SLOVENSKI STANDARD
SIST EN 16185-1:2015/oprA1:2017

01-junij-2017

Železniške naprave - Zavorni sistemi motornih vlakov - 1. del: Zahteve in definicije

Railway applications - Braking systems of multiple unit trains - Part 1: Requirements and definitions

Bahnanwendungen - Bremssysteme für Triebzüge - Teil 1: Anforderungen und Definitionen

Applications ferroviaires - Systèmes de freinage pour trains automoteurs - Partie 1 : Exigences et définitions

Ta slovenski standard je istoveten z: EN 16185-1:2014/prA1

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ICS:

45.040	Materiali in deli za železniško tehniko	Materials and components for railway engineering

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

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EN 16185-1:2014
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ICS 45.040

English Version

Railway applications - Braking systems of multiple unit trains - Part 1: Requirements and definitions

Applications ferroviaires - Systèmes de freinage pour trains automoteurs - Partie 1 : Exigences et définitions

Bahnanwendungen - Bremssysteme für Triebzüge - Teil 1: Anforderungen und Definitionen

This draft amendment is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 256.

This draft amendment A1, if approved, will modify the European Standard EN 16185-1:2014. If this draft becomes an amendment, CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for inclusion of this amendment into the relevant national standard without any alteration.

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European foreword

This document (EN 16185-1:2014/prA1:2017) has been prepared by Technical Committee CEN/TC 256 “Railway applications”, the secretariat of which is held by DIN.

This document is currently submitted to the CEN Enquiry.

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.

For relationship with EU Directive, see informative Annex ZA, which is an integral part of EN 16185-1:2014.

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1 Modification to 3.16, maximum braking load

Delete Note 1 to entry.

2 Modification to Clause 6, Braking performance

Add new subclause 6.2 after 6.1:

"6.2 Relevant load conditions

The brake performance calculation shall consider the following load conditions (as described in EN 15663):

— minimum load: “design mass in working order”;

— normal load: “design mass under normal payload”;

— maximum braking load: load condition lower or equal to “design mass under exceptional payload”.

For braking purposes the following shall be considered:

— 0 kg/m² in the standing area for trains with restricted seat reservation system which means no standing passengers at all;

— 160 kg/m² in the standing area for high speed and long distance trains;

— 300 kg/m² in the standing area for vehicles other than high speed and long distance trains;

— any special cases of load condition defined by the design specification.

All other conditions (seats occupied, luggage areas, etc.) are in line with the definition for the design mass under exceptional payload in accordance with EN 15663."

Update numbers of the following clauses in 6 and the cross references to the subclauses 6.3 to 6.5.

3 Modification to Annex ZA

Replace the current Annex ZA with the following:

ANNEX ZA
(informative)

Relationship between this European Standard and the Essential Requirements of EU Directive 2008/57/EC aimed to be covered

This European Standard has been prepared under a Commission’s standardization request M/483 to provide one voluntary means of conforming to the essential requirements of the Directive2008/57/EC on the interoperability of the rail system (recast)

Once this standard is cited in the Official Journal of the European Union under that Directive2008/57/EC, compliance with the normative clauses of this standard given in Table ZA.1 for TSI locomotive and passenger RST and table ZA.2 for TSI SRT confers within the limits of the scope of this standard, a presumption of conformity with the corresponding Essential Requirements of that Directive and associated EFTA regulations.

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Table ZA.1 — Correspondence between this European Standard, the Commission regulation n°1302/2014 of 18 November 2014 concerning the technical specification for interoperability relating to the 'rolling stock locomotives and passenger rolling stock' of the rail system in the European Union (published in the Official Journal L 356, 12.12.2014, p.228) and Directive 2008/57/EC"

Corresponding text, articles/§/annexes of the Directive 2008/57/EC	Chapter/§/annexes of the TSI	Clause/ subclauses of this European Standard	Comments
Annex III, Essential requirements 1 General requirements 1.1 Safety Clauses 1.1.1, 1.1.2, 1.1.3, 1.1.4, 1.1.5 1.2 Reliability and availability 1.3 Health Clause 1.3.2 1.4 Environmental protection Clause 1.4.2 1.5 Technical compatibility 2 Requirements specific to each subsystem 2.4 Rolling stock 2.4.1 Safety §3 2.4.2 Reliability and availability 2.4.3 Technical compatibility §3	4.2 Functional and technical specification 4.2.4 Braking 4.2.4.1General 4.2.4.2Main functional and safety requirements 4.2.4.3 Type of brake system 4.2.4.4 Brake command 4.2.4.5Braking performance 4.2.4.6Wheel rail adhesion profile - Wheel slide protection system 4.2.4.7 Dynamic brake - Braking system linked to traction system 4.2.4.8 Braking system independent of adhesion conditions 4.2.4.9 Brake state and fault indication 4.2.4.10 Brake requirements for rescue purposes 4.2.10 Fire safety and evacuation 4.2.10.4 Requirements related to emergencies §4.2.10.4.4 Running capability	The whole standard	

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Table ZA.2 — Correspondence between this European Standard, the the Commission regulation No 1303/2014 of 18 November 2014 concerning the technical specification for interoperability relating to 'safety in railway tunnels' of the rail system of the European Union (published in the *Official Journal L 356, 12.12.2014, p.394*) and Directive 2008/57/EC"

Corresponding text, articles/§/annexes of the Directive 2008/57/EC	Chapter/§/annexes of the TSI	Clause/ subclauses of this European Standard	Comments
Annex III, Essential requirements 1 General requirements 1.1 Safety Clauses 1.1.1, 1.1.2, 1.1.3, 1.1.4, 1.1.5 1.2 Reliability and availability 1.3 Health Clause 1.3.2 1.4 Environmental protection Clause 1.4.2 1.5 Technical compatibility 2 Requirements specific to each subsystem 2.4 Rolling stock 2.4.1 Safety §3 2.4.2 Reliability and availability 2.4.3 Technical compatibility §3	4.Characterisation of the subsystem 4.2.Functional and technical specifications of subsystem 4.2.3 Subsystem rolling stock 4.2.3.3 Requirements related to emergencies §4.2.3.3.4 Running capability	5.1.2 Fire protection 5.1.10 operation in very long tunnel	This TSI refers to Requirements of the TSI "Loc & Pass" clause 4.2.10.4.4.

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WARNING 1 — Presumption of conformity stays valid only as long as a reference to this European Standard is maintained in the list published in the Official Journal of the European Union. Users of this standard should consult frequently the latest list published in the Official Journal of the European Union.

WARNING 2 — Other Union legislation may be applicable to the products falling within the scope of this standard.