



NSAI
Standards

Irish Standard
I.S. EN 14198:2016+A2:2021

Railway applications - Braking - Requirements for the brake system of trains hauled by locomotives

I.S. EN 14198:2016+A2:2021

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NSAI
1 Swift Square,
Northwood, Santry
Dublin 9

T +353 1 807 3800
F +353 1 807 3838
E standards@nsai.ie
W NSAI.ie

Sales:
T +353 1 857 6730
F +353 1 857 6729
W standards.ie

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National Foreword

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EUROPEAN STANDARD

EN 14198:2016+A2

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English Version

Railway applications - Braking - Requirements for the brake system of trains hauled by locomotives

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concernant le système de freinage des trains tractés
par locomotive

Bahnwendungen - Bremsen - Anforderungen an die
Bremsausrüstung lokbespannter Züge

This European Standard was approved by CEN on 5 August 2018 and includes Amendment 2 approved by CEN on 12 April 2021.

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EN 14198:2016+A2:2021 (E)

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EN 14198:2016+A2:2021 (E)**European foreword**

This document (EN 14198:2016+A2:2021) 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of an identical text or by endorsement, at the latest by November 2021, and conflicting national standards shall be withdrawn at the latest by November 2021.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 includes Amendment 1 approved by CEN on 2018-08-05.

This document includes Amendment 2 approved by CEN on 2021-04-12.

This document supersedes ^{A2} EN 14198:2016+A1:2018 ^{A2}.

The start and finish of text introduced or altered by amendment is indicated in the text by tags ^{A1} ^{A1}, ^{A2} ^{A2}.

^{A2} This document has been prepared under a standardization request addressed to CEN by the European Commission, and it aims to support essential or other requirements of EU Directive(s) or Regulation(s).

For relationship with EU Directive(s) or Regulation(s), see informative Annex ZA, which is an integral part of this document. ^{A2}

^{A1} *deleted text* ^{A1}

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1 Scope

This European Standard specifies basic requirements for the braking of trains hauled by locomotives:

- For trains hauled by locomotives and intended for use in general operation each vehicle is fitted with the traditional brake system with a brake pipe compatible with the UIC brake system.

NOTE This ensures technical compatibility of the brake function between vehicles of various origins in a train (see 5.4).

- For trains hauled by locomotives and intended for use in fixed or predefined formation, the requirements on the vehicle and the train are necessary. In the case of a UIC brake system, this standard applies; if not, the EN 16185 series or the EN 15734 series applies.

If concerned, the UIC brake architecture described in this standard (see 5.4) can be used for brakes for multiple unit train and high speed trains and urban rail described in the EN 13452 series, the EN 16185 series and the EN 15734 series.

This European Standard also takes into account electrical and electronic control functions and additional brake systems like dynamic brakes and adhesion independent brakes.

The brake system requirements, which are specific for on-track machines are set out in EN 14033-1.

This European Standard does not apply to Urban Rail rolling stock braking system, which is specified by EN 13452-1.

2 Normative References

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 286-3, *Simple unfired pressure vessels designed to contain air or nitrogen - Part 3: Steel pressure vessels designed for air braking equipment and auxiliary pneumatic equipment for railway rolling stock*

EN 286-4, *Simple unfired pressure vessels designed to contain air or nitrogen - Part 4: Aluminium alloy pressure vessels designed for air braking equipment and auxiliary pneumatic equipment for railway rolling stock*

EN 837-1:1996, *Pressure gauges - Part 1: Bourdon tube pressure gauges - Dimensions, metrology, requirements and testing*

EN 854, *Rubber hoses and hose assemblies - Textile reinforced hydraulic type - Specification*

EN 10220, *Seamless and welded steel tubes - Dimensions and masses per unit length*

EN 10305-4, *Steel tubes for precision applications - Technical delivery conditions - Part 4: Seamless cold drawn tubes for hydraulic and pneumatic power systems*

EN 10305-6, *Steel tubes for precision applications - Technical delivery conditions - Part 6: Welded cold drawn tubes for hydraulic and pneumatic power systems*

EN 13749:2011, *Railway applications - Wheelsets and bogies - Method of specifying the structural requirements of bogie frames*

EN 14478, *Railway applications - Braking - Generic vocabulary*

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