

Nederlandse norm

NEN-EN 14535-2

(en)

Railway applications - Brake discs for railway rolling stock - Part 2: Brake discs mounted onto the wheel, dimensions and quality requirements

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Voorbeeld
 Preview

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Nederlands voorwoord

Voor de in deze norm vermelde normatieve verwijzingen bestaan in Nederland de volgende equivalenten:

<u>vermelde norm</u>	<u>Nederlandse norm</u>	<u>titel</u>
EN 14478:2005 prEN 15328	NEN-EN 14478:2005 NEN-EN 15328	Railverkeer - Remmen - Algemene woordenlijst Spoorwegtoepassingen - Remmen - Remschoenen

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English Version

**Railway applications - Brake discs for railway rolling stock - Part
 2: Brake discs mounted onto the wheel, dimensions and quality
 requirements**

Applications ferroviaires - Disques de frein pour matériel
 roulant ferroviaire - Partie 2: Disques de frein montés sur la
 roue, dimensions et exigences de qualité

Bahnanwendungen - Bremsscheiben für
 Schienenfahrzeuge - Teil 2: Bremsscheiben, die an einem
 Rad befestigt werden, Abmessungen und
 Qualitätsanforderungen

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Foreword

This document (EN 14535-2:2011) 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of an identical text or by endorsement, at the latest by December 2011 and conflicting national standards shall be withdrawn at the latest by December 2011.

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.

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

This series of European Standards *Railway applications — Brake discs for railway rolling stock* consists of:

- *Part 1: Brake discs pressed or shrunk onto the axle or drive-shaft, dimensions and quality requirements [1]*
- *Part 2: Brake discs mounted onto the wheel, dimensions and quality requirements*
- *Part 3: Brake discs, performance of the disc and of the pad and disc friction couple, classification¹⁾*

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NOTE On publication of Part 3, Part 2 may be reviewed to take into account any necessary changes.

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¹⁾ To be published.

Introduction

This European Standard gives the requirements to be met for the design, dimensions, performance and testing of the brake disc, hereafter called "disc". These requirements cannot be written in sufficient detail to ensure good workmanship or proper construction. Each manufacturer is therefore responsible for taking every necessary step to make sure that the quality of design, workmanship and construction is such as to ensure accordance with good engineering practice.

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Preview

1 Scope

This European Standard specifies requirements to be met for the design, dimensions, performance and testing of the brake disc.

This European Standard applies to brake discs mounted onto the wheel, including the wheel web or wheel hub of railway rolling stock.

For each discrete unit so fitted, one or more disc brake rings, each having one friction face, may be deployed.

This European Standard applies to discs designed to be fitted to rail vehicles used on the main national networks, urban networks, underground railways, trams, private networks (regional railways, company railways, etc.).

In addition to the common requirements, this European Standard also requires the items detailed in Clause 5 to be documented. For compliance with this European Standard, both the common requirements and the documented items need to be met.

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 14478:2005, *Railway applications — Braking — Generic vocabulary*

prEN 15328²⁾, *Railway applications — Braking — Brake pads*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 14478:2005 and the following apply.

3.1

brake disc

rotor having one or more co-planar annular friction faces for the engagement of brake pads and means of transmitting rotation between itself and the associated web or hub

NOTE 1 It may absorb and dissipate at least part of the brake energy.

NOTE 2 This definition is identical to 4.9.7.10 in EN 14478:2005.

3.2

friction face

radially and circumferentially extending planar surface of the disc available for frictional engagement of the brake pad(s)

3.3

brake ring

portion of the disc having the friction face

²⁾ To be published.

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