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Railway applications - Wheelsets and bogies - Wheels - Tread profile

Táto norma obsahuje anglickú verziu európskej normy.  
This standard includes the English version of the European Standard.

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English Version

## Railway applications - Wheelsets and bogies - Wheels - Tread profile

Applications ferroviaires - Essieux montés et bogies -  
Roues - Profil de roulementBahnanwendungen - Radsätze und Drehgestelle -  
Räder - Radprofile

This European Standard was approved by CEN on 29 June 2020.

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**EN 13715:2020 (E)****European foreword**

This document (EN 13715:2020) 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of an identical text or by endorsement, at the latest by January 2021, and conflicting national standards shall be withdrawn at the latest by January 2021.

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

This document supersedes EN 13715:2006+A1:2010.

This new revision includes minor amendments, mainly editorial, to help to fulfil TSI requirements.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive 2016/797/EU.

For relationship with EU Directive 2016/797/EU, see informative Annex ZA, which is an integral part of this document.

According to the CEN-CENELEC Internal Regulations, the national standards organisations 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, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

## **Introduction**

This document 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.

It 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.

It defines the coordinates and geometry of the following three reference tread profiles of the wheels and their reverse slope:

- 1/40<sup>th</sup> (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.

It defines the tolerances needed to achieve calibration control.

All the dimensions in this document are given in millimetres.

**EN 13715:2020 (E)****1 Scope**

This document defines the tread profiles of wheels with a diameter equal or greater than 330 mm used on rolling stock submitted to the Directive 2016/797/EU. These profiles apply to new wheels, whether free-standing or assembled as wheelsets, as well as to wheels that require reprofiling during maintenance.

**2 Normative references**

There are no normative references in this document.

**koniec náhľadu – text ďalej pokračuje v platenej verzii STN**