surface of an individual layer
- 2.5**
surface course
upper layer of the pavement which is in contact with the traffic
- 2.6**
detritus
loose surface matter