



**SLOVENSKI STANDARD**  
**kSIST FprEN ISO 13473-5:2009**  
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Characterization of pavement texture by use of surface profiles - Part 5: Determination of megatexture (ISO 13473-5:2009)

Charakterisierung der Textur von Fahrbahnbelägen unter Verwendung von Oberflächenprofilen - Teil 5: Bestimmung der Megatextur (ISO 13473-5:2009)

Caractérisation de la texture d'un revêtement de chaussée à partir de relevés de profils de la surface - Partie 5: Détermination de la mégatexture (ISO 13473-5:2009)

**Ta slovenski standard je istoveten z: FprEN ISO 13473-5**

**ICS:**

**17.140.30**

Emisija hrupa transportnih sredstev

Noise emitted by means of transport

**93.080.20**

Materiali za gradnjo cest

Road construction materials

**kSIST FprEN ISO 13473-5:2009**

**en,fr,de**



EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**FINAL DRAFT**  
**FprEN ISO 13473-5**

July 2009

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ICS 17.140.30; 93.080.20

English Version

## Characterization of pavement texture by use of surface profiles - Part 5: Determination of megatexture (ISO 13473-5:2009)

Caractérisation de la texture d'un revêtement de chaussée  
à partir de relevés de profils de la surface - Partie 5:  
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Charakterisierung der Textur von Fahrbahnbelägen unter  
Verwendung von Oberflächenprofilen - Teil 5: Bestimmung  
der Megatextur (ISO 13473-5:2009)

This draft European Standard is submitted to CEN members for unique acceptance procedure. It has been drawn up by the Technical Committee CEN/TC 227.

If this draft becomes a European Standard, 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.

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## Foreword

The text of ISO 13473-5:2009 has been prepared by Technical Committee ISO/TC 43 “Acoustics” of the International Organization for Standardization (ISO) and has been taken over as FprEN ISO 13473-5:2009 by Technical Committee CEN/TC 227 “Road materials” the secretariat of which is held by DIN.

This document is currently submitted to the Unique Acceptance Procedure.

### Endorsement notice

The text of ISO 13473-5:2009 has been approved by CEN as a FprEN ISO 13473-5:2009 without any modification.

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**Characterization of pavement texture by  
use of surface profiles —**

**Part 5:  
Determination of megatexture**

*Caractérisation de la texture d'un revêtement de chaussée à partir de  
relevés de profils de la surface —*

*Partie 5: Détermination de la mégatexture*

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**ISO 13473-5:2009(E)****Foreword**

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 13473-5 was prepared by Technical Committee ISO/TC 43, *Acoustics*, Subcommittee SC 1, *Noise*.

ISO 13473 consists of the following parts, under the general title *Characterization of pavement texture by use of surface profiles*:

- *Part 1: Determination of Mean Profile Depth*
- *Part 2: Terminology and basic requirements related to pavement texture profile analysis*
- *Part 3: Specification and classification of profilometers*
- *Part 4: Spectral analysis of surface profiles* [Technical Specification]
- *Part 5: Determination of megatexture*

## Introduction

Pavement surface texture largely influences factors such as noise emission caused by tyre/road interaction (Reference [7]), tyre/pavement friction (Reference [8]), and comfort, as well as rolling resistance and wear of tyres. Reliable methods of texture measurement are therefore essential.

Texture is subdivided into micro-, macro- and megatexture according to ISO 13473-2. A method for measurement and calculation of a macrotexture indicator based on a profile measurement is specified in ISO 13473-1. A procedure for measuring macrotexture by the volumetric patch method is described in ISO 10844:1994<sup>[2]</sup>, Annex A. Currently, no reliable and practical method of measuring pavement microtexture *in situ* is available. This part of ISO 13473 aims to provide means of measuring and calculating megatexture indicators useful for pavement surface characterization.

Megatexture is an important texture range lying between macrotexture and unevenness. This type of texture has wavelengths of the same order of magnitude as a tyre/road interface and is often a result of potholes or 'washboarding'. Some common types of singularities, such as a single depressed or protruding spot on the pavement, will also show up in a texture profile spectrum as megatexture. Although some pavements, such as paving stones, possess an intrinsic megatexture, it is usually an unwanted characteristic resulting from defects in the surface.

The scope of ISO 13473 (all parts) does not include profile analysis of road unevenness, which is dealt with in ISO 8608<sup>[1]</sup>.

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