



Institut luxembourgeois de la normalisation  
de l'accréditation, de la sécurité et qualité  
des produits et services

## ILNAS-EN 13260:2020

### **Railway applications - Wheelsets and bogies - Wheelsets - Product requirements**

Applications ferroviaires - Essieux montés  
et bogies - Essieux montés - Prescriptions  
pour le produit

Bahnanwendungen - Radsätze und  
Drehgestelle - Radsätze -  
Produktanforderungen

09/2020



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ILNAS-EN 13260:2020

EUROPEAN STANDARD **EN 13260**

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**Railway applications - Wheelsets and bogies - Wheelsets -  
Product requirements**

Applications ferroviaires - Essieux montés et bogies -  
Essieux montés - Prescriptions pour le produit

Bahnanwendungen - Radsätze und Drehgestelle -  
Radsätze - Produktanforderungen

This European Standard was approved by CEN on 5 July 2020.

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## European foreword

This document (EN 13260:2020) was prepared by the CEN/TC 256 "Railway Applications" Technical Committee, the secretariat of which is held by the DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, by March 2021 at the latest, and all conflicting national standards shall be withdrawn no later than March 2021.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights or similar rights. CEN and/or CENELEC shall not be held responsible for identifying all or some of these patent rights.

This document supersedes EN 13260:2009+A1:2010.

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

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

For a description of the technical changes made in this new edition, see the Introduction.

The informative annexes to this document provide additional guidance that is not mandatory but that helps to understand or use the document.

**NOTE** The informative annexes may contain optional requirements. For example, a test method that is optional, or presented as an example, may contain requirements, but it is not necessary to meet these requirements to be in compliance with the document.

According to the CEN/CENELEC Internal Regulations, the national standards organisations of the following countries are required 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, the Netherlands, Norway, Poland, Portugal, the Republic of North Macedonia, the Republic of Serbia, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

## Introduction

After several years of use of the first editions of this document (EN 13260:2003, EN 13260:2009 and EN 13260:2009+A1:2010), this new edition includes improvements and additional data.

The product requirements have been harmonised across all three standards for wheelsets, wheels and axles.

In addition, the annexes concerning the qualification of the product and the conditions of supply of the product, which were previously informative, have been modified taking the feedback into account and have become normative.

Due to significant in-service feedback on wheelsets in accordance with European Product Design and Qualification Standards, the fatigue test for the assembly is now limited in this revision to specific assembly designs and processes.

Annex A, with the press-fitting curves, contains much more detail than the previous version.

Annex C contains information for identifying wheelset components on the basis of standard EN 15313. Also, the "freight wagon" and "locomotive and passenger vehicle" TSIs require the existence of a production verification process.

## 1 Scope

This document specifies the characteristics of wheelsets for all track gauges.

This document applies to heavy railway vehicles but may also apply to other vehicles such as light railway vehicles, trams or undergrounds.

This document applies to wheelsets made from elements defined by the following European Standards:

- EN 13262 for wheels;
- EN 13261 for axles.

The requirements defined in this standard apply to cylindrical wheel seats. Most of the requirements also apply to wheelsets with conical wheel seats. Specific requirements for conical wheel seats (e.g. press-fitting curves, geometric dimensions...) are defined in the technical specification.

Some characteristics are given according to category 1 or category 2.

## 2 Normative references

The following documents referred to in the text constitute, for all or part of their content, requirements of this document. For dated references, only the cited edition applies. For undated references, the last edition of the reference document applies (including any amendments).

EN 13103-1, *Railway applications – Wheelsets and bogies – Part 1: Design method for axles with external journals*

EN 13261, *Railway applications — Wheelsets and bogies — Axles — Product requirements*

EN 13262, *Railway applications — Wheelsets and bogies — Wheels — Product requirements*

## 3 Terms and definitions

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

ISO and IEC maintain terminology databases for standardisation, which can be accessed at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

### 3.1

#### Technical specification

A document describing specific parameters and/or product requirements in addition to the requirements of this document