Raudteealased rakendused. Rööbastee. Rööbastee geomeetriline kvaliteet. Osa 4: Mõõtesüsteemid. Käsi- ja kergseadmed

Railway applications - Track - Track geometry quality - Part 4: Measuring systems - Manual and lightweight devices

EESTI STANDARDIKESKUS
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NATIONAL FOREWORD

See Eesti standard EVS-EN 13848-4:2011 sisaldab Euroopa standardi EN 13848-4:2011 ingliskeelset teksti.	This Estonian standard EVS-EN 13848-4:2011 consists of the English text of the European standard EN 13848-4:2011.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 21.12.2011.	Date of Availability of the European standard is 21.12.2011.
Standard on kättesaadav Eesti Standardikeskusest.	The standard is available from the Estonian Centre for Standardisation.

Tagasisidet standardi sisu kohta on võimalik edastada, kasutades EVS-i veebilehel asuvat tagasiside vormi või saates e-kirja meiliaadressile standardiosakond@evs.ee.

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Railway applications - Track - Track geometry quality - Part 4: Measuring systems - Manual and lightweight devices

Applications ferroviaires - Voie - Qualité géométrique de la voie - Partie 4: Systèmes de mesure - Dispositifs manuels et de faible poids

Bahnanwendungen - Oberbau - Qualität der Gleisgeometrie - Teil 4: Messsysteme - Handgeführte und leichte Vorrichtungen

This European Standard was approved by CEN on 5 November 2011.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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Contents

Page

Foreword

This document (EN 13848-4:2011) has been prepared by Technical Committee CEN/TC 256 “Railway applications”, 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of an identical text or by endorsement, at the latest by June 2012, and conflicting national standards shall be withdrawn at the latest by June 2012.

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 European Standard is one of the series EN 13848 “*Railway applications – Track – Track geometry quality*” as listed below:

— *Part 1: Characterisation of track geometry;*

— *Part 2: Measuring systems – Track recording vehicles;*

— *Part 3: Measuring systems – Track construction and maintenance machines;*

— *Part 4: Measuring systems – Manual and lightweight devices;*

— *Part 5: Geometric quality levels – Plain line;*

— *Part 6: Characterisation of geometric quality.*

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.

1 Scope

This part of this European Standard specifies the minimum requirements that shall be met by measuring systems fitted on track geometry measuring trolleys and manually operated devices to give an evaluation of track geometry quality when measuring one or more of the parameters described in EN 13848-1:2003+A1:2008. It sets out the acceptable differences from EN 13848-1:2003+A1:2008 when using track geometry measuring trolleys and manually operated devices to measure track geometry.

It applies to all track geometry measuring systems fitted to track geometry measuring trolleys and manually operated devices after the date of implementation of this standard.

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 13848-1:2003+A1:2008, *Railway applications – Track – Track geometry quality – Part 1: Characterisation of track geometry*

EN 13848-2:2006, *Railway applications – Track – Track geometry quality – Part 2: Measuring systems – Track recording vehicles*

EN 13848-5:2008+A1:2010, *Railway applications – Track – Track geometry quality – Part 5: Geometric quality levels – Plain line*

3 Terms and definitions

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

3.1
track geometry measuring trolley (TGMT)
trolley designed for measuring one or more track geometry parameters, having the following characteristics:

— self-propelled, hauled or moved by human force;

— portability (capability to be placed readily on or off the track manually or by other means);

— capability of measuring from standstill to the maximum permissible speed of the trolley;

— having wheels which do not load the track as defined in Clause 5 of EN 13848-1:2003+A1:2008.

3.2
manually operated device (MOD)
hand tool designed for measuring track gauge and/or cross level at standstill

3.3
sensor
device which detects, measures and translates characteristics of track geometry into quantities that can be used for further data processing