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KONSOLIDEERITUD TEKST**

Railway applications - Wheelsets and bogies - Wheels
- Tread profile CONSOLIDATED TEXT

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 13715:2006+A1:2010 sisaldab Euroopa standardi EN 13715:2006+A1:2010 ingliskeelset teksti.

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This standard is ratified with the order of Estonian Centre for Standardisation dated 31.12.2010 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.

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ICS 45.040

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English Version

Railway applications - Wheelsets and bogies - Wheels - Tread profile

Applications ferroviaires - Essieux montés et bogies -
Roues - Profil de roulement

Bahnanwendungen - Radsätze und Drehgestelle - Räder -
Radprofile

This European Standard was approved by CEN on 9 January 2006 and includes Amendment 1 approved by CEN on 14 September 2010.

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Foreword

This document (EN 13715:2006+A1:2010) 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of an identical text or by endorsement, at the latest by April 2011, and conflicting national standards shall be withdrawn at the latest by April 2011.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 comprises amendment 1 adopted by CEN on 2010-09-14.

This document supersedes EN 13715:2006.

The start and end of the text added or modified by the amendment is indicated in the text by the !" marks.

A1 This document has been prepared under a mandate given to CEN/CENELEC/ETSI by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive 2008/57/EC. **A1**

A1 For relationship with EU Directive 2008/57/EC, see informative Annex ZA, which is an integral part of this document. **A1**

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.

Introduction

This standard states requirements that are in accordance with the principles adopted by the International Union of Railways. It:

- describes the rules, parameters and construction methods of the wheel tread profile;
- defines the geometry of the flange and reverse slope. The thicknesses and height of the flange are determined by the railway undertaking or its representative in compliance with the normative documents in force;
- defines the co-ordinates and geometry of the following three reference tread profiles of the wheels and their reverse slope:
 - 1/40th (reverse slope 15 %);
 - S1002 (reverse slope 6,7 %, other value used 15 %) in conformity with UIC Leaflet 510-2;
 - EPS (reverse slope 10 %) equivalent to profile P8 of the United Kingdom with a flange 30 mm thick.

These three reference profiles are defined in Annexes B, C and D and represent original profiles from the time of their design, the flanges having been harmonized to a 32,5 mm flange thickness.

- defines the tolerances needed to achieve calibration control.

All the dimensions in this standard are given in millimetres.

1 Scope

This European Standard defines the tread profiles of wheels with a diameter greater than or equal to 330 mm used on vehicles running on European standard gauge track to fulfil interoperability requirements. These profiles apply to new wheels, whether free-standing or assembled as wheelsets, as well as to wheels that require reprofiling during maintenance.

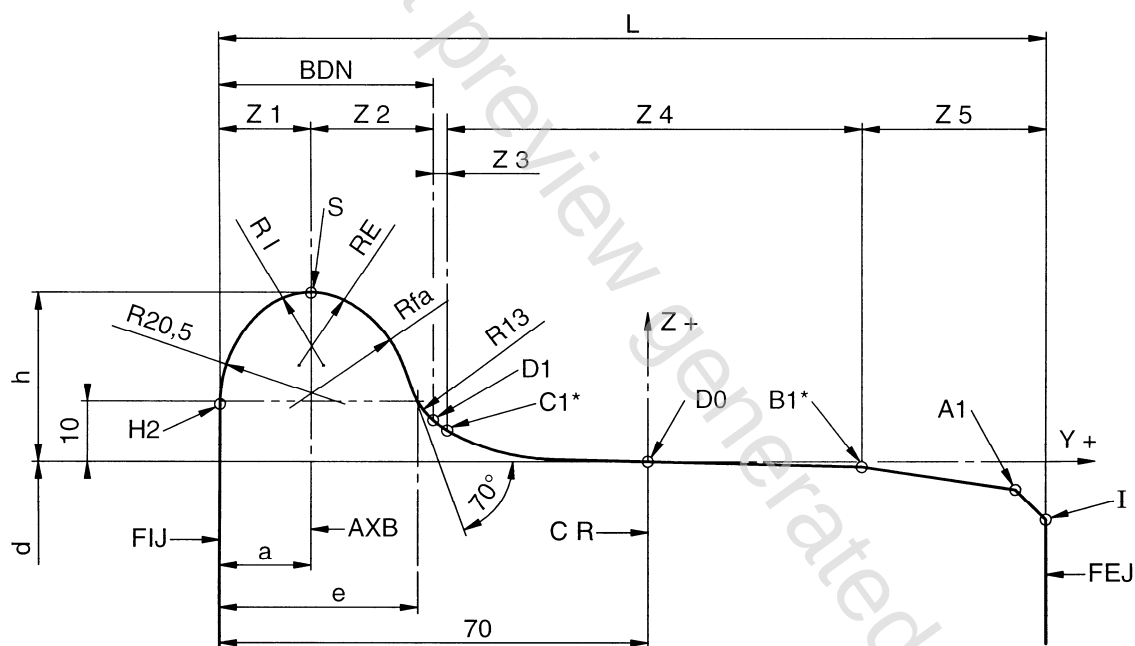
Any profile that does not conform to this standard shall only be used following agreement between the train operator and the infrastructure manager.

2 Normative references

None apply to this standard.

3 Definition of the tread profile

The tread profile is shown in Figure 1.



Key

The points marked with "*" relate respectively to the following profiles

B 1	S1002
B1a	1/40 th
B1b	EPS
C1	S1002
C1a	1/40 th
C1b	EPS

See Table 1 – Symbols and abbreviations

Figure 1 — Wheel tread profile